

Panayote (Panos) M. Pardalos

Distinguished Professor

Director, Center for Applied Optimization

Department of Industrial and Systems Engineering

303 Weil Hall, University of Florida, Gainesville, FL 32611-6595

Email: pardalos@ufl.edu

Fax:(352)392-3537, Phone:(352)294-7718 ext 2017

WWW home page: <http://www.ise.ufl.edu/pardalos>

Affiliated Faculty of Computer & Information Science & Engineering Department

Biomedical Engineering Department, McKnight Brain Institute, University of Florida Informatics Institute,
the Genetics Institute and Warren B. Nelms Institute

PERSONAL DATA

Nationality: Greek (Naturalized citizen of the USA)

July 2021: H-index = 105, Erdős number =2**ACADEMIC AWARDS**

- 2021 Foreign Member of the Academia Europaea
- 2019 Distinguished Alumni Award, Computer Science & Engineering, University of Minnesota
- 2019 Member of the Academic Board of The University of Naples “Parthenope”, Italy
- 2018-19 Humboldt Research Award
- 2018-21 University Term Professorship
- 2017 University of Florida Chapter Sigma Xi Senior Faculty Research Award for 2017
- 2016 Fellow of the American Institute for Medical and Biological Engineering (AIMBE).
- 2015 EUROPT Fellow.
- 2010 Advisory Board member, International Society of Global Optimization.
- 2014 Distinguished International Professor by the Chinese Minister of Education, (May 2014).
- 2013 Constantin Carathéodory Prize, (July 2013).
- 2013 EURO Gold Medal (EGM) (July 1 2013).
- 2013 Honorary Professor of Anhui University of Sciences and Technology, China (July 2013).
- 2013 Award from the International Conference “Numerical Computations: Theory and Algorithms” for outstanding scientific achievements in the field of Optimization (June 2013, Italy).
- 2013 Elizabeth Wood Dunlevie Honors Term Professor for 2013-2014, University of Florida.
- 2013 Medal (in recognition of broad contributions in science and engineering) of the University of Catania, Italy.

- 2012 Honorary Doctor of Science Degree, Wilfrid Laurier University, Canada.
- 2012 Grant of the Russian Government for the state support of scientific research conducted under the guidance of leading scientists in Russian universities.
- 2011 Scientific advisor of the Laboratory of Algorithms and Technologies for Network Analysis at the National Research University, Higher School of Economics (Moscow-Nizhny Novgorod).
- 2010 President, International Society of Global Optimization.
- 2010 Honorary Professor, Graduate School of Information Technology & Mathematical Sciences, University of Ballarat, Australia.
- 2009 UF 2009 International Educator Award.
- 2009 “Roberto D. Galvao Prize” best paper award (“A hybrid genetic algorithm for road congestion minimization,” In the XLI Symposium of the Brazilian Operational Research Society, Porto Seguro, Brazil, September 2009).
- 2008 Degree of Honorary Doctor, V.M. Glushkov Institute of Cybernetics of The National Academy of Sciences of Ukraine.
- 2008 University of Florida Research Foundation Professorship.
- 2007 Senior Fulbright Specialist Award (July 2007).
- 2007 UF Doctoral Dissertation Advisor/Mentoring Award.
- 2006 Fellow of INFORMS (Institute of Operations Research and the Management Sciences).
- 2005 Degree of Honorary Doctor, N.I. Lobachevski State University of Nizhni Novgorod, Russia.
- 2005 Honorary Member of the Mongolian Academy of Sciences.
- 2005 Advisory board member of the Centre for Optimisation and Its Applications, Cardiff University, UK.
- 2004 Fellow of AAAS (American Association for the Advancement of Science).
- 2004 “The William Pierskalla Best Paper Award” for research excellence in health care management science, Institute for Operations Research and the Management Sciences (INFORMS).
- 2003 Foreign Member of the “National Academy of Sciences of Ukraine”
- 2003 Outstanding Professional and Academic Titles in 2002, Handbook of Applied Optimization, Honorable Mention, Association of American Publishers
- 2003 Outstanding Faculty Award, ISE Department.
- 2002 Outstanding Faculty Award, ISE Department.
- 2001 2001 Greek National Award and Gold Medal for Operations Research.
- 2001 Outstanding Faculty Award, ISE Department .
- 2000 Foreign Member “Petrovskaya Academy of Sciences and Arts”, Russia.
- 1999 Foreign Member “Lithuanian Academy of Sciences” .

- 1998 Foreign Associate Member “Reial Acadèmia de Doctors”, Spain.
- 1998 University of Florida Research Foundation Professorship.
- 1999 Outstanding Faculty Award, ISE Department.
- 1994 Obermann Faculty Fellowship, University of Iowa Center for Advanced Studies.
- 1991 IBM Achievement Award.
- 1984 Doctoral Dissertation Fellowship.
- 1983 “Excellent Performance in Ph.D. Qualifying Exam”
Awarded by the Computer Science Department for excellent performance in the
Written Preliminary Qualifying Exam for the Ph.D. program.
- 1972–77 Fellowships awarded by the Greek Government.

EDUCATION

- 09/1978 — **Ph.D.** in Computer and Information Sciences
07/1985 University of Minnesota, Minneapolis
Ph.D. Thesis Advisor: J.B. Rosen
- 08/1977 — **M.S.** in Mathematics and Computer Science
08/1978 Clarkson University, Potsdam NY
- 09/1972 — **B.S.** in Mathematics
06/1977 Athens University, Greece

RESEARCH INTERESTS

Global Optimization and Applications, Networks, Design and Analysis of Computer Algorithms, Computational Neuroscience, Parallel Computing in Mathematical Programming, Optimization in Biomedical Engineering, Telecommunications, Supply Chain, E-commerce, and Financial Engineering, Information Theory and Control, Massive Datasets and Data Mining, Cooperative Systems, Scientific Computing, Software Design and Development.

MEDIA CITATIONS

- Highly Cited Greek Scientists (<http://www.highlycitedgreekscientists.org/>)
- Most cited authors in Computer Science (<http://citeseer.nj.nec.com/allcited.html>)
- Interview in the Newsletter of the European Mathematical Society (March 2010).
- Medical Devices and Diagnostic Industry, April 2008, “Variety Could Be the Key to Neurostimulation”
- Interview about research in Epilepsy in the newspaper “Thessalia” (July 6 2003)
- The Optimization Research Bridge (ORB) Newsletter (Issue 8, December 2002), “Interview with Panos Pardalos” (<http://www.ballarat.edu.au/itms/orb/issue8.html>)
- The Florida Engineer, Summer 2002
(<http://www.eng.ufl.edu/home/pubs/mag/02sum/mag2/optimiation.htm>)

- New York Times (February 20, 2001), “Epileptic Seizures Could Be Predictable”
- Hmerissia, Greek Economic Daily Newspaper (<http://www.imerissia.gr/>), Febr. 5, 2001 “E-commerce the focus of the 21th Century (interview)”
- The Australian (Science & Technology October 21-22, 2000 - p.15), “Wartime Move Now a Data Hero (interview)” (<http://optimization.cqu.edu.au/press.html>)
- American Scientist (January-February 2000, Volume 88, No. 1), “Computing Science Graph Theory in Practice: Part I by Brian Hayes” (<http://www.sigmaxi.org/amsci/issues/comsci00/compsci2000-01.html>)
- SIAM NEWS (Vol. 23, No. 3 April 1999), “Massive Graphs Pose Big Problems (by B. Cipra)”.

EXPERIENCE AND JOB HISTORY

- 2014 — Paul and Heidi Brown Preeminent Professor in Industrial and Systems Engineering,
present University of Florida
- 2005 — Distinguished Professor, Department of Industrial and Systems Engineering,
present University of Florida
- 1996 — Professor, Department of Industrial and Systems Engineering, University of Florida
2005
- 09/1997 — Visiting Fellow, Princeton University
08/1998
- 07/1997 — Guest Professor, Linköping Institute of Technology, Sweden
08/1997
- 1991 — Associate Professor, Department of Industrial and Systems Engineering, University
1996 of Florida
- 1994 — Director, Center for Applied Optimization, University of Florida
present
- 05/1994 — Visiting Professor, Inst. f. Statistik, OR und Computerverfahren, University of
06/1994 Vienna, Austria
- 04/1994 — Research Visitor DIMACS (Supported from the Center for Discrete Mathematics
05/1994 and Theoretical Computer Science)
- 1993 — Elected Full Professor, Technical University of Crete, Greece
1994

- 05/1993 — Research Visitor DIMACS (Supported from the Center for Discrete Mathematics and Theoretical Computer Science)
06/1993
- 05/1992 — University of Trier, Germany [Supported from the Deutsche Forschungsgemeinschaft
06/1992 (DFG) (German Science Foundation)].
- 1985 — Assistant Professor, Computer Science Department, The Pennsylvania State
1991 University
- 04/1998 Taught a postgraduate course on “Topics in Combinatorial Optimization”, University of The Aegean, Greece.
- 09/1978 — Graduate Teaching Assistant and Research Assistant, University of Minnesota
06/1985

PROFESSIONAL ACTIVITIES

Journals:

Associate Editor of the Journal “Frontiers in Applied Mathematics and Statistics”.

Editorial Board Member of the Journal “Energies”, MDPI.

Editorial Board Member of the Journal “Discrete Mathematics, Algorithms and Applications”, World Scientific.

Editor-in-Chief of the Journal “Energy Systems”, Springer.

Co-Editor-in-Chief of the “Computational Management Science”, Springer.

Section Editor of “SpringerPlus, A Springer Open Journal”, Springer.

Editor-in-Chief from 1993-2013, Advisory Editor of the “Journal of Global Optimization”, Springer.

Editor-in-Chief 2007-2013, Founding Editor of “Optimization Letters”, Springer.

Member of the Editorial Council of the Journal “Cybernetics and System Analysis”, Springer.

Associate Editor of the Journal “Optimization and Engineering”, Springer.

Associate Editor of the Journal “Optimization Methods and Software”, Taylor & Francis.

Associate Editor of the Journal “Computational Optimization and Applications”, Springer.

Associate Editor of the Journal “Combinatorial Optimization”, Springer.

Associate Editor of the Journal “Informatica”, Institute of Mathematics and Informatics.

Associate Editor of the Journal “Environmental Modelling & Assessment”, Springer.

Associate Editor of the “Journal of Optimization Theory and Applications”, Springer.

Member of the Advisory Board of the Journal “Decisions in Economics and Finance”, Springer.

Member of the Advisory Board of the Journal “Fuzzy Optimization and Decision Making”, Springer.

Member of the Advisory Board of the “OR Transactions”.

Member of the Advisory Board of “Operational Research” (The Scientific Journal of the Hellenic

Operational Research Society).

Associate Editor of “Computational Statistics and Data Analysis”, Elsevier.

Associate Editor of the “Journal of Concrete and Applicable Mathematics (JCAAM)”, NOVA Publishing Corporation.

Member of the Editorial Council of the Journal “Computational and Applied Mathematics”.

Associate Editor of “Computer Science and Information Systems”, (published by ComSIS Consortium).

Member of the Editorial Board of the “Journal of Industrial and Management Optimization”, (published by the American Institute of Mathematical Sciences).

Member of the Editorial Board of the Electronic Journal “Discrete Mathematics and Theoretical Computer Science”, (<http://dmtcs.thomsonscience.com>).

Member of the Editorial Board of the “International Journal of Operational Research (IJOR)”, Inderscience Publishers, Geneva (Switzerland).

Member of the Editorial Board of the “International Journal of Computational Science and Engineering (IJCSE)”, Inderscience Publishers, Geneva (Switzerland).

Member of the Editorial Board of the “Journal of Computational Optimization in Economics and Finance,” Nova Science Publishers.

Member of the Editorial Board of “The Journal of Financial Decision Making ,” Springer.

Honorary Member of the Editorial Board of “The International Journal of Mathematics and Computers in Simulation,” NAUN.

Member of the Editorial Board of the “International Journal of Multicriteria Decision Making (IJM-CDM)”, Inderscience Publishers, Geneva (Switzerland).

Member of the International Advisory Board of the “International Journal of Agricultural and Environmental Information Systems (IJAEIS)”, IGI Publishers.

Member of the Editorial Board of the “Journal of Biomedical Science and Engineering (<http://www.scirp.org/journal>)”, Scientific Research Publishing, USA.

Member of the Advisory Editorial Board of the Journal of “Computational Social Networks,” (<http://www.springer.com>) Springer.

Member of the Editorial Board of the “Minimax Theory and its Applications (<http://www.heldermann.de/MTA/>)”, Heldermann Verlag.

Associate Editor of the “International Journal of Applied Metaheuristic Computing (IJAMC)”,

(<http://www.igi-global.com/journal/international-journal-applied-metaheuristic-computing/1139>).

Member of the International Advisory Board of the “International Journal of Automation and Computing”, Springer. (<http://www.springer.com/engineering/robotics/journal/11633>)

Associate Editor of the “International Journal of Sustainable Agricultural Management and Informatics”, Inderscience Publishers.

Member of the Advisory Board of “Patterns”.

Associate Editor of “Advances in the Theory of Nonlinear Analysis and its Applications” (<https://dergipark.org.tr/en/pub/atnaa/board>)

Editorial Board Member of the “International Journal of Management Science and Engineering Management” (www.tandfonline.com/action/journalInformation?show=editorialBoard&journalCode=tmse20)

Editorial Board Member of the journal “Annals of Mathematics and Artificial Intelligence” (Springer).

Book Series:

Book Series Editor, “Optimization and Its Applications”, Springer.

Book Series Editor, “Energy Systemes”, Springer.

Book Series Editor, “Springer Briefs in Optimization”, Springer.

Book Series Editor, “Nonconvex Optimization and Applications”, Springer.

Book Series Editor, “Applied Optimization”, Springer.

Book Series Editor, “Combinatorial Optimization”, Springer.

Book Series Editor, “Massive Computing”, Springer.

Book Series Editor, “Computers and Operations Research”, World Scientific Publishing Co.

Book Series Editor, “Applied Discrete Mathematics and Theoretical Computer Science”, Science Press.

Book Series - Member of the Editorial Board, “New Dimensions in Networks”, Edward Elgar Publishing.

Award Committees and Societies:

Kyoto Prize Nominating Committee

Board Member of BIOMAT (BIOMAT Institute for Advanced Studies of Biosystems, Brazil).

Permanent Member of DIMACS (NSF Center for Discrete Mathematics and Theoretical Computer Science).

Member of the 1998 “INFORMS/CSTS Prize” Committee.

Member of ACM, SIAM, Mathematical Programming Society, AMS, INFORMS, New York Academy of Sciences.

Member of the Farkas Prize Committee (INFORMS).

Member of The Khachiyan Prize for Life-time Accomplishments in Optimization (INFORMS).

ADMINISTRATIVE SERVICE

Departmental committees: Graduate committee, Committee for Sustained Performance Evaluation, Faculty and Chairman search committees

College committees: Honors and Awards Committee, Graduate Council, University Senate, College Personnel Board (Tenure & Promotion Committee), College PEP Selection Committee, UFRFP award committee, Commencement Marshal, International Affairs Committee, BME Chairman Search Committee, Faculty Recognition and Awards Committee, Participating Faculty of the Center for Greek Studies.

TEACHING EXPERIENCE

I have taught the following graduate and undergraduate courses: Integer Programming, Linear Programming and Network Optimization, Nonlinear Optimization, Global Optimization, Data Structures, Analysis of Algorithms, Parallel Algorithms, Software Testing, Discrete Mathematics and Graph Theory, Data Mining, Numerical Methods, Matrix Computations, Automata Theory, and Complexity Theory. In addition, I have taught several seminars on special topics.

Ph.D. STUDENTS SUPERVISED:

Graduated:

- Gregory Rodgers, Algorithms for Unconstrained Quadratic 0-1 Programming and Related Problems on Contemporary Computer Architectures (Spring 1989).
- Geoffrey M. Guisewite, Concave-Cost Network Flow Problems (Summer 1991).
- Chi-Geun Han, Solving Large-Scale Nonlinear Programs Using Interior-Point Algorithms (Summer 1991).
- Kowtha Murthy, Algorithms for Solving the Quadratic Assignment Problem (Fall 1991).
- Yong Li, Heuristic and Exact Algorithms for the Quadratic Assignment Problem (Fall 1992).
- Nainan Koor, Algorithms for the Least Distance Problem (co-advisor: P. Berman, Fall 1992).
- Bassam Khoury, The Steiner Problem in Graphs (co-advisor: D. Hearn, Summer 1993).
- Luana Gibbons, Algorithms for Solving the Maximum Clique Problem (co-advisor: D. Hearn, Summer 1994).
- Leonidas Pitsoulis, Nonlinear Assignment Problems (Fall 1998).
- Duk Won Kim, Nonconvex Network Flow Problems (Summer 1999).
- Paveena Chaovalitwongse, Multi-echelon Multi-Commodity Transportation and Inventory Control Problems (Fall 2000).

- Sandra Duni Eksioglu, Optimizing Integrated Production, Inventory and Distribution Problems in Supply Chains (Summer 2002).
- Burak Eksioglu, Network Algorithms for Supply Chain Optimization Problems (Summer 2002).
- Sergiy Butenko, Maximum independent set and related problems with applications (Summer 2003).
- Wanpracha Chaovaitwongse, Optimization and Dynamical Approaches in Nonlinear Time Series Analysis with Applications in Bioengineering (Summer 2003).
- Eduardo Pasiliao, Algorithms for Multidimensional Assignment Problems (Summer 2003).
- Carlos Oliveira, Optimization in Telecommunications (Summer 2004).
- Don Grundel, Probabilistic Analysis of Nonlinear Assignment Problems (Summer 2004).
- Robert Murphy, Integrated Assignment and Path Planning (Spring 2005).
- Vladimir Boginski, Optimization and Data Mining Algorithms (Summer 2005).
- Claudio N. Menesses, Combinatorial Approaches for Problems in Bioinformatics (Fall 2005).
- Antony Okafor, Entropy Based Techniques with Applications in Data Mining (Fall 2005).
- Oleg Prokopyev, Nonlinear Integer Optimization with Applications in Biomedicine (Summer 2006).
- Sandeep P. Nair, Brain Dynamics and Control with Applications in Epilepsy (BME, Fall 2006).
- Michael J. Hirsch, GRASP-based Heuristics for Continuous Global Optimization Problems (Fall 2006).
- Onur Seref, New Optimization Methods and Applications in Kernel-based Machine Learning (Fall 2006).
- Michelle A. Ragle, Computational Methods for the Design and Selection of Hybridization Probes (Spring 2007).
- Altannar Chinchuluun, Topics in Multiobjective Optimization (Summer 2007).
- Stanislav Busygin, Combinatorial Optimization Techniques in Data Mining (Summer 2007).
- Clayton Commander, Optimization Problems in Telecommunications with Military Applications (Summer 2007).
- Alla Kammerdiner, Statistical Methods in Data Mining of Brain Dynamics, (Spring 2008).
- Michael Andrew Bewernitz, Data Mining and Time Series Analysis of Brain Dynamical Behavior with Applications in Epilepsy, (BME, Spring 2008).
- Chang-Chia (Jeff) Liu, Brain Dynamics, System Control and Optimization Techniques with Applications in Epilepsy (BME, Summer 2008).

- **O. Erhun Kundakcioglu**, Combinatorial and Nonlinear Optimization Techniques in Pattern Recognition with Applications in Healthcare (Summer 2009).
- **Oleg Shylo**, New Tools for Large-scale Combinatorial Optimization Problems (Summer 2009).
- **Ashwin Arulselvan**, Network Model for Disaster Management (Summer 2009).
- **Qipeng(Phil) Zheng**, Stochastic Integer Optimization and Applications in Energy Systems (Summer 2010).
- **Nikita Boyko**, New Approaches to Robust Optimization with Applications (Summer 2010).
- **Steffen Rebennack**, A Unified State-Space and Scenario Tree Framework for Multi-Stage Stochastic Optimization: An application to emission-constrained hydro-thermal scheduling (Summer 2010).
- **Donatella Granata**, Models and Algorithms for new Network Flow Problems (Universitaid Roma La Sapienza, Italy - Spring 2011).
- **Ingrida Steponavice**, Algorithms for Uniform Distribution of Solutions over the Pareto Set, and their Applications in Risk Management (Vytautas Magnus University, Lithuania - Spring 2011).
- **Jui-Hong (Vic) Chien**, EEG Analysis of Brain Dynamical Behavior with Applications in Epilepsy (BME, Spring 2011).
- **Jicong Zhang**, Optimization and Data Mining in Healthcare: Patients Classification and Epileptic Brain State Transition Study Using Dynamic Measures, Pattern Recognition and Network Modeling (Spring 2011).
- **Neng Fan**, Combinatorial and Nonlinear Optimization Methods with Applications in Data Clustering, Biclustering and Power Systems (Summer 2011).
- **Petros Xanthopoulos**, Robust Data Mining Techniques with Application in Biomedicine and Engineering (Summer 2011).
- **Vera Tomaino**, Data mining and optimization in cancer research (University Magna Graecia of Catanzaro, Italy - (Summer 2011).
- **Masoud Zarepisheh**, Transformation of Multiobjective Optimization Problems with Natural and Lexicographical Ordering (Amirkabir University of Technology (Tehran Polytechnic), Iran - (Summer 2011).
- **Alexey Sorokin**, Modeling and Optimization Techniques for Ensuring Resilience in Heterogeneous Networked Systems - (Summer 2012).
- **Hongsheng Xu**, Electricity Blackout and Power Security: Survey and Analysis - (Summer 2012).
- **Syed Mujahid**, Optimization Based Robust Methods in Data Analysis with Applications to Biomedicine and Engineering - (Summer 2013).
- **Dmytro Korenkevych**, Data Mining Methods with Applications in Biomedicine - (Summer 2013).
- **Michael B. Fenn**, A Raman Spectroscopic-based Platform Using Advanced Data Mining Methods for in-Situ Cancer Cell Classification and Characterization - (Summer 2013).

- Vijay Pappu, Supervised machine learning models for feature selection and classification on high dimensional datasets - (Fall 2013).
- Chrysafis Vogiatzis, Exact and Heuristic Approaches to Solving Sensor Placement, Routing, and Tracking Problems - (Summer 2014).
- Jose L. Walteros, Integer programming models for solving critical element detection and data association problems - (Summer 2014).
- Ximing Wang, Machine Learning Optimization Models With Data Uncertainties - (Summer 2015).
- Jiaxing Pi, Optimization and Data Analysis in Biomedicine - (Summer 2016)
- Xueqi He, Exact and Heuristic Approaches for Integer Knapsack Problems - (Summer 2016)
- Anton Kocheturov, Novel Methods for Multivariate Time Series Analysis - (Summer 2018)
- Maude Josée Blondin, Hybrid Optimization Method Based on Metaheuristic for Control Tuning for Multi-constraint and Nonlinear Systems with Anti-windup (co-advisor: Pierre Sicard - September 2018)
- Pierre Miasnikof, Subgraph Density and Graph Clustering (co-advisor: Lawryshyn, Yuri - Nov 2019) <https://tspace.library.utoronto.ca/handle/1807/97609>
- Gianfranco Lombardo, Neural network embedding: representation learning and latent knowledge extraction for data mining applications (co-advisor: Agostino Poggi - Spring 2021)
- Arsenios Tsokas, Network Similarity Applications in Robustness and in Clinical Course Extraction - (Spring 2021)
- Georgios Adosoglou, Neural Network Embedding Methods for Mining Corporate Report Data - (Summer 2021)
- Seonho Park Combining Variational Approaches with Deep Learning and its Applications - (Summer 2021)
- Farnaz Babaie Developing Patient-Centric Learning Models for Improving Early Identification and Intervention for Acute-Care Patients - (Summer 2021)
- Bijan Taslimi Novel Models in Mixed Integer Programming and Data-Driven Optimization - (Summer 2021)

Updated information can be found in <https://www.mathgenealogy.org/id.php?id=17015>

Current Ph.D. Students:

- Meserret Karaça (Expected date of graduation: 2022)

ENGINEERING DEGREE STUDENTS:

- Robert Murphey, “Multigraphs, Weighted Graphs and the Frequency Assignment Problem” (Graduated Fall 1997).

- Eduardo Pasiliao, “A Greedy Randomized Adaptive Search Procedure for the Multi-Criteria Radio Link Frequency Assignment Problem” (Graduated Winter 1999).
- Paul Francis Thottakkara, “On Feature Selection in Data Mining” (Graduated Summer 2013).

EXTERNAL Ph.D. EXAMINER / ADVISOR (International):

- Served as an external examiner (May 1995) of the PhD dissertation by Saied Ghannadan from the Linkoping Institute of Technology, Sweden
- Served as an external examiner (July 1996) of the PhD dissertation by Michael Nast from the University of Trier, Germany
- Served as an external examiner (February 1997) of the PhD dissertation by Wayne John Pullan from the Central Queensland University, Rockhampton Australia
- Served as an external examiner (July 1998) of the PhD dissertation by Dimitri Pourbaix from the University of Liege, Belgium
- Served as an external examiner (May 2000) of the PhD dissertation by Liu Ju from the City University of Hong Kong
- Served as an external examiner (March 2002) of the PhD dissertation by George Pappas from Brunel University, England
- Served as an external examiner (August 2003) of the PhD dissertation by Galina A. Korotkikh from Central Queensland University (Australia).
- Served as an external examiner (May 2005) of the PhD dissertation by Zari Dzalilov from The University of Ballarat (Victoria, Australia).
- Served as an external examiner (May 2006) of the PhD dissertation by Panos Pappas from The Department of Computing, Imperial College of Science, Technology & Medicine (London, England).
- Served as an external examiner (June 2006) of the PhD dissertation by Gary Saunders from The University of Ballarat (Victoria, Australia).
- Served as an external examiner (March 2007) of the PhD dissertation by Laura Di Giacomo from The University of La Sapienza (Rome, Italy).
- Served as PhD co-advisor with Dr. Geraldo Robson Mateus (May 2007) of the PhD dissertation by Martín Gómez Ravetti, Universidade Federal de Minas Gerais, Belo Horizonte (Brazil), Thesis: “Algorithms for Scheduling Problems with Parallel Machines and Sequence Dependent Setups.”
- Served as an external examiner (September 2009) of the PhD dissertation by Angelos Tsoukalas from The Department of Computing, Imperial College of Science, Technology & Medicine (London, England).
- Served as an external examiner (April 2010) of the PhD dissertation by Oleg Sysoev from the Linkoping Institute of Technology, Sweden

- Served as PhD co-advisor with Dr. Antanas Ziliskas (January 2011) of the PhD dissertation by Ingrida Steponavice, Vytautas Magnus University (Lithuania) Thesis: “Algorithms for Uniform Distribution of Solutions over the Pareto Set, and their Applications in Risk Management.”
- Served as an external examiner (May 20, 2016) of the PhD dissertation by Konstantinos Xylogiannopoulos from the Department of Computer Science, University of Calgary, Canada
- Served as an external examiner (May 31, 2016) of the PhD dissertation by Yixin Zhao from the Linkoping Institute of Technology, Sweden.
- Served as an external examiner (Oct 2, 2016) of the PhD dissertation by Muammad Rizwan Tanweer from Nanyang Technological University, Singapore
- Served as an external examiner (Nov 3, 2016) of the PhD dissertation by Dimitrios Nerantzis from the Imperial College, England

EXTERNAL Ph.D. EXAMINER / ADVISOR (USA):

- Served as an external examiner (April 2016) of the PhD dissertation by Rodrigo Franco Toso from the Computers Science Department, Rutgers University.

M.S. STUDENTS (with Thesis) SUPERVISED:

- Somesh Jha, Some Results on Quadratic Zero-One Programming (Fall 1987).
- Chut Lam, Convex Hull and Separation Problems in Computational Geometry (Fall 1987).
- Mary Wei Yi Bi, Case Studies on Quadratic Zero-One Programming (Spring 1988).
- Evangelos Triantaphyllou, A Minimization Approach to Membership Evaluation in Fuzzy Sets and Error Analysis (Spring 1988).
- Chi-Geun Han, Local Search Algorithms for Large Scale Nonconvex Problems (Summer 1988).
- Haralambos Sahinoglou, Using Branch and Bound to Solve the Complementarity Problem (Summer 1988).
- Chandra S. Rentala, Implementation of a Parallel Algorithm to Find the Connected Components of a Graph (Fall 1988).
- Maria Arzimanoglou, Graph Theoretical approach to Quantitative Structure-Property and Quantitative Structure-Activity Relationship Studies, (P.C. Jurs -Chemistry, co-advisor), Fall 1988.
- James V. Crouse, An Algorithm for Solving the Quadratic Assignment Problem in Parallel on the IBM 3090/400E Vector Multiprocessor (Spring 1989).
- Rajkumar Subramanian, An Algorithm for Solving the Quadratic Zero-One Problem in Parallel on the IBM 3090/600E Vector Multiprocessor (Spring 1989).
- Nisha Desai, An Algorithm for the Maximum Weighted Independent Set Problem, (Spring 1989).
- Yong Li, On the Convex Hull of a Set of Points in R^m , (Summer 1990).

- Byung-Soo Choi, Experiments in Quadratic Integer Programming, (Fall 1990).
- Hrafn Loftsson, Experiments with the Quadratic Assignment Problem (T. Cavalier, -Industrial Eng., co-advisor), Spring 1992.
- Spyros D. A. Antoniou, Solution Sets in Quadratic Bivalent Programming, (Spring 1992).
- Jonas Hasselberg, The maximum clique problem: test generators and computational results, Summer 1992.
- Mattias Sandstrom, Optimization problems arising from portfolio selection models, (Fall 1992).
- Henrik Johansson, Genetic algorithms for the quadratic assignment problem, (Summer 1993).
- Camilla Landen, Graph coloring algorithms, (Fall 1993).
- Leonidas Pitsoulis, Quadratic Assignment Problems, (Summer 1994).
- Thelma Mavridou, The Biquadratic Assignment Problem, (Summer 1995).
- Nils Lidstroem, A Greedy randomized Adaptive Search Procedure for the 3-index Assignment problem (Summer 1996).
- Sara Ericson, A Global Optimization Heuristic for the Maximum Clique Problem (Summer 1997).
- Jonas Rappe, An Exact Parallel Algorithm for the Maximum Clique Problem (Summer 1997).
- Kristoffer Bodvik, Algorithms for Train Scheduling Problems, (Fall 1998).
- Aaron Craig, Pick and Place Sequence Optimization for Electronic Assembly Machinery, (Fall 1998).
- Sierra L. Feitshans, Fast Heuristics for the Multitarget Multisensor Tracking Problem, (Fall 1999).
- Xin Liu, A GRASP for the Frequency Assignment in Mobile Radio Networks, (Fall 1999).
- Marten Ericsson, A genetic algorithm for setting weights in OSPF routing, (Fall 2000).
- Wanpracha Chaovaitwongse, Heuristics for large vehicle routing problems with time windows, (Fall 2000).
- David Paolini, A stochastic Approach to the Frequency Assignment Problem, (Spring 2001).
- Charles W. Werner, Efficient Scheduling of Athletic Competitions by Graph Theory, (Spring 2001).
- Zheng Xu, Data Mining in Electronic Commerce (2002).
- Bruno H. Chiarini, A new algorithm for the triangulation of input-output tables and the linear ordering problem (2004).
- Daniel J. Hurley, A model of neocortical connectivity based on architecture of scale-free networks (BME, Fall 2005).

- Ashwin Arulselvan, Complex Network Assortment and Modeling (Spring 2006).
- Erika J. Short, Local Search Algorithms for the Maximum K-plex problem (Spring 2008).
- Ingrida Radziukyniene, C-GRASP Application to Economic Dispatch Problem (Summer 2010).
- Paul Francis Thottakkara, On Feature Selection in Data Mining (Fall 2013).
- Saravanan Natarajan, Simulation Based Approach to Study the Vulnerability in Electrical Grid (Fall 2013).
- Orestis Panagopoulos, Subspace classification methods for high dimensional datasets (Summer 2013).
- Ioannis Pappas, Data Mining Techniques in Functional Brain Networks (Fall 2014).
- Anil Singh, Short-term Electricity Price Forecasting Models - A Review and Evaluation (FSummer 2015).

VISITING SCHOLARS HOSTED:

- Yasutoshi Yajima, Tokyo Institute of Technology, Japan (1997–1998).
- Tania Querido, Brazil (1998–1999).
- Paola Festa, Universita' degli Studi di Salerno, Italy (1999– 2001).
- Vladimir Shylo, Pavel Knopov, Vitaliy Yatsenko, Tamara Bardadym, and Alexander Golodnikov, Institute of Cybernetics, Kiev (Spring 2000, Spring 2007, and Spring 2010).
- Hongxuan Huang, Tsinghua University, Beijing, China (2000–2001).
- Liang Zhi-an, Inner Mongolia University, Hohhot, P.R.China (2001).
- C.-G. Han, Computer Engineering Dept., Kyung Hee Univ., Korea (2001-2002).
- Boris Goldengorin, University of Groningen, The Netherlands (2013-2015).

UNIVERSITY SCHOLARS PROGRAM STUDENTS:

- Jorge Enrique Rivera, Algorithms for the Maximum Clique Problem (1999).
- George Alex Pantouris, Graph Coloring (2000).
- Marie Lavoro, Electronic Marketplaces and Supply Chain Management (2001).
- Stephanie Soltau, The Importance of E-commerce: Identifying Trends in E-commerce of the Art Industry (2001).
- Robert Eaton, Optimization in Medicine (2002).
- Michelle Guadagna, The Economics of Information (2007).
- Andrew Simons, Computational Neuroscience (2007).

- Sepehr Michael Nasser, Support Vector Regression with Multiple Instance Data (2008).
- Joshua Grasso, Short Term Electricity Price Forecasting in Restructured Energy Markets (2009)
- Michael Garitty, Optimal Wind Farm Design: Case Study for the Midwest of the United States and off shore the East Coast (2009)
- Joseph Portela, Survey on Modeling and Solution Techniques for the Network Transmission Expansion Problem (2009)
- Nawar Alsafar, Simulated Annealing (2009)
- Anna Kantzios, Computational Neuroscience (2010)
- Lochner Miranda R, Network Approached to Analyze the Dynamics of Financial Markets (2018).

STUDENTS WITH HONORS THESIS:

- Andreea Vaduva, Summa cum Laude, An analysis of the healthcare system: Causes of medical errors (2004).
- Laura Silva, Summa cum Laude, Ecommerce: Legal and illegal drugs (2004).
- Nicolas Hamann, Summa cum Laude, Graph theory application to modern-day market (2004).
- David Sada, Magna cum Laude, Optimizing professional baseball strategies using operations research techniques (2004).

Publications by Panos M. Pardalos

BOOKS AUTHORED:

1. **Constrained Global Optimization: Algorithms and Applications**, co-authors: P.M. Pardalos and J.B. Rosen, Springer-Verlag, Lecture Notes in Computer Science 268 (1987).

Book reviews appeared in:

- *SIAM Review Vol. 32, No. 2 (1990), pp. 310 – 312.*
- *Mathematical Reviews 89b: 90191*
- *China Sc. Tech. Review 1 (9) 1988.*
- *Computers and Artificial Intelligence 9 (1990).*
- *Computing Reviews (June 1988), pp. 295–296.*
- *Journal of Information Processing and Cybernetics 10 (1988).*
- *Zbl. Math. 638, 90064, pp. 439-440.*
- *Systems Analysis Modelling Simulation (1989).*
- *Kybernetika Tschechoslowakei 2 (1989).*
- *Mathematics of Computation 1992.*
- *OUTPUT Nr. 11 (1987).*
- *Zeitschrift fur Operations Research Vol 34 (1990).*

2. **Collection of Test Problems for Constrained Global Optimization Algorithms**, co-authors: C.A. Floudas and P.M. Pardalos, Springer-Verlag, Lecture Notes in Computer Science 455 (1990).

Book reviews appeared in:

- *Mathematical Reviews 91m: 90154.*
- *Zbl. Math. 718 (90054), p. 502.*

3. **Topics in Parallel Computing in Mathematical Programming**, co-authors: P.M. Pardalos, A. Phillips and J.B. Rosen, American Math. Society & Science Press, (1992).

Book reviews appeared in:

- *Mathematical Reviews 94d: 90002.*

4. **Introduction to Global Optimization**, co-authors: R. Horst, P.M. Pardalos and N.V. Thoai, Nonconvex optimization and its applications Vol. 3, Kluwer Academic Publishers, (1995).

Book reviews appeared in:

- *Mathematical Reviews 96g: 90001.*
- *Journal of Global Optimization 9 (1996), pp. 219-221.*
- *Interfaces 28 (1998), pp. 133-134.*
- *Journal of the Operational Research Society Vol. 47, No. 7, p. 962.*

5. **Handbook of Test Problems for Local and Global Optimization**, co-authors: C.A. Floudas, P.M. Pardalos, C.S. Adjiman, W.R. Esposito, Z. Gumus, S.T. Harding, J.L. Klepeis, C.A. Meyer, and C.A. Schweiger, **Kluwer Academic Publishers**, (1999).

Book reviews appeared in:

- *Optimization Methods & Software Vol. 14 (2000)*, pp. 241–243.
- *Journal of Global Optimization Vol. 16, No. 3 (2000)*, pp. 299–300.
- *Mathematical Reviews 200h: 90002*.

6. **Introduction to Global Optimization**, Second Edition, co-authors: R. Horst, P.M. Pardalos and N.V. Thoai, **Nonconvex Optimization and its Applications Vol. 48**, **Kluwer Academic Publishers**, (2000).

A Chinese translation of the book has been published by Tsinghua University Press in 2003.

7. **Mathematical Theory of Optimization**, co-authors: DingZhu Du, Panos M. Pardalos and Weili Wu, **Kluwer Academic Publishers**, (2001).

A Greek translation of the book has been published by New Technologies Publications (Athens, Greece) in 2005.

8. **Software Engineering Techniques Applied To Agricultural Systems**, co-authors: Petraq J. Papajorgji and Panos M. Pardalos, **Springer**, (2005).

Book review appeared in:

- *Journal of Optimization Methods and Software Volume 22, Number 2 (2007)*, pp. 361–363.
- *ACM Computing Reviews (2006)*, Review #: CR133260 (0708-0776).

9. **Optimization and Control of Bilinear Systems**, co-authors: Panos M. Pardalos and Vitaliy Yatsenko, **Springer**, (2008).

10. **Data Mining in Agriculture**, co-authors: Antonio Mucherino, Petraq J. Papajorgji and Panos M. Pardalos, **Springer**, (2009).

Book review appeared in:

- *International Journal of Agricultural and Environmental Information Systems Vol. 1 No. 1 (2010)*, pp. 69–72.

11. **Mathematical Aspects of Network Routing Optimization**, co-authors: Carlos Oliveira and Panos M. Pardalos, **Springer**, (2011).

12. **Data Correcting Algorithms in Combinatorial Optimization**, co-authors: Boris Goldenorin and Panos M. Pardalos, **Springer**, (2012).

Book review appeared in:

- *MathSciNet, Mathematical Reviews on the Web MR2978563 (Review) 90-02 (90C27)*.

13. **Robust Data Mining**, co-authors: Petros Xanthopoulos, Panos M. Pardalos, and Theodore B. Trafalis, **Springer**, (2013).

14. **D-Optimal Matrices**, co-authors: Ilias S. Kotsireas, Syed N. Mujahid, and Panos M. Pardalos, **Springer**, (2013).

15. **Cell Formation in Industrial Engineering**, co-authors: Boris Goldengorin, Dmitry Krushinsky, and Panos M. Pardalos, Springer, (2013).
Book review appeared in:
 - *Optimization Letters August 2015, Volume 9, Issue 6, pp. 1259-1262.*
16. **Optimization Approaches for Solving String Selection Problems**, co-authors: Elisa Pappalardo, Panos M. Pardalos, and Giovanni Stracquadanio, Springer, (2013).
17. **Introduction to Numerical Methods and Optimization**, co-authors: Sergiy Butenko; Panos M. Pardalos, Chapman and Hall/CRC, (2014).
18. **Software Engineering Techniques Applied To Agricultural Systems, 2nd Edition**, co-authors: Petraq J. Papajorgji and Panos M. Pardalos, Springer, (2014).
19. **Data Correcting Approaches in Combinatorial Optimization**, co-authors: B. Goldengorin, P.M. Pardalos, Springer, New York, (2012)
20. **Electrical Power Unit Commitment - Deterministic and Two-Stage Stochastic Programming Models and Algorithms**, co-authors: Huang Yuping, Pardalos Panos M., Zheng Qipeng P., Springer, (2017).
21. **Non-Convex Multi-Objective Optimization**, co-authors: Panos M. Pardalos, Antanas Žilinskas, Julius Žilinskas, Springer, (2017).
Book review appeared in:
 - *Optimization Methods and Software Volume 33, 2018 - Issue 2, pp. 416-417*
 - *INTERFACES Vol. 48, No. 4, July-August 2018, pp. 395-397*
22. **Optimization and Management in Manufacturing Engineering**, co-authors: Xinbao Liu, Jun Pei, Lin Liu, Hao Cheng, Mi Zhou, Panos M. Pardalos, Springer, (2017).
Book reviews appeared in:
 - *Journal of Global Optimization volume 73, pages 675-676 (2019)*
 - *Optimization Methods and Software Volume 34, 2019 - Issue 1, pp. 220-223*
23. **Statistical analysis of graph structures in random variable networks**, co-authors: Valery A. Kalyagin, Alexander P. Koldanov, Petr A. Koldanov, Panos M. Pardalos, Springer (2020).
24. **Metaheuristics for Resource Deployment under Uncertainty in Complex Systems**, co-authors: Shuxin Ding, Chen Chen, Qi Zhang, Bin Xin, Panos M. Pardalos, CRC Press (2021), ISBN 9781032065205.
25. **Algorithm Portfolios - Advances, Applications, and Challenges**, co-authors: Souravlias, D., Parsopoulos, K.E., Kotsireas, I.S., Pardalos, P.M., Springer (2021)
26. **Foundations of Blockchain - Theory and Applications**, co-authors: Imteaj, Ahmed, Amini, M. Hadi, Pardalos, Panos, Springer (2021)

PAPERS IN REFEREED JOURNALS:

1. "Global Minimization of Large-Scale Constrained Concave Quadratic Problems by Separable Programming" (with J.B. Rosen), *Mathematical Programming* 34 (1986), pp. 163-174.
2. "Methods for Global Concave Minimization: A Bibliographic Survey" (with J.B. Rosen), *SIAM Review*, Vol 28, No. 3 (1986), pp. 367-379.
3. "An algorithm for a class of nonlinear fractional problems using ranking of the vertices," *BIT Numerical Mathematics* 26 (1986), pp. 392-395.
4. "Global Minimization of Indefinite Quadratic Problems" (with J.H. Glick and J.B. Rosen), *Computing* 39 (1987), pp. 281-291.
5. "Generation of large-scale quadratic programs for use as global optimization test problems," *ACM Transactions on Mathematical Software*, Vol. 13, No. 2 (1987), pp. 133-137.
6. "Bounds for the solution set of linear complementarity problems" (with J. B. Rosen), *Discrete Applied Mathematics* 17 (1987), pp. 255-261.
7. "Checking local optimality in constrained quadratic programming is NP-hard" (with G. Schnitger), *Operations Research Letters* 7, No. 1 (1988), pp. 33-35.
8. "Reduction of Nonlinear Integer Separable Programming Problems" (with J.B. Rosen), *International Journal of Computer Mathematics* Vol. 24 (1988), pp. 55-64.
9. "Global Optimization Approach to the Linear Complementarity Problem" (with J.B. Rosen), *SIAM Journal on Scientific and Statistical Computing* Vol. 9, No. 2 (1988), pp. 341-353.
10. "Quadratic problems defined on a convex hull of points," *BIT Numerical Mathematics* 28 (1988), pp. 323-328.
11. "Enumerative techniques in global optimization," *Operations Research Spektrum* 10 (1988), pp. 29-35.
12. "A Note on a Quadratic Formulation for Linear Complementarity Problems" (with S. Gupta), *Journal of Optimization Theory and Applications* Vol. 57, No. 1 (1988), pp. 197-202.
13. "Linear Complementarity Problems Solvable by Integer Programming," *Optimization* 19 (1988), pp. 467-474.
14. "Parallel search algorithms in global optimization," *Applied Mathematics and Computation* 29 (1989), pp. 219-229.
15. "Modelling and Integer Programming Techniques Applied to Propositional Calculus" (with T. Cavalier and A. Soyster), *Computers and Operations Research* Vol. 17, No.6 (1990), pp. 561-570 (Special issue on Expert Systems).
16. "Parallel branch and bound algorithms for combinatorial optimization" (with X. Li), *Supercomputer* 39 (1990), pp. 23-30.
17. "An exact Algorithm for the Maximum Clique Problem" (with R. Carraghan), *Operations Research Letters* 9 (Nov. 1990), pp. 375-382.
18. "A global optimization approach for solving the maximum clique problem" (with A. Phillips), *International Journal of Computer Mathematics* 33, (1990), pp. 209-216.

19. "Parallel branch and bound algorithms for quadratic zero-one programs on the hypercube architecture" (with G.P. Rodgers), *Annals of Operations Research* 22 (1990), pp. 271-292.
20. "Computational Aspects of a Branch and Bound Algorithm for Quadratic Zero-One Programming" (with G.P. Rodgers), *Computing* 45 (1990), pp. 131-144.
21. "Polynomial time algorithms for some classes of constrained nonconvex quadratic problems," *Optimization* Vol.21, No. 6 (1990), pp. 843-853.
22. "An algorithm for a singly constrained class of quadratic programs subject to upper and lower bounds" (with N. Kovoor), *Mathematical Programming* 46 (1990), pp. 321-328.
23. "Minimum Concave Cost Network Flow Problems: Applications, Complexity, and Algorithms" (with G. Guisewite), *Annals of Operations Research* 25 (1990), pp. 75-100.
24. "The Integer Linear Complementarity Problem" (with A. Nagurney), *International Journal of Computer Mathematics*, Vol. 31, (1990), pp. 205-214.
25. "A Minimization Approach to Membership Evaluation in Fuzzy Sets and Error Analysis" (with E. Triantaphyllou and S.H. Mann), *Journal of Optimization Theory and Applications* 66 (1990), pp. 275-287.
26. "Global Optimization Algorithms for Linearly Constrained Indefinite Quadratic Problems," *Computers & Mathematics with Applications* Vol. 21, No. 6/7 (1991), pp. 87-97.
27. "Global optimization of fractional programming" (with A. Phillips), *Journal of Global Optimization* 1 (1991), pp. 173-182.
28. "Active Constraints, Indefinite Quadratic Programming, and Test Problems" (with W.W. Hager, I.M. Roussos, and H.D. Sahinoglou), *Journal of Optimization Theory and Applications* Vol. 68, No. 3 (March 1991), pp. 499-511.
29. "Quadratic programming with one negative eigenvalue is NP-hard" (with S. Vavasis), *Journal of Global Optimization* 1 (1991), pp. 15-23.
30. "A Class of Linear Complementarity Problems Solvable in Polynomial Time" (with Y. Ye), *Linear Algebra and its Applications* 152 (July, 1991), pp. 3-17.
31. "Algorithms for the solution of quadratic knapsack problems" (with Y. Ye and C.-G. Han), *Linear Algebra and its Applications* 152 (July, 1991), pp. 69-91.
32. "Construction of test problems in quadratic bivalent programming," *ACM Transactions on Mathematical Software* Vol. 17, No. 1 (1991), pp. 74-87.
33. "An Algorithm for Finding a Maximum Weighted Independent Set in an Arbitrary Graph" (with N. Desai), *International Journal of Computer Mathematics* 38 (1991), pp. 163-175.
34. "Graph separation techniques for quadratic zero-one programming" (with S. Jha), *Computers & Mathematics with Applications* Vol. 21, No. 6/7 (1991), pp. 107-113.
35. "Global optimization algorithms for vlsi compaction problems" (with F.A. Al-Khayyal), *AJSE* Vol. 16, No. 25 (1991), pp. 335-339.
36. "Algorithms for the single-source uncapacitated minimum concave-cost network flow problem" (with G. Guisewite), *Journal of Global Optimization* Vol. 1, No. 3 (1991), pp. 245-265.

37. "Global search algorithms for minimum concave cost network flow problem" (with G. Guisewite), *Journal of Global Optimization* Vol. 1, No. 4 (1991), pp. 309-330.
38. "Computational techniques for solving global optimization problems," *Investigacao Operacional* Vol. 11, Num. 1 (1991), pp. 3-30.
39. "Global optimization of concave functions subject to separable quadratic constraints: An application to bilevel programming" (with F.A. Al-Khayyal and R. Horst), *Annals of Operations Research* 34 (1992), Special Volume on Hierarchical Optimization, pp. 125-147.
40. "A Branch and Bound Algorithm for the Maximum Clique Problem" (with G.P. Rodgers), *Computers and Operations Research* Vol. 19, No. 5 (1992), pp. 363-375.
41. "Complexity of uniqueness and local search in quadratic 0-1 programming" (with S. Jha), *Operations Research Letters* 11 (1992), pp. 119-123.
42. "Implementation of interior point algorithms for some entropy optimization problems" (with C.-G. Han and Y. Ye), *Optimization and Software* 1 (1992), pp. 71-80.
43. "Generating quadratic assignment test problems with known optimal permutations" (with Y. Li), *Computational Optimization and Applications* Vol. 1, No. 2 (1992), pp. 163-184.
44. "Open questions in complexity theory for numerical optimization" (with S.A. Vavasis), *Mathematical Programming* Vol. 57, No. 2 (1992), pp. 337-339.
45. "Gauss-Seidel method for least distance problems" (with W. Li and C.-G. Han), *Journal of Optimization Theory and Applications* Vol. 75, No. 3 (1992), pp. 487-500.
46. "Local search algorithm for the quadratic assignment problem" (with Y. Li and K. Murthy), *Informatica* Vol. 3, No. 4 (1992), pp. 524-538.
47. "On the solution of indefinite quadratic problems using an interior point algorithm" (with C.-G. Han and Y. Ye), *Informatica* Vol. 3, No. 4 (1992), pp. 474-496.
48. "A polynomial time solvable concave network flow problem" (with G. Guisewite), *Networks* Vol. 23 (1993), pp. 143-147.
49. "Solution of P-matrix linear complementarity problems using a potential reduction algorithm" (with Y. Ye, C.-G. Han and J. Kalinski), *SIAM Journal on Matrix Analysis and Applications* Vol. 14, No. 4, pp. 1048-1060 (Oct. 1993).
50. "Parallel computing in nonconvex programming" (with G. Guisewite), *Annals of Operations Research* 43 (1993), pp. 87-107.
51. "A test problem generator for the steiner problem in graphs" (with B.N. Khoury and D.-Z. Du), *ACM Transactions on Mathematical Software*, Vol. 19, No. 4 (1993), pp. 509-522.
52. "Test case generators and computational results for the maximum clique problem" (with J. Hasselberg and G. Vairaktarakis), *Journal of Global Optimization* 3, pp. 463-482 (1993).
53. "Parametric linear programming techniques for the indefinite quadratic programming problem" (with L. Vicente and J. Judice), *IMA Journal of Mathematics Applied in Business and Industry* 4 (1993), pp. 343-349.

54. “*On the expected value of random assignment problems: Experimental results and open questions*” (with K.G. Ramakrishnan), *Computational Optimization and Applications* 2 (1993), pp. 261-271.
55. “*A computational comparison of local search heuristics for solving quadratic assignment problems*” (with K. Murthy and T. Harrison), *Informatica* Vol. 4, No. 1-2 (1993), pp. 172-187.
56. “*The maximum clique problem*” (with J. Xue), *Journal of Global Optimization*, 4 (1994), pp. 301-328.
57. “*A continuous version of a result of Du and Hwang*” (with D.-Z. Du), *Journal of Global Optimization* 5 (1994), pp. 127-129.
58. “*Optimization Methods for Computing Global Minima of Nonconvex Potential Energy Functions*” (with G. Xue and D. Shalloway), *Journal of Global Optimization* Vol. 4, No. 2 (1994), pp. 117-133.
59. “*The Simplex Algorithm with a new Primal and Dual Pivot Rule*” (with H.D. Chen and M. Saunders), *Operations Research Letters* Vol. 16., No. 3 (1994), pp. 121-127.
60. “*On the use of optimization models for portfolio selection: A review and some computational results*” (with M. Sandström and C. Zopounidis), *Computational Economics* 7 (1994), pp. 227-244.
61. “*Lower bounds for the quadratic assignment problem*” (with Y. Li, K.G. Ramakrishna and M.G.C. Resende), *Annals of Operations Research*, Vol. 50, Special Volume on “Applications of Combinatorial Optimization,” pp. 387–411, (1994).
62. “*On the Evaluation and Application of Different Scales for Quantifying Pairwise Comparisons in Fuzzy Sets*” (with E. Triantaphyllou, F. Lootsma, and S.H. Mann), *Journal of Multi-Criteria Decision Analysis* Vol. 3 (1994), pp. 133–155.
63. “*New results in the packing of equal circles in a square*” (with C. Maranas and C. Floudas), *Discrete Mathematics* 142 (1995), pp. 287-293.
64. “*Efficient Computation of the Isotonic Median Regression*” (with G. Xue and L. Yong), *Applied Mathematics Letters* Vol. 8, No. 2 (1995), pp. 67-70.
65. “*Linear Programming approaches to the convex hull problem*” (with W. Hager and Y. Li), *Computers & Mathematics with Applications* Vol. 29, No. 7 (1995), pp. 23-29.
66. “*Algorithm 754: FORTRAN Subroutines for Approximate Solution of Dense Quadratic Assignment Problems Using GRASP*” (with M.G.C. Resende and Y.Li), *ACM Transactions on Mathematical Software* Vol. 22, No. 1 (1996), pp. 104-118.
67. “*A Heuristic for the Steiner Problem on Graphs*” (with B. Khoury), *Computational Optimization and Applications* 6 (1996), pp. 5-14.
68. “*Implementation of a Variance Reduction Based Lower Bound in a Branch and Bound Algorithm for the Quadratic Assignment Problem*” (with K.G. Ramakrishnan, M.G.C. Resende and Y.Li), *SIAM Journal on Optimization* Vol. 7, No. 1, (1997), pp. 280-294.
69. “*Complexity of Morphological Template Decomposition Problems in Computer Vision*” (with P. Sussner and G. Ritter), *Journal of Combinatorial Optimization* Vol.1, No.2 (1997), pp. 177-188.

70. “*Simulated Annealing and Genetic Algorithms for the Facility Layout Problem: A Survey*” (with T. Mavridou), *Computational Optimization and Applications* 7 (1997), pp. 111-126.
71. “*Algorithm 769: FORTRAN Subroutines for Approximate Solution of Sparse Quadratic Assignment Problems Using GRASP*” (with M.G.C. Resende and L. Pitsoulis), *ACM Transactions on Mathematical Software* Vol. 23, No.2 (June 1997), pp. 196-208.
72. “*A continuous characterization of the maximum clique problem*” (with L. Gibbons, D. Hearn and M. Ramana), *Mathematics of Operations Research* Vol. 22, No. 3 (1997), pp. 754-768.
73. “*Protein Conformation of a Lattice Model Using Tabu Search*” (with X. Liu and G. Xue), *Journal of Global Optimization* Vol. 11, No. 1 (1997), pp. 55-68.
74. “*A GRASP for the Biquadratic Assignment Problem*” (with T. Mavridou, L. Pitsoulis, M.G.C. Resende) *European Journal of Operations Research* 105 (1998), pp. 613-621.
75. “*Algorithms for a Class of Isotonic Regression Problems*” (with G. Xue), *Algorithmica*, Vol. 23, No. 3 (1999), pp. 211-222.
76. “*A greedy randomized adaptive search procedure for feedback vertex set problem*” (with T. Qian and M.G.C. Resende), *Journal of Combinatorial Optimization* Vol. 2, No. 4 (1999), pp. 399-412.
77. “*Maximizing the product of two linear functions in 0-1 variables*” (with P.L. Hammer, P. Hansen and D.J. Rader, Jr.), *Optimization* Vol. 51, No. 3 (2002), pp. 511-537.
78. “*FORTRAN subroutines for computing approximate solutions of weighted MAX-SAT problems using GRASP*” (with M.G.C. Resende and L.S. Pitsoulis), *Discrete Applied Mathematics* Vol. 100 (1999), pp. 95-113.
79. “*A solution approach to the fixed charge network flow problem using a dynamic slope scaling procedure*”, (with D. Kim) *Operations Research Letters* 24 (1999), pp. 195-203.
80. “*Recent developments and trends in global optimization*” (with E. Romeijn and H. Tuy), *Journal of Computational and Applied Mathematics* Vol. 124, No. 1-2 (2000), pp. 209-228.
81. “*A Coloring Problem on the n-Cube*” (with D.S. Kim and D.-Z. Du), *Discrete Applied Mathematics* Vol. 103 (2000), pp. 307-311.
82. “*A parallel GRASP for the Steiner tree problem in graphs using a hybrid local search strategy*” (with S.L. Martins, M.G.C. Resende, and C.C. Ribeiro), *Journal of Global Optimization* Vol. 17, (2000), pp. 267-283.
83. “*Dynamic Slope Scaling and Trust Interval Techniques for Solving Concave Piecewise Linear Network Flow Problems*”, (with D. Kim), *Networks* Vol. 35, No. 3 (2000), pp. 216-222.
84. “*A Dynamic Domain Contraction Algorithm for Nonconvex Piecewise Linear Network Flow Problems*”, (with D. Kim), *Journal of Global Optimization* 17 (2000), pp. 225-234.
85. “*Efficient Algorithms for Similarity Search*” (with S. Rajasekaran, Y. Hu, J. Luo, H. Nick, S. Sahni and S. Shaw), *Journal of Combinatorial Optimization* Vol. 5 No. 1 (2001), pp. 125-132.

86. “*Efficient Algorithms for Local Alignment Search*” (with S. Rajasekaran, S. Sahni and S. Shaw), *Journal of Combinatorial Optimization* Vol. 5 No. 1 (2001), pp. 117-124.
87. “*Multicriteria sorting methodology: application to financial decision problems*” (with K. Zopounidis, M. Doumpos), *International Journal of Parallel, Emergent and Distributed Systems* Vol. 15, No. 1-2 (2000), pp. 113-129.
88. “*Approximate Solutions to the Turbine Balancing Problem*” (with L.S. Pitsoulis and D. Hearn), *European Journal of Operational Research* Vol. 130, No.1 (2001), pp. 147-155.
89. “*On the chromatic number of graphs*” (with S. Butenko and P. Festa), *Journal of Optimization Theory and Applications* Vol. 109, No. 1 (April 2001), pp. 69-83.
90. “*Quadratic binary programming and dynamic system approach to determine the predictability of epileptic seizures*” (with L.D. Iasemidis, D.-S. Shiau, J.C. Sackellares), *Journal of Combinatorial Optimization* Vol. 5, No. 1 (2001), pp. 9-26.
91. “*A new algorithm for the conical combination representation of a vector*” (with H.X. Huang), *Journal of Optimization Theory and Applications* Vol. 109, No. 3 (2001), pp. 495-519.
92. “*A point balance algorithm for the spherical code problem*” (with H. X. Huang and Z.J. Shen), *Journal of Global Optimization* Vol. 19, No. 4 (2001), pp. 329-344.
93. “*Equivalent formulations and necessary optimality conditions for the Lenard-Jones problem*” (with H. X. Huang and Z.J. Shen), *Journal of Global Optimization* Vol. 22, No. 1-4 (2002), pp. 97-118.
94. “*Algorithm 815: FORTRAN subroutines for approximate solution of feedback vertex set problems usings GRASP*” (with P. Festa and M.G.C. Resende), ‘*ACM Transactions on Mathematical Software*’ Vol. 27, Issue 4 (December 2001), pp. 456 - 464.
95. “*Independent Sets in a Graph Using Continuous Multivariable Polynomial Formulations*” (with J. Abello, S. Butenko, and M. G. C. Resende), *Journal of Global Optimization* Vol. 21, No. 2, (October 2001), pp. 111-137.
96. “*Optimality conditions and duality for a class of nonlinear fractional programming problems*” (with Liang Zhi-an and H.X. Huang), *Journal of Optimization Theory and Applications* Vol. 110, No. 3 (2001), pp. 611-619.
97. “*Filled Functions for Unconstrained Global Optimization*” (with Z. Xu, H.-X. Huang, and C.-X. Xu), *Journal of Global Optimization* Vol. 20, No. 1 (2001), pp. 49-65.
98. “*A genetic algorithm for the weight setting problem in OSPF routing*” (with M. Ericsson and M.G.C. Resende), *Journal of Combinatorial Optimization* Vol. 6, No. 3 (2002), pp. 299-333.
99. “*GRASP with path relinking for the 3-index assignment problem*” (with R. Aiex, M.G.C. Resende, and G. Toraldo), *INFORMS Journal on Computing* Volume 17, No. 2 (2005), pp. 224-247.
100. “*A heuristic for the maximum independent set problem based on optimization of a quadratic over a sphere*” (with S. Busygin and S. Butenko), *Journal of Combinatorial Optimization* Vol. 6, No. 3 (2002), 287-297.

101. “*A multivariate partition approach to optimization problems*” (with H.-X. Huang) *Cybernetics and Systems Analysis* Vol. 38, No. 2 (2002), pp. 265-275.
102. “*Some properties for the Euclidean Distance Matrix and Positive Semidefinite Matrix Completion Problem*” (with H.-X. Huang and Z.-A. Liang), *Journal of Global Optimization* Vol. 25, No. 1 (2003), pp. 3-21.
103. “*Statistical information approaches to modeling and detection of the epileptic human brain*” (with L. Iasemidis, D.-S. Shiau, and J.C. Sackellares, V. Yatsenko, M. Yang, W. Chaovalitwongse), *Computational Statistics and Data Analysis* Vol. 43, No. 1 (2003), pp. 79 - 108.
104. “*Nonlinear Dynamical Systems and Adaptive Filters in Biomedicine*” (with V. Yatsenko, S. Butenko, and J.C. Sackellares), *Annals of Operations Research* 119 (2003), pp. 119-142.
105. “*GRASP with a new local search scheme for vehicle routing problems with time windows*” (with W. Chaovalitwongse and D. Kim), *Journal of Combinatorial Optimization* 7 (2003), pp. 179-207.
106. “*Flow search approach and new bounds for the m-step linear conjugate gradient algorithm*” (with H.-X. Huang and Z.-A. Liang), *Journal of Optimization Theory and its Applications* Vol. 120, No. 1 (2004), pp. 53-71.
107. “*Randomized heuristics for the MAX-CUT problem*” (with P. Festa, M.G.C. Resende, and C.C. Ribeiro) *Optimization Methods and Software* Vol. 17, No. 6 (December, 2002) pp. 1033-1058.
108. “*Methods for survivable networks design*” (in Korean) (with S.-G. Lee, and C.-G. Han), *The Journal Industrial Liaison Research Institute* Vol. 8 (2002), pp. 50-57.
109. “*A parallel implementation of an asynchronous team to the point-to-point connection problem*” (with R.C. Correa, F.C. Gomez, and C. Oliveira), *Parallel Computing* 29 (April 2003), pp. 447-466.
110. “*Adaptive Epileptic Seizure Prediction System*” (with L. Iasemidis, D.-S. Shiau, and J.C. Sackellares, and W. Chaovalitwongse, J.C. Principe, and P.R. Carney), *IEEE Transactions on Biomedical Engineering* Vol. 50, No. 5 (2003), pp. 616-626.
111. “*Prediction of Human Epileptic Seizures based on Optimization and Phase Changes of Brain Electrical Activity*” (with L. Iasemidis, D.-S. Shiau, J.C. Sackellares, and W. Chaovalitwongse) *Optimization Methods and Software* Volume 18, Number 1 (2003), pp. 81-104.
112. “*Analysis of EGG data using optimization, statistics, and dynamical systems techniques*” (with L. Iasemidis, D.-S. Shiau, J.C. Sackellares, V. Yatsenko, and W. Chaovalitwongse) *Computational Statistics and Data Analysis* Vol. 44, Issues 1-2, 28 October 2003, Pages 391-408.
113. “*Network Optimization in Supply Chain Management and Financial Engineering: An Annotated Bibliography* (with J. Geunes), *Networks* Vol. 42, Issue 2, (2003), pp. 66-84.
114. “*Efficiency conditions and duality for a class of multiobjective fractional programming problems*” (with L. Zhi-An and H.X. Huang), *Journal of Global Optimization* Vol. 27, No. 4 (2003), pp. 447-471.
115. “*Randomized Parallel Algorithms for the Multidimensional Assignment Problem*” (with C. Oliveira), *Applied Numerical Mathematics*, Volume 49, Issue 1 , April 2004, pp. 117-133.

116. “A note on the complexity of longest path problems related to graph coloring” (with A. Migdalas), *Applied Mathematics Letters* 17 (2004) pp. 13-15.
117. “Dynamical Resetting of the Human Brain at Epileptic Seizures: Application of Nonlinear Dynamics and Global Optimization Techniques” (with L. Iasemidis, D.-S. Shiau, and J.C. Sackellares, and A. Prasad), *IEEE Transactions on Biomedical Engineering* Vol. 51, No. 3 (2004), pp. 493-506.
118. “Long-Term Prospective On-Line Real-Time Seizure Prediction” (with L. Iasemidis, D.-S. Shiau, and J.C. Sackellares, W. Chaovalitwongse, and A. Prasad), *Journal of Clinical Neurophysiology*, Vol. 115, Issue 3 (2005), pp. 532–544.
119. “Dynamical Approaches and Multi-Quadratic Integer Programming for Seizure Prediction” (with L. Iasemidis, D.-S. Shiau, J.C. Sackellares, and W. Chaovalitwongse), *Optimization Methods and Software* Vol. 20, No. 3-4 (2005), pp. 383-394.
120. “On approximability of Boolean formula minimization” (with Oleg Prokopyev), *Journal of Combinatorial Optimization* Vol. 8 no. 2 (2004), pp. 129-135.
121. “Statistical Analysis of Financial Networks” (with V. Boginski and S. Butenko), *Journal of Computational Statistics and Data Analysis*, Vol. 48, Issue 1 (2005), pp. 431–443.
122. “Test problem generator for the multidimensional assignment problem” (with Don A. Grundel), *Computational Optimization and Applications*, Vol. 30 (2005), pp 133–146.
123. “Asymptotic properties of random multidimensional assignment problems” (with Don A. Grundel and C. A.S. Oliveira), *Journal of Optimization Theory and Its Applications* Vol. 122, No 3, pp. 33-46 (Sept.2004).
124. “Asymptotic results for random multidimensional assignment problems” (with Don A. Grundel, C. A.S. Oliveira, and E. Pasilio), *Computational Optimization and Applications* Volume 31, Number 3 (2005), pp. 275 - 293.
125. “A survey of combinatorial optimization problems in multicast routing” (with C. A.S. Oliveira) *Computers and Operations Research*, Volume 32, Issue 8 , August 2005, Pages 1953-1981.
126. “Minimum ϵ - equivalent circuit size problem” (with Oleg Prokopyev), *Journal of Combinatorial Optimization*, Vol. 8/4 (2004), pp. 495–502.
127. “Network Models of Massive Datasets” (with V. Boginski, S. Butenko), *Computer Science and Information Systems*, Vol. 1 (2004), pp. 79-93.
128. “Seizure warning algorithm based on optimization and nonlinear dynamics” (with L. D. Iasemidis, J. C. Sackellares, W. Chaovalitwongse, P. Carney, O. Prokopyev, V. Yatsenko, and D-S Shiau), *Mathematical Programming*, Vol. 101/2 (2004), pp. 365-385. **[004 The William Pierskalla best paper award for research excellence in health care management science, Institute for Operations Research and the Management Sciences (INFORMS).**
129. “On the complexity of unconstrained hyperbolic 0-1 programming problem,” (with H. Huang and O. Prokopyev), *Operations Research Letters*, Vol. 33/3 (2005), pp. 312-318.
130. “A new linearization technique for multi-quadratic 0–1 programming problems” (with O. Prokopyev and W. Chaovalitwongse), *Operations Research Letters*, Vol 32/6 (2004) pp. 517-522.

131. “*Optimal solutions for the closest string problem via integer programming*, (with C. A.S. Oliveira, Z. Lu, and C.N. Meneses) *INFORMS Journal on Computing*, 16(4):419-429, 2004.
132. “*Some Recent Developments in Deterministic Global Optimization*” (with A. Chinchuluun), *Operational Research: An International Journal*, Vol 4, pp. 3–28 (2004).
133. “*Branch and bound algorithms for the multidimensional assignment problem*” (with E. Pasiliao and L. Pitsoulis), *Journal of Optimization Methods and Software* Vol. 20, No. 1 (2005), pp. 127-143.
134. “*Second order cone programming approaches to static shakedown analysis in steel plasticity*” (with C.D. Bisbos and A. Makrodimopoulos), *Journal of Optimization Methods and Software* Vol. 20, No. 1 (2005), pp. 25-52.
135. “*On Multiple-Ratio Hyperbolic 0–1 Programming Problems*” (with O.A. Prokopyev, C. Meneses, C.A.S. Oliveira), *Pacific Journal of Optimization*, Vol. 1/2 (2005), pp. 327-345.
136. “*Comment on ‘Inability of Lyapunov Exponents to Predict Epileptic Seizures’*”, (with L.D. Iasemidis, K. Tsakalis, J. Chris Sackellares), *Phys. Rev. Lett.* 94, page 019801 (14 January 2005).
137. “*Expanding Neighborhood GRASP for the Traveling Salesman Problem*” (with Y. Marinakis and A. Migdalas), *Computational Optimization and Applications* Volume 10, Number 4 (Dec. 2005), pp. 231 - 257.
138. “*Construction Algorithms and Approximation Bounds for the Streaming Cashe Placement Problem in Multicast Networks*” (with C. Oliveira) *Cybernetics and Systems Analysis* (2005), Vol. 41, no 6 (Nov. 2005), pp. 898-908.
139. “*Optimization Techniques for String Selection and Comparison Problems in Genomics*” (with C.N. Meneses, C.A.S. Oliveira), *IEEE Engineering in Medicine and Biology Magazine* Vol. 24, No. 3, pp. 81-87, 2005.
140. “*A combinatorial algorithm for message scheduling on Controller Area Network*” (with C. Oliveira, T. Querido), *International Journal of Operational Research (IJOR)*, Vol. 1 No. 1/2 2005, pp. 160-171.
141. “*A Note on the Maximization of Strongly Convex Functions*,” (with A. Chinchuluun, E. Rentsen), *International Journal of Pure and Applied Mathematics*, Vol. 20, No. 4 (2005), pp. 529-538.
142. “*Global Minimization Algorithms for Concave Quadratic Programming Problems* (with A. Chinchuluun, E. Rentsen) *Optimization*, Vol 24, No. 6 (Dec. 2005), pp. 627-639.
143. “*Classification with Feature Selection via Mathematical Programming* (with S. Busygin) *WSEAS Transactions on Computers*, Issue 7, Volume 4, July, 2005, pages 655-660.
144. “*Feature Selection for Consistent Biclustering via Fractional 0-1 Programming*” (with Stanislav Busygin and Oleg A. Prokopyev), *Journal of Combinatorial Optimization*, Volume 10, Number 1 (2005), pp. 7-21.
145. “*Computational Comparison Studies of Quadratic Assignment Like Formulations for the In Silico Sequence Selection Problem in De Novo Protein Design*” (with H. K. Fung, S. Rao, C. A. Floudas, O. Prokopyev, and F. Rendl), *Journal of Combinatorial Optimization*, Volume 10, Number 1 (2005), pp. 41-60.

146. “*On the average case behaviour of multidimensional assignment problems*”, (with D. Grundel, P. Krokhmal, and C. Oliveira) *Pacific Journal of Optimization* Volume 1, Number 1, January 2005, pp. 39-57.
147. “*A hybrid-genetic - GRASP algorithm using Lagrangean relaxation for the traveling salesman problem*”, (with Y. Marinakis and A. Migdalas) *Journal of Combinatorial Optimization*, Volume 10, Number 4, December 2005, pp. 311 - 326.
148. “*Performance of a seizure warning algorithm based on the dynamics of intracranial EEG*”, (with W. Chaovalitwongse, L.D. Iasemidis, P.R. Carney, D.-S. Shiau and J.C. Sackellares), *Epilepsy Research*, Volume 64, Issue 3, May 2005, pp. 93-113.
149. “*Analysis of Stock Market Structure by Identifying Connected Components in the Market Graph*”, (with A. Arulselman, V. Boginski, and A. Kammerdiner), *Journal of Financial Decision Making* 1(1), pp. 27-37, 2005.
150. “*Nondifferentiable Minimax Fractional Programming Problems with $(C; \alpha; \rho; d)$ -Convexity*” (with D. Yuan, X. Liu, A. Chinchuluun) *Journal of Optimization Theory and Applications*, Vol. 129, No. 1 (2006), 185-199.
151. “*Reply to the comments on “Performance of a seizure warning algorithm based on the dynamics of intracranial EEG” by Winterhalder, M., Scheller, B., Achulze-Bonhage, A., Timmer J*”, (with W. Chaovalitwongse, L.D. Iasemidis, P.R. Carney, D.-S. Shiau and J.C. Sackellares), *Epilepsy Research*, Volume 72, Issue 1, November 2006, pp. 82-84.
152. “*Reply to the comments on “Performance of a seizure warning algorithm based on the dynamics of intracranial EEG” by Mormann, F., Elger, C.E., and Lehnertz, K.*”, (with W. Chaovalitwongse, L.D. Iasemidis, P.R. Carney, D.-S. Shiau and J.C. Sackellares), *Epilepsy Research*, Volume 72, Issue 1, November 2006, pp. 85-87.
153. “*Generalized convexities and generalized gradients based on algebraic operations*”, (with D. Yuan, A. Chinchuluun, and X. Liu) *Mathematical Analysis and Applications* Volume 321, Issue 2 (2006), pp. 675-690.
154. “*Optimization Approach to the Estimation and Control of Lyapunov Exponents*” (with V. Yatsenko), *Journal of Optimization Theory and its Applications*, Volume 128, Number 1 (2006), pp. 29-48.
155. “*Lower bound improvement and forcing rule for quadratic binary programming*,” (with H. Huang and O. Prokopyev), *Computational Optimization and Applications*, Vol 33, Numbers 2-3 (2006), pp. 187 - 208.
156. “*Enhanced Dynamic Slope Scaling Procedure with Tabu Scheme for Fixed Charge Network Flow Problems*” (with D. Kim and X. Pan) *Computational Economics* 27 (2006), pp. 273-293.
157. “*An algorithm for the job scheduling problem based on global equilibrium techniques*” (with O. Shylo) *Computational Management Science* Vol. 3, No 4. (2006), pp. 331-348.
158. “*Mining market data: A network approach*” (with V. Boginski, S. Butenko), *Computers & Operations Research* Volume 33, Issue 11, pp. 3171-3184 (November 2006).
159. “*Optimal Solutions to Minimum Total Energy Broadcasting Problem in Wireless Ad Hoc Networks*” (with Manki Min and Oleg Prokopyev) *Journal of Combinatorial Optimization* Volume 11, Number 1 (2006) pp. 59-69.

160. “*Cross-Facility Management of production and Transportation Planning Problem*, (with S. Duni-Eksioglu and H. E. Romeijn) *Computers and Operations Research* Volume 33, Issue 11, pp. 3231-3251 (November 2006).
161. “*Experimental Analysis of Approximation Algorithms for the Vertex Cover and Set Covering Problems*” (with F.C. Gomes, C.N. Meneses, G.V.R. Viana), *Computers and Operations Research* Volume 33, Issue 12 (2006), pp. 3520-3534.
162. “*A Feedback Control Systems View of Epileptic Seizures*” (with K. Tsakalis, Niranjan Chakravarthy, Shivkumar Sabesan, Leon D. Iasemidis) *Cybernetics and Systems Analysis*, Volume 42, Number 4 (2006), pp. 483-495.
163. “*A Predictability Analysis for an Automated Seizure Prediction Algorithm*” (with Chris Sackellares, Deng-Shan Shiau, Jose C. Principe, Mark C.K. Yang, Linda K. Dance, Wichai Suharitdamrong, Wanpracha Chaovaitwongse, and Leonidas D. Iasemidis) *Journal of Clinical Neurophysiology* vol. 23, Issue 6, (2006), pp. 509-520.
164. “*Algorithms with high order convergence speed for blind source extraction*,” (with P. Georgiev and A. Cichocki), *Computational Optimization and Applications*, vol 38, no 1 (2007), pp. 123-131.
165. “*Electroencephalogram (EEG) Time Series Classification: Application in Epilepsy*” (with W. Chaovaitwongse and O. Prokopyev), *Annals of Operations Research*, Special issue on ‘ ‘Operations Research in Medicine-Computing and Optimization in Medicine and Life Sciences’ ’ Volume 148, Number 1 (November, 2006), pp. 227-250.
166. “*Cryogenic-Optical Sensor for High-Sensitive Gravitational Measurements*, (with V.A. Yatsenko, V.V. Kozorez, R.A. Malitsky, A.M. Negrijko, V.M. Hodakovsky, O.K. Chermnykh, and L.P. Yatsenko), *Journal of Automation and Information Sciences* Volume 38 Issue 4 (2006), pp. 54-68.
167. “*On new Lagrangian dual bounds for the stability number of a graph*’ (with P.I. Stetsyuk and D.L. Kroshko), *Computer Mathematics* (in Russian), 2006, pp. 149-158
168. “*Enhancing Lagrangian dual estimates in binary and Boolean quadratic problems*,” (with P.I. Stetsyuk), In *Theory of Optimal Solutions* (in Russian), V. M. Glushkov Inst. of Cybernetics NAS of Ukraine, Kyiv (2006), pp. 145-153.
169. “*GRASP with path relinking for the weighted MAXSAT problem*”, Paola Festa and Panos M. Pardalos and Leonidas S. Pitsoulis and Mauricio G. C. Resende, *J. Exp. Algorithmics*, volume 11, (2006), Article No. 2.4, ACM Press (Year of Publication 2007).
170. “*On the number of local minima for the multidimensional assignment problem*, (with Don A. Grundel, Pavlo Krokhmal, and Carlos A.S. Oliveira) *Journal of Combinatorial Optimization* Vol. 13, No. 1 (2007), pp. 1-18.
171. “*An optimization based approach for data classification*” (with S. Busygin and O. Prokopyev), *Journal of Optimization Methods and Software*, Special Issue on Systems Analysis, Optimization and Data Mining in Biomedicine, Volume 22, Number 1 (February, 2007), pp. 3-9.
172. “*A classification method based on generalized eigenvalue problems*” (with M.R. Guarracino, C.Cifarelli, and O. Seref), *Journal of Optimization Methods and Software*, Special Issue on Systems Analysis, Optimization and Data Mining in Biomedicine, Volume 22, Number 1 (February, 2007), pp. 73-81.

173. “*Quality assessment of gene selection in microarray data*” (with C.H. Park, M. Jeon, and H. Park), *Journal of Optimization Methods and Software*, Special Issue on Systems Analysis, Optimization and Data Mining in Biomedicine, Volume 22, Number 1 (February, 2007), pp. 145-154.
174. “*Application of the data mining techniques to the systems biology of neuritogenesis*” (with Z.Q. Zhang, A.R. Kammerdinen, S. Busygin, A.K. Ottens, S.F. Larner, F.H. Kobeissy, R.L. Hayes, and K.K. Wang), *Journal of Optimization Methods and Software*, Special Issue on Systems Analysis, Optimization and Data Mining in Biomedicine, Volume 22, Number 1 (February, 2007), pp. 215-224.
175. “*A bilinear relaxation based algorithm for concave piecewise linear network flow problems*” (with A. Nahapetyan), *Journal of Industrial and Management Optimization*, Vol. 3, No. 1 (2007) pp. 71-85.
176. “*Global optimization by continuous grasp*” (with M. J. Hirsch, C. N. Meneses, and M. G. C. Resende), *Optimization Letters*, Vol. 1, No. 2 (2007) pp. 201-212.
177. “*Asymptotic Behavior of the Expected Optimal Value of the Multidimensional Assignment Problem*”, (with D. Grundel and P. Krokhmal) *Mathematical Programming* Vol. 109, No. 2-3 (March 2007), pp. 525-551.
178. “*K-T.R.A.C.E: A kernel k-means procedure for classification*” (with C. Cifarelli, L. Nieddu and O. Seref), *Computers and Operations Research* Volume 34, Issue 10 (2007), pp. 3154-3161.
179. “*Optimality Conditions and Duality for Nondifferentiable Multiobjective Fractional Programming with Generalized Convexity*” (with A. Chinchuluun, D. Yuan), *Annals of Operations Research*, Vol. 154 (2007), pp. 133-147.
180. “*A Survey of Recent Developments in Multiobjective Optimization*” (with A. Chinchuluun), *Annals of Operations Research*, Vol. 154 (2007), pp. 29-50.
181. “*Second-Order Cone & Semidefinite Representations of Material Failure Criteria*” (with C. D. Bisbos), *Journal of Optimization Theory and its Applications*, Vol. 134, No. 2 (August, 2007), pp. 275-301.
182. “*Optimization in Control and Learning in Coupled Map Lattice Systems*” (with V. Yatsenko and S. Nair), *Journal of Optimization Theory and its Applications*, Vol 134, No. 3 (September, 2007), pp. 533-547.
183. “*Scheduling problem with non-related parallel machines, sequence dependent setups, due dates and eligibility constraints*”, (with M. Ravetti, G. Robson Mateus, P. Leite Rocha), *International Journal of Operational Research (IJOR)*, Vol. 2, No. 4 (2007), pp. 380 - 399.
184. “*Solving Parallel Machines Scheduling Problems with Sequence-Dependent Setup Times Using Variable Neighborhood Search*”, (with M. Ravetti, G. Robson Mateus, P. Leite Rocha), *IMA Journal of Management Mathematics*, Vol. 18, no. 2 (2007), pp. 101-115.
185. “*Local saddle point and a class of convexification methods for nonconvex optimization problems*” (with T. Li, Y. Wang, and Z. Liang), *Journal of Global Optimization*, Vol. 38, Number 3 (July, 2007), pp. 405-419.
186. “*A New Approach to the Non-unique Probe Selection Problem*” (with Claudio N. Meneses and Michelle A. Ragle), *Annals of Biomedical Engineering*, Volume 35, Number 4 (April, 2007) pp. 651-658.

187. “*An Optimal Cutting-Plane Algorithm for Solving the Non-Unique Probe Selection Problem*” (with Michelle A. Ragle and J. Cole Smith), *Annals of Biomedical Engineering*, Volume 35, Number 11 (November, 2007). pp. 2023-2030.
188. “*Total Energy Optimal Multicasting in Wireless Ad Hoc Networks*” (with Manki Min) *Journal of Combinatorial Optimization*, Volume 13, Number 4 (2007), pp. 365-378.
189. “*A Bilinear Algorithm for Sparse Representations*,” (with Pando Georgiev and Fabian Theis), *Computational Optimization and Applications*, Volume 38, Number 2 (November 2007), pp. 249-259.
190. “*A new bilevel formulation for the vehicle routing problem and a solution method using a genetic algorithm*” (with Y. Marinakis and A. Migdalas), *Journal of Global Optimization*, Volume 38, Number 4 (2007), pp. 555-580.
191. “*The Wireless Network Jamming Problem*” (with C.W. Commander, V. Ryabchenko, S. Uryasev, and G. Zrazhevsky), *Journal of Combinatorial Optimization*, Vol. 14, No. 4 (2007) pp. 481-498.
192. “*Incremental classification with generalized eigenvalues*” (with C. Cifarelli, M. R. Guarracino and O. Seref) *Journal of Classification*, Volume 24, Number 2 (September, 2007), pp. 205-219.
193. “*Sequential constraint augmentation with variable neighbourhood search for the multidimensional assignment problem*,” (with E. Pasilio) *Int. J. Computational Science and Engineering*, Vol. 3 No. 3 (2007), pp. 184-193.
194. “*Streaming cache placement problems: complexity and algorithms*, (with C. A.S. Oliveira, O. Prokopyev, and M.G.C. Resende) *International Journal of Computational Science and Engineering*, Vol. 3 No. 3 (2007), pp. 173-183.
195. “*Adaptive dynamic cost updating procedure for solving fixed charge network flow problems*” (with A. Nahapetyan), *Computational Optimization and Applications*, Volume 39, Number 1 (January, 2008), pp. 37-50.
196. “*Jamming communication networks under complete uncertainty*” (with C.W. Commander, V. Ryabchenko, O. Shylo, S. Uryasev, and G. Zrazhevsky), *Optimization Letters*, Vol. 2 No. 1 (2008), pp. 53-70.
197. “*Exact algorithms for a scheduling problem with unrelated parallel machines and sequence and machine-dependent setup times*” (with P. L. Rocha, M. Ravetti, G. Robson Mateus), *Computers & Operations Research*, Volume 35, Issue 4, April 2008, pp. 1250-1264.
198. “*A bilinear reduction based algorithm for solving capacitated multi-item dynamic pricing problems*” (with A. Nahapetyan), *Computers & Operations Research*, Volume 35, Issue 5, May 2008, pp. 1601-1612.
199. “*Global equilibrium search applied to the unconstrained binary quadratic optimization problem*” (with O.A. Prokopyev, O.V Shylo, and V.P. Shylo) *Optimization Methods and Software*, Volume 23, Number 1 (February, 2008), pp. 129-140.
200. “*On the time series support vector machine using dynamic time warping kernel for brain activity classification*” (with W. Chaovalitwongse) *Cybernetics and Systems Analysis*, Vol. 44, No. 1 (2008), pp. 125-138.

201. "Localization of Minimax Problems" (with P.G. Georgiev and A. Chinchuluum), *Journal of Global optimization*, Volume 40, Numbers 1-3 (March, 2008), pp. 489-494.
202. "Biclustering in Data Mining" (with S. Busygin, and O. Prokopyev), *Computers & Operations Research*, Volume 35, Issue 9 (2008), pp. 2964-2987.
203. "A parallel multistart algorithm for the closest string problem," (with Fernando C. Gomes, C.N. Meneses, and Gerardo Valdisio R. Viana) *Computers & Operations Research*, Vol. 35, Issue 11 (2008), pp. 3636-3643.
204. "Asynchronous teams for probe selection problems" (with Claudio N. Meneses and Michelle A. Ragle), *Discrete Optimization*, 5 (2008), pp. 74-87.
205. "Morphological variations on surface topography of $YBa_2Cu_3O_{7-\delta}$ thin films on $SrTiO_3$, with respect to the substrate misorientation direction," (with Dimitrios Vassiloyannis), *Physica C: Superconductivity* Volume 468, Issue 3, 1 February 2008, Pages 147-152.
206. "Quantitative complexity analysis in multi-channel intracranial EEG recordings from epilepsy brains," (with Chang-Chia Liu, W. Art Chaovalitwongse, Deng-Shan Shiau, Georges Ghacibeh, Wichai Suharitdamrong and J. Chris Sackellares), *Journal of Combinatorial optimization*, Vol. 15, No. 3 (April 2008), pp. 276-286.
207. "OMEGA: an optimistic most energy gain method for minimum energy multicasting in wireless ad hoc networks," (with Manki Min), *Journal of Combinatorial Optimization*, Vol. 16, No.1 (July 2008), pp. 81-95.
208. "Analysis of Food Industry Market Using Network Approaches" (with A. Arulselvan, G. Baourakis, V. Boginski, and E. Korchina) *British Food Journal*, Vol. 110, No. 9 (2008), pp. 916-928.
209. "Absence seizures as resetting mechanisms of brain dynamics" (with S.P. Nair, P.I. Jukkola, M. Quigley, A. Wilberger, D. Shiau, J.C. Sackellares, and K.M. Kelly) *Cybernetics and Systems Analysis*, Vol. 44, No. 5 (Sept. 2008), pp. 664 - 672.
210. "An Ambulatory Persistence Power Curve: Motor Planning Affects Ambulatory Persistence in Parkinson's Disease" (with P. Xanthopoulos, K.M. Heilman, V. Drago, P.S. Foster, and F. Skidmore) *Neuroscience Letters*, 448 (2008), pp. 105-109.
211. "Real Options Using Markov Chains: An Application to Production Capacity Decisions" (with D. B.M.M. Fontes, L. Cames, and F. Fontes) *Journal of Computational Optimization in Economics and Finance*, 1 (2008), pp. 1-16.
212. "Random Assignment Problems" (with Pavlo Krokhmal), *European Journal of Operational Research* 194 (2009), pp. 1-17.
213. "Detecting Critical Nodes in Sparse Graphs," (with C.W. Commander, A. Arulselvan and L. Eleftheriadou) *Computers & Operations Research*, Volume 36, Issue 7 (2009), pp. 2193-2200.
214. "Measuring resetting of brain dynamics at epileptic seizures: application of global optimization and spatial synchronization techniques" (with S. Sabesan, N. Chakravarthy, K. Tsakalis, and L. Iasemidis), *Journal of Combinatorial Optimization*, Volume 17, Number 1 (January 2009), pp. 74-97.
215. "Selective Support Vector Machines" (with Onur Seref, O. Erhun Kundakcioglu, Oleg A. Prokopyev), *Journal of Combinatorial Optimization*, Volume 17, Number 1 (January 2009), pp. 3-30.

216. "A Novel Approach for Nonconvex Optimal Control Problems" (with A. Chinchuluun and E. Rentsen) *Optimization*, Vol 58, No. 5-6,(2009).
217. "Multiple phase neighborhood Search - GRASP based on Lagrangean relaxation, random backtracking Lin-Kernighan and path relinking for the TSP," (with Yannis Marinakis and Athanasios Migdalas), *Journal of Combinatoria optimization*, Volume 17, Number 2,(February, 2009), pp. 134-156.
218. "Dynamical Feature extraction from Brain Activity Time Seires" (with Chang-Chia Liu, W. Art Chaovalitwongse, B. Uthman), In "Encyclopedia of Data Warehousing and Mining" (2nd Edition, John Wang, Editor) IDEA Group Inc., Vol. 2, 2009, pp. 729-735.
219. "Column enumeration based decomposition techniques for a class of non-convex MINLP problems" (with Steffen Rebennack and Josef Kallrath), *Journal of Global Optimization*, Vol 43 (2009), pp. 277-297.
220. "Mathematical programming techniques for sensor networks" (with A. Soorokin, N. Boyko, V. Boginski, and S. Uryasev), *Algorithms*, Vol 2 (2009), pp. 565-581.
221. "Optimization in Ad Hoc Networks" (with Xiaoxia Huang, Yuguang Fang), *Encyclopedia of Optimization* (2nd Edition), Springer (2009), pp. 2764-2774.
222. "Rosen's Method, Global Convergence, and Powell's Conjecture" (with Ding-Zhu Du aand Weili Wu) *Encyclopedia of Optimization* (2nd Edition), Springer (2009), pp. 3345-3354.
223. "Solving Systems of Nonlinear Equations with Continuous GRASP" (with M. J. Hirsch, and M. G. C. Resende), *Nonlinear Analysis Series B: Real World Applications*, Vol. 10, No. 4 (2009), pp. 2000-2006.
224. "An Investigation of EEG Dynamics in an Animal Model of Temporal Lobe Epilepsy Using the Maximum Lyapunov Exponent" (with S.P. Nair, D.-S. Shiau, J.C. Principe, L.D. Iasemidis, W. N. Norman, P.R. Carney, K. Kelly, and J.C. Sackellares), *Experimental Neurology*, Volume 216, Issue 1, March 2009, Pages 115-121.
225. "Classification and Characterization of Gene Expression Data with Generalized Eigenvalues" (with M.R. Guarracino, and S. Cucinielo) *Journal of Optimization Theory and Applications* Vol. 141, No. 3 (June 2009), pp. 533-545.
226. "Optimisation and data mining techniques for the screening of epileptic patients" (with Y.-J. Fan, W. Chaovalitwongse, C.-C. Liu, R. s. Sachdeo, and L.D. Iasemidis) *Int. J. Bioinformatics Research and Applications*, Vol. 5, No. 2 (2009), pp. 187-196.
227. "Classification via mathematical programming, A Survey" (with E. Kundakcioglu) *Appl. Comp. Math.*, Vol. 8, No. 1 (2009), pp. 23-35.
228. "Bilinear modeling solution approach for fixed charge network flow problems" (with S. Rebennack and A. Nahapetyan), *Optimization Letters*, Vol. 3, No. 3 (2009) pp. 347-355.
229. "A combinatorial algorithm for the TDMA message scheduling problem" (with Clayton Commander) *Computational Optimization and Applications*, Volume 43, Number 3 (July, 2009), pp. 449-463.
230. "A multicriteria approach for rating the credit risk of financial institutions" (with G. Baourakis, M. Conisescu, G. Van Dijk, and C. Zopounidis), *Computational Management Science* Volume 6, Number 3 (August 2009), pp. 347-356.

231. “*Cell death discrimination with Raman spectroscopy and support vector machines*” (with Georgios Pyrgiotakis, Erhun Kundakcioglu, Kathryn Finton, Kevin Powers, and Brij M. Moudgil), *Annals of Biomedical Engineering*, Volume 37, Number 7 (July, 2009), pp. 1464-1473.
232. “*A Survey of Data Mining Techniques Applied to Agriculture*” (with P. Papajorgji and A. Mucherino), *Operational Research: An International Journal*, Volume 9, Number 2 (August 2009), pp. 121-140.
233. “*A novel approach for nonconvex optimal control problems*” (with Altannar Chinchuluun and Rentsen Enkhbat) *Optimization*, Volume 58, Issue 7 October 2009 , pp. 781 - 789.
234. “*The Hot-rolling Batch Scheduling Method based on the Prize Collecting Vehicle Routing Problem*” (with T. Zhang, W. Chaovalitwongse, Y. Zhang), *Journal of Industrial and Management Optimization*, Volume 5, Number 4 (November 2009), pp. 749 - 765.
235. “*Optimization and data mining in medicine*” (with Vera Tomaino and Petros Xanthopoulos), *TOP*, Volume 17, Issue 2 (2009), pp. 215 - 236.
236. “*Rejoinder on: Optimization and data mining in biomedicine*” (with Vera Tomaino and Petros Xanthopoulos), *TOP*, Volume 17, Issue 2 (2009), pp. 253 - 255.
237. “*An efficient string sorting algorithm for weighing matrices of small weight*” (with I.S. Kotsireas and C. Koukouvinos) *Optimization Letters*, Vol. 4 No. 1 (2010), pp. 29-36.
238. “*Modeling: A Central Activity for Flexible Information Systems Development in Agriculture and Environment*” (with Papajorgji, P., Pinet, F., Miralles, A., and Jallas, E.) *International Journal of Agricultural and Environmental Information Systems*, Vol. 1 No. 1 (2010), pp. 1-25.
239. “*Data Mining Techniques in Agricultural and Environmental Sciences*” (with Chinchuluun, A., Xanthopoulos, P., and Tomaino, V.) *International Journal of Agricultural and Environmental Information Systems*, Vol. 1 No. 1 (2010), pp. 26-40.
240. “*Complexity analysis for maximum flow problems with arc reversals*” (with Steffen Rebennack, Ashwin Arulsevan, Lily Elefteriadou) *Journal of Combinatorial Optimization* Volume 19, Number 2 (February, 2010), pp. 200-216.
241. “*Real-time differentiation of nonconvulsive status epilepticus from other encephalopathies using quantitative EEG analysis: A pilot study*” (with Jicong Zhang, Petros Xanthopoulos, Chang-Chia Liu, Scott Bearden, and Basim M. Uthman,) *Epilepsia*, 51, 2 (2010), pp. 243-250.
242. “*Periodic Complementary Binary Sequences and Combinatorial Optimization Algorithms*” (with I. S. Kotsireas, C. Koukouvinos, O. V. Shylo), *Journal of Combinatorial Optimization*, Volume 20, Number 1 (July, 2010), pp. 63-75.
243. “*Multiple instance learning via margin maximization*” (with E. Kundakcioglu and O. Seref) *Applied Numerical Mathematics*, Volume 60, Issue 4, April 2010, pp. 358-369.
244. “*Greedy Approximations for Minimum Submodular Cover with Submodular Cost*”, (with Ding-Zhu Du, Peng-Jun Wan, and Weili Wu), *Computational Optimization and Applications*, Volume 45, Number 2 (March, 2010), pp. 463-474.
245. “*Speeding up continuous GRASP*” (with M. J. Hirsch, and M. G. C. Resende), *European Journal of Operations Research*, Volume 205, Issue 3, 16 September 2010, Pages 507-521.

246. “*Space weather influence on power systems: prediction, risk analysis, and modeling*” (with Y. Yatsenko, N. Boyko, and S. Rebennack), *Energy Systems*, 1, No. 2 (2010), pp. 197-207.
247. “*Linear and quadratic programming approaches for the general graph partitioning problem*” (with Neng Fan) *Journal of Global Optimization*, Volume 48, Number 1 (2010), 57-71
248. “*Solving job scheduling problems utilizing the properties of backbone and ‘big valley’*” (with O. Shylo and A. Vazakopoulos) *Computational Optimization and Applications*, Vol. 47, No. 1 (2010), pp. 61-76.
249. “*A biased random-key genetic algorithm for road congestion minimization*” (with L.S. Buriol, M.J. Hirsch, T. Querido, M.G.C. Resende, and M. Ritt), *Optimization Letters* (2010) Vol 4, No. 4, pp. 619-633.
250. “*On the Hamming distance in combinatorial optimization problems on hypergraph matchings*” (with P. Krokhmal, and A.R. Kammerdiner), *Optimization Letters* (2010) Vol. 4, No. 4, pp. 609-617.
251. “*Stochastic and Risk Management Models and Solution Algorithm for Natural Gas Transmission Network Expansion and LNG Terminal Location Planning*” (with Qipeng P. Zheng), *Journal of Optimization Theory and Applications*, Volume 147, Number 2 (November 2010), pp. 337-357.
252. “*Signal Regularity-Based Automated Seizure Detection System for Scalp EEG Monitoring*” (with Deng-Shan Shiau, Jonathan J. Halford, Kevin M. Kelly, Ryan T. Kern, Mike Inman, Jui-Hong Chien, Mark C. K. Yang, and J. Chris Sackellares) *Cybernetics and Systems Analysis* Vol. 46, No.6 (Dec. 2010), pp. 922-935.
253. “*Wireless networking, dominating and packing,*” (with Weili Wu, Xiaofeng Gao, and Ding-Zhu Du), *Optimization Letters* Volume 4, Number 3 (2010), Pages 347-358.
254. “*A Signal Regularity-Based Automated Seizure Prediction Algorithm Using Long-Term Scalp EEG Monitorings*” (with Deng-Shan Shiau, Jonathan J. Halford, Kevin M. Kelly, Ryan T. Kern, Mike Inman, Jui-Hong Chien, Mark C. K. Yang, and J. Chris Sackellares) *Cybernetics and Systems Analysis* Vol. 47, No.4 (2011), pp. 586-597.
255. “*Restart strategies in optimization: parallel and serial cases*” (with O.Shylo and T. Middelhoop), *Parallel Computing*, Volume 37, Issue 1 (January 2011), pp. 60-68.
256. “*A Hybrid Particle Swarm Optimization and Tabu Search Algorithm for Order Planning Problems of Steel Factories Based on the Make-to-Stock and Make-to-Order Management Architecture*” (with T. Zhang, Y. Zhang, and Q. P. Zheng), *Journal of Industrial and Management Optimization*, Vol. 7 No. 1 (January 2011), pp. 31-51.
257. “*Optimal Storage Design for a Multi-Product Plant: A Non-Convex MINLP Formulation*” (with S. Rebennack and Josef Kallrath), *Computers & Chemical Engineering*, Volume 35, Issue 2 (February 2011), pp. 255-271.
258. “*Optimality conditions of first order for global minima of locally Lipschitz function*” (with P. Georgiev and A. Chinchuluun), *Optimization*, Volume 60, Issue 1 & 2 (January 2011), pp. 277 - 282.
259. “*Generalized Nash equilibrium problems for lower semi-continuous strategy maps*” (with P. Georgiev), *Journal of Global Optimization*, Volume 50, Number 1 (2011), 119-125.

260. “*Raman spectroscopy and Support Vector Machines for quick toxicological evaluation of Titania nanoparticles*” (with Georgios Pyrgiotakis, Erhun Kundakcioglu, and Brij M. Moudgil), *Journal of Raman Spectroscopy*, Volume 42, Issue 6, June 2011, pp. 1222-1231.
261. “*A rearrangement of adjacency matrix based approach for solving the crossing minimization problem*” (with Neng Fan) *Journal of Combinatorial Optimization*, Volume 22, Issue 4 (2011), pp. 747-762.
262. “*A Branch and Cut Solver for the Maximum Stable Set Problem*” (with Steffen Rebennack, Marcus Oswald, Dirk Oliver Theis, Hanna Seitz, and Gerhard Reinelt), *Journal of Combinatorial Optimization*, Volume 21, Number 4 (2011), 434-457.
263. “*Robust multi-sensor scheduling for multi-site surveillance*” (with Nikita Boyko, Timofey Turko, Vladimir Boginski, David E. Jeffcoat, Stanislav Uryasev, Grigoriy Zrazhevsky) *Journal of Combinatorial Optimization*, Volume 22, Number 1 (2011), 35-51.
264. “*Revised GRASP with Path-Relinking for the Linear Ordering Problem*” (with W. Chaovaitwongse, M.G.C. Resende, and D.A. Grundel) *Journal of Combinatorial Optimization*, Volume 22 Issue 4, November 2011, pp. 572-593.
265. “*Development of a Multimodal Transportation Educational Virtual Appliance (MTEVA) to study congestion during extreme tropical events,*” (with Justin R. Davis, Qipeng P. Zheng, Vladimir A. Paramygin, Bilge Tutak, Chrysafis Vogiatzis, Y. Peter Sheng, and Renato J. Figueirdo), *Journal of Transportation Safety and Security* (to appear), 2011.
266. “*A modified power spectral density test applied to weighing matrices with small weight*” (with I. Kotsireas and C. Koukouvinos) *Journal of Combinatorial Optimization*, Vol 22, No 4 (2011), pp 873-881.
267. “*Connectivity brain networks based on wavelet correlation analysis in Parkinson fMRI data*” (with F. Skidmore, D. Korenkevych, Y. Liu, G. he, and E. Bullmore) *Neuroscience Letters*, (2011 Jul 15) 499(1), pp. 47-51.
268. “*Classification of cancer cell death with spectral dimensionality reduction and generalized eigenvalues*” (with Mario Guarracino, Petros Xanthopoulos, Georgios Pyrgiotakis, V. Tomaino, and B. Moudgil), *Artificial Intelligence In Medicine* 53 (2011), pp. 119-125.
269. “*Correspondence of projected 3-D points and lines using a continuous GRASP*” (with Michael J. Hirsch, and Mauricio G. C. Resende), *Intl. Trans. in Op. Res.* 18 (2011), pp. 493-511.
270. “*Revised GRASP with path-relinking for the linear ordering problem*” (with W. Art Chaovaitwongse, Carlos A. S. Oliveira, Bruno Chiarini and Mauricio G. C. Resende), *Journal of Combinatorial Optimization* Vol 22 No. 4 (November 2011), pp. 572-593.
271. “*Raman spectroscopy for Clinical Oncology*” (with M. B. Fenn, P. Xanthopoulos, L. Hench, S. R. Grobmyer and G. Pyrgiotakis) *Advances in Optical Technologies* Volume 2011 (2011), Article ID 213783, 20 pages (doi:10.1155/2011/213783).
272. “*D-Optimal Designs: A Mathematical Programming Approach Using Cyclotomic Cosets*” (with Mujahid N. Syed and I. Kotsireas), *Informatica* Vol 22 No. 4 (2011), pp. 577-587.
273. “*Nash Equilibrium and Saddle Points for Multifunctions*” (with P. G. Georgiev, T. Tanaka, and D. Kuroiwa), *Commun. Math. Anal.* 10 (2011), No. 2, pp. 118-127.

274. “A mixed integer programming approach for optimal power grid intentional islanding” (with Neng Fan, David Izraelevitz, Feng Pan, and Jianhui Wang) *Energy Systems* Vol. 3 No. 1 (2012), pp. 77-93.
275. “A Tutorial on Branch & Cut Algorithms for the Maximum Stable Set Problem” (with S. Rebennack, G. Reinelt), *International Transactions in Operational Research* Volume 19, Issue 1-2 (2012), pp. 161-199.
276. “Robust optimization of graph partitioning involving interval uncertainty” (with Neng Fan and Qipeng P Zheng) *Theoretical Computer Science* Volume 447, 17 August 2012, Pages 53-61.
277. “A decision making process application for the slurry production in ceramics via fuzzy cluster and data mining” (with Feyza Gurbuz), *Journal of Industrial and Management Optimization*, Volume 8, Number 2, (May 2012), pp. 285-297.
278. “hGA: Hybrid Genetic Algorithm in Fuzzy Rule-Based Classification Systems for High-Dimensional Problems” (with Emel Kizilkaya Aydogan and Ismail Karaogla), *Applied Soft Computing*, Volume 12, Issue 2, February 2012, pp. 800-806
279. “Stochastic Hydro-Thermal Scheduling under CO2 Emissions Constraints” (with Steffen Rebennack and Mario Veiga Pereira) *IEEE Transactions on Power Systems*, VOL. 27, NO. 1 (FEBRUARY 2012), pp. 58-68.
280. “Multi-way clustering and biclustering by the Ratio cut and Normalized cut in graphs” (with Neng Fan) *Journal of Combinatorial Optimization*, Volume 23, Issue 2 (2012), pp. 224-251.
281. “On New Approaches of Assessing Network Vulnerability: Hardness and Approximation” (with T. N. Dinh, Y. Xuan, M. T. Thai, and T. Znati), *IEEE/ACM Transactions on Networking (ToN)*, Vol. 20, No. 2 (2012), pp. 609-619.
282. “Parallel hybrid heuristics for the permutation flow shop problem” (with Martin G. Ravetti, Carlos Riveros, Alexandre Mendes, and M.G.C. Resende), *Annals of Operations Research*, Volume 199, Number 1 (Oct 2012), pp. 269-284.
283. “Efficient solutions for the far from most string problem” (with Paola Festa), *Annals of Operations Research*, Special Issue on “OR in Medicine and Health Care”, Volume 196, Number 1 (July 2012), pp. 663-682.
284. “Extremal values of global tolerances in combinatorial optimization with an additive objective function” (with Vyacheslav V. Chistyakov and Boris I. Goldengorin), *Journal of Global Optimization*, Volume 53, Number 3 (2012), pp. 475-495.
285. “Generalized Lagrange Function and Generalized Weak Saddle Points for a Class of Multiobjective Fractional Optimal Control Problems” (with Haijun Liu and Neng Fan), *Journal of Optimization Theory and Applications*, Volume 154, Number 2 (2012), pp. 370-381.
286. “Global tolerances in combinatorial optimization problems with additive objective function” (with V. V. Chistyakov and B. I. Goldengorin), *Doklady Akademii Nauk*, 2012, volume 446, No 1, 21-24.
287. “Competent Genetic Algorithms for Weighing Matrices” (with I. Kotsireas and C. Koukouvinos) *Journal of Combinatorial Optimization*, Volume 24, Issue 4 (2012), pp. 508-525

288. “*On the Complexity of Path Problems in Properly Colored Directed Graphs*” (with Donatella Granata and Behnam Behdani) *Journal of Combinatorial Optimization*, Vol 24 (2012), pp. 459-467.
289. “*A Mesh Adaptive Basin Hopping Method for the Design of Circular Antenna Arrays*” (with Giovanni Stracquadanio and Elisa Pappalardo), *Journal of Optimization Theory and Applications*, Vol 155, No 3 (2012), pp. 1008-1024
290. “*Applying Market Graphs for Russian Stock Market Analysis*” (A. Vizgunov, Boris Goldengorin, V. Zamaraev, V. Kalyagin, A. Koldanov, P. Koldanov and P. Pardalos), *Journal of the New Economic Association*, vol. 15, issue 3 (2012), pp. 66-81.
291. “*Computational risk management techniques for fixed charge network flow problems with uncertain arc failures*” (Alexey Sorokin, Vladimir Boginski, Artyom Nahapetyan, Panos M. Pardalos), *Journal of Combinatorial Optimization*, Vol 25 (2013), pp. 99-122.
292. “*Maximum Lifetime Connected Coverage with Two Active-Phase Sensors*” (with Hongwei Du, Weili Wu, and Lidong Wu), *Journal of Global Optimization*, Volume 56, Issue 2 (2013), pp. 559-568.
293. “*A Python/C library for bound-constrained global optimization with continuous GRASP*” (R. M. A. Silva, M. G. C. Resende, P. M. Pardalos, M. J. Hirsch), *Optimization Letters*, Volume 7, Issue 5 (2013), Page 967-984.
294. “*Quadratic Assignment Problem*” (Alla Kammerdiner, Theodoros Gevezes, Eduardo Pasillao, Leonidas Pitsoulis and Panos M. Pardalos), In *Encyclopedia of Operations Research and Management Science* (S. Gass, M. Fu (eds.)), Springer (2013), pp. 1193-1207.
295. “*Global Optimization*” (Huang Tuy, Steffen Rebennack, and Panos M. Pardalos) In *Encyclopedia of Operations Research and Management Science* (S. Gass, M. Fu (eds.)), Springer (2013), pp. 650-658.
296. “*Iterative roots of multidimensional operators and applications to dynamical systems*” (Pando Georgiev, Lars Kindermann, and Panos M. Pardalos) *Optimization Letters*, 7 (2013), pp. 1701 - 1710.
297. “*An Improved Adaptive Binary Harmony Search Algorithm*” (Y. Xu, Q. Niu, P.M. Pardalos, M. Fei), *Information Sciences*, 232 (2013), pp. 58-87.
298. “*An Adaptive Fuzzy Controller based on Harmony Search and Its Application to Power Plant Control*” (Ling Wang, Ruixin Yang, Panos M Pardalos, Lin Qian, Minrui Fei) *International Journal of Electrical Power & Energy Systems*, Volume 53 (2013), pp. 272-278.
299. “*Raman spectroscopy utilizing Fisher-based feature selection combined with support vector machines for the characterization of breast cancer cell lines*” (Fenn, M.B., Pappu, V., Georgeiv, P., Pardalos, P.M.) *Journal of Raman Spectroscopy* 44 (2013), pp. 939-948.
300. “*Robust aspects of solutions in deterministic multiple objective linear programming*” (Pando Gr. Georgiev, Dinh The Luc, and Panos M. Pardalos) *European Journal of Operational Research*, Vol 229, Issue 1 (2013), pp. 29-36.
301. “*Simple measure of similarity for the market graph construction*” (Grigory A. Bautin, Valery A. Kalyagin, Alexander P. Koldanov, Petr A. Koldanov, and Panos M. Pardalos), *Computational Management Science*, Vol. 10, No 2-3 (2013), pp.105-124.

302. “*Statistical Procedures for the Market Graph Construction*” (Alexander P. Koldanov, Petr A. Koldanov, Valeriy A. Kalyagin, and Panos M. Pardalos) *Computational Statistics and Data Analysis*, Vol 68 (2013), pp. 17-29.
303. “*Livestock Evacuation Planning for Natural and Man-made Emergencies*” (Chrysafis Vogiatzis, Ruriko Yoshida, Ines Aviles-Spadoni, Shigeki Imamoto, and Panos M. Pardalos) *International Journal of Mass Emergencies and Disasters*, March 2013, Vol. 31, No. 1, pp. 25-37.
304. “*Efficient Computation of Tolerances in the Weighted Independent Set Problem for Trees*” (Goldengorin B. I., Malyshev D., Pardalos P. M.) *Doklady Akademii Nauk*, 2013, volume 450. No 4. pp. 393-396.
305. “*Polyhydroxy Fullerenes*” (A. Georgieva, V. Pappu, V. Krishna, P. Georgiev, I. Ghiviriga, P. Indeglia, X. Xu, Z. Hugh Fan, B. Koopman, P. Pardalos, B. Moudgil) *Journal of Nanoparticle Research*, June 2013, 15:1690.
306. “*Multistage Transmission Expansion Planning Considering Fixed Series Compensation Allocation*” (with Mohsen Rahmani, Guillermo Vinasco, Marcos J. Rider, Ruben Romero, and Panos M. Pardalos) *IEEE Transactions on Power Systems*, Vol. 28, No. 4 (Nov 2013), pp. 3795-3805.
307. “*Prediction of electricity energy consumption of Turkey via artificial bee colony: a case study*” (Feyza Gurbuz, Celal Ozturk and Panos Pardalos) *Energy Systems*, September 2013, Volume 4, Issue 3, pp. 289-300.
308. “*D-optimal matrices via quadratic integer optimization*” (I.S. Kotsireas and P.M. Pardalos) *J Heuristics*, Vol. 19, Issue 43 (2013), pp. 617 - 627.
309. “*Inverity of the Minimum Error Entropy Criterion*” (Mujahid Syed, Jose Principe, and Panos M.Pardalos) *IEEE Signal Processing Letters*, Vol 20, No 12 (Dec 2013), pp. 1159 - 1162.
310. “*A Decomposition Approach to the Two-Stage Stochastic Unit Commitment Problem*” (Qipeng Zheng, Jianhui Wang, Panos M. Pardalos, and Yongpei Guan), *Annals of Operations Research*, Vol 210 (2013), pp. 387-410.
311. “*Efficient Computation of Tolerances in the Weighted Independent Set Problem for Some Classes of Graphs*” (Malyshev D., Pardalos P. M.) *Doklady Mathematics*, Vol. 89, No. 2 (2014), pp. 253 - 256.
312. “*A hierarchical approach for sparse source blind signal separation problem*” (Mujahid N. Syed, Pando G. Georgiev, Panos M. Pardalos) *Computers & Operations Research*, 41 (2014) pp. 386-398
313. “*Space Pruning Monotonic Search for the Non-unique Probe Selection Problem*” (Elisa Pappalardo, Beyza Ahlatcioglu Ozkok, and Panos M.Pardalos) *Int. J. of Bioinformatics Research and Applications*, Vol. 10, No 1 (2014), pp. 59-74.
314. “*Network approach for the Russian stock market*” (A. Vizgunov, B. Goldengorin, V. Kalyagin, A. Koldanov , P. Koldanov, and P. M. Pardalos), *Computational Management Science*, January 2014, Volume 11, Issue 1-2, pp. 45-55.
315. “*Improvements to MCS Algorithm for the Maximum Clique Problem*” (Mikhail Batsyn, Boris Goldengorin, Evgeny Maslov, and Panos M. Pardalos) *Journal of Combinatorial Optimization*, Vol. 27 No 2 (2014), pp. 397 - 416.

316. “*Application of an effective modified gravitational search algorithm for the coordinated scheduling problem in a two-stage supply chain*” (Jun Pei, Xinbao Liu, Panos M. Pardalos, Wenjuan Fan, Shanlin Yang, and Ling Wang) *International Journal of Advanced Manufacturing Technology*, 70 (2014), pp. 335 - 348.
317. “*Routing-efficient CDS construction in Disk-Containment Graphs*” (Zaixin Lu, Lidong Wu, Panos M. Pardalos, Eugene Maslov, Wonjun Lee, Ding-Zhu Du) *Optimization Letters*, Optimization Letters Vol. 8 No. 2 (2014), pp. 425-434.
318. “*Integer Programming Models for the Multidimensional Assignment Problem with Star Costs*” (Chrysafis Vogiatzis, Eduardo Pasiliao, Jose Walteros, and Panos M Pardalos), *European Journal of Operational Research*, Vol 235, No. 3 (2014), pp. 553-568.
319. “*On the optimization properties of the correntropic loss function in data analysis*” (Mujahid N. Syed, Panos M. Pardalos, Jose C. Principe) *Optimization Letters*, Vol. 8, No. 3 (2014), pp. 823-839.
320. “*A Combined Greedy-Walk Heuristic and Simulated Annealing Approach for the Closest String Problem*” (Elisa Pappalardo, Domenico Cantonebe, and Panos M.Pardalos) *Optimization Methods and Software*, Vol 29, No. 4 (2014), pp. 673-702.
321. “*Feature selection based on meta-heuristics for biomedicine*” (Ling Wang, Haoqi Ni, Ruixin Yang, Vijay Pappu, Michael B. Fenn and Panos M. Pardalos) *Optimization Methods and Software*, Vol 29, No. 4 (2014), pp. 703-719.
322. “*Space pruning monotonic search for the non-unique probe selection problem*” (Elisa Pappalardo, Beyza Ahlatcioglu Ozkok, and Panos M. Pardalos) *International Journal of Bioinformatics Research and Applications*, Vol 10, No. 1 (2014), pp. 59-74.
323. “*Generating Properly Efficient Points in Multi-objective Programs by the Nonlinear Weighted Sum Scalarization Method*” (M. Zarepisheh, E. Khorram, and Panos M. Pardalos) *Optimization* Volume 63, Issue 3 (2014), pp. 473-486
324. “*Minimum Norm Solution to the Positive Semidefinite Linear Complementarity Problem*” (Panos M. Pardalos, Saeed Ketabchi, and Hossein Moosaei) *Optimization* Volume 63, Issue 3 (2014), pp. 359-369.
325. “*Robust Generalized Eigenvalue Classifiers with Ellipsoidal Uncertainty*” (P. Xanthopoulos, M. Guarracino, and P.M. Pardalos), *Annals of Operations Research*, Volume 216, Issue 1 (2014), pp 327-342.
326. “*Efficient computation of tolerances in the weighted independent set problem for some graph classes*” (Malyshev D., and Pardalos P. M.) *Doklady Akademii Nauk*, 2014, volume 455, No 5, pp. 1-4 (in Russian).
327. “*Graph partitions for the multidimensional assignment problem*” (Chrysafis Vogiatzis, Eduardo Pasiliao, and Panos M Pardalos), *Computational Optimization and Applications*, Volume 58, Issue 1 (2014), pp. 205-224.
328. “*Minimum total coloring of planar graph*” (H. Wang, L. Wu, W. Wu, P.M. Pardalos, J. Wu) *Journal of Global Optimization*, Vol. 60, No. 4 (2014), pp. 777 - 791.

329. “*Strengthening the resiliency of a coastal transportation system through integrated simulation of storm surge, inundation, and nonrecurrent congestion in Northeast Florida*” (J. Davis, V. A Paramygin, V. Chrysafis, Y. P. Sheng, P.M. Pardalos, Ro J. Figueiredo) *Journal of Marine Science and Engineering*, J. Mar. Sci. Eng. 2014, 2, pp. 287-305.
330. “*Bounds on end-to-end statistical delay and jitter in multiple multicast coded packet networks*” (M. A. Raayatpanah, H. Salehi Fathabadi, B. H. Khalaj, S. Khodayifar, and P. M. Pardalos) *Journal of Network and Computer Applications*, 41 (2014), pp. 217 - 227.
331. “*Solving maximum clique in sparse graphs: an $O(nm+2^{d/4})$ algorithm for d -degenerate graphs*” (Austin Buchanan, Jose Walteros, Sergiy Butenko, and Panos M. Pardalos) *Optimization Letters*, Vol 8, No. 5 (2014), pp. 1611-1617.
332. “*Online heuristic for the preemptive single machine scheduling problem of minimizing the total weighted completion time*” (Mikhail Batsyn, Boris Goldengorin, Panos M. Pardalos, and Pavel Sukhov) *Optimization Methods and Software*, Vol 29, No 5 (2014) pp. 955-963.
333. “*Measures of uncertainty in market network analysis*” (Valery A Kalyagin, Alexander P Koldanov, Petr A Koldanov, Panos M Pardalos, and Victor Zamaraev) *Physica A: Statistical Mechanics and its Applications*, Volume 413, 1 (November 2014), pp. 59 - 70.
334. “*Dynamics of cluster structures in financial market analysis*” (Anton Kocheturov, Mikhail Batsyn, and Panos M. Pardalos) *Physica A: Statistical Mechanics and its Applications*, Volume 413, 1 (November 2014), pp. 523 - 533.
335. “*Heuristics for Minimum Spanning K -tree Problem*” (Roman E. Shangin and Panos M. Pardalos) *Procedia Computer Science*, (2nd International Conference on Information Technology and Quantitative Management, ITQM 2014) Volume 31 (2014), pp. 1074 - 1083.
336. “*MBPOA-based LQR Controller and Its Application to the Double-parallel Inverted Pendulum System*” (Ling Wang, Haoqi Ni, Weifeng Zhou, Panos M. Pardalos, Jiating Fang, and Minrui Fei) *Engineering Applications of Artificial Intelligence*, Volume 36 (November 2014), pp. 262 - 268.
337. “*Finding multiple roots of box-constrained system of nonlinear equations with a biased random-key genetic algorithm*” (R. M. A. Silva, M. G. C. Resende, and P. M. Pardalos), *Journal of Global Optimization*, Vol 60, No. 2 (2014), pp. 289-306.
338. “*Exact Model for the Cell Formation Problem*” (Ilya Bychkov, Mikhail Batsyn, and Panos M. Pardalos), *Optimization Letters*, Vol. 8. No 8 (2014), pp. 2203-2210.
339. “*Speeding up branch and bound algorithms for solving the maximum clique problem*” (Evgeny Maslov, Mikhail Batsyn, and Panos M. Pardalos), *Journal of Global Optimization*, Vol. 59 (2014), pp. 1-21.
340. “*Characteristics of Spatial Synchronization of Encephalograms in Left and Right-handed Subjects in Resting State and During Cognitive Testing: A Graph-theory Analysis*” (M.V. Lukoyanov, I.S. Grechikhin, V.A. Kalyagin, P.M. Pardalos, and I.V. Mukhina), *Modern Technologies in Medicine* Vol. 6, No.2 (2014), pp. 6-13.
341. “*A Survey of Support Vector Machines with Uncertainties*” (Ximing Wang, Panos M. Pardalos) *Annals of Data Science*, (2014) 1 (3-4), pp. 293 - 309.

342. “*Pareto-optimal front of cell formation problem in group technology*” (Julius Zilinskas, Boris Goldengorin, and Panos M. Pardalos), *Journal of Global Optimization*, Vol. 61, No 1 (January 2015), pp. 91-108.
343. “*Inverse Max+Sum Spanning Tree Problem by Modifying the Sum-cost Vector under Weighted l_∞ Norm*” (Xiucui Guan, Panos M. Pardalos, Xia Zuo) *Journal of Global Optimization*, Vol. 61, No 1 (January 2015), pp. 165-182.
344. “*Coordination of production and transportation in supply chain scheduling*” (Jun Pei, Panos M. Pardalos, Xinbao Liu, Wenjuan Fan, Shanlin Yang and Ling Wang), *Journal of Industrial and Management Optimization*, Vol. 11, No 2 (April 2015), pp. 399-419.
345. “*Single machine serial-batching scheduling with independent setup time and deteriorating job processing times*” (Jun Pei, A.Xinbao Liu, Panos M. Pardalos, Wenjuan Fan, and Shanlin Yang), *Optimization Letters*, Vol. 9, No. 1 (2015), pp. 91-104.
346. “*A tolerance-based heuristic approach for the weighted independent set problem*” (B.I. Goldengorin, D.S. Malyshev, P.M. Pardalos, and V.A. Zamaraev), *Journal of Combinatorial Optimization*, Vol. 29, No. 2 (2015), pp. 433-450.
347. “*Iterated local search embedded adaptive neighborhood selection approach for the multi-depot vehicle routing problem with simultaneous deliveries and pickups*” (Jian Li, Panos M. Pardalos, Hao Sun, Jun Pei, Yong Zhang) *Expert Systems with Applications*, Vol 42 No. 7 (2015), pp. 3551-3561.
348. “*Heuristics for the Design of Reliable Networks with k-Tree Topology*” (Roman E. Shangin, Panos M. Pardalos, and Anatoly V. Panyukov) *International Journal of Artificial Intelligence*, Volume 13, Number 1 (March 2015), pp. 165-183.
349. “*Integer Programming Approach for Finding the Most and the Least Central Cliques*” (Chrysafis Vogiatzis, Alexander Veremyev, Eduardo L. Pasiliao, and Panos M. Pardalos) *Optimization Letters* Vol. 9, No. 4 (2015), pp. 615-633.
350. “*Preemptive scheduling in a two-stage supply chain to minimize the makespan*” (Jun Pei, Wenjuan Fan, Panos M. Pardalos, Xinbao Liu, Boris Goldengorin, and Shanlin Yang), *Optimization Methods and Software*, Volume 30, Issue 4 (2015), pp. 727-747.
351. “*The clique problem for graphs with a few eigenvalues of the same sign*” (D. S. Malyshev and P. M. Pardalos) *Optimization Letters*, Vol. 9 no 5 (2015), pp. 839-843.
352. “*Reduction of CO₂ Emissions in Cumulative Multi-Trip Vehicle Routing Problems with Limited Duration*” (Didem Cinar, Konstantinos Gakis, and Panos M. Pardalos) *Environmental Modeling and Assessment*, Volume 20, Issue 4 (2015), pp. 273-284.
353. “*Robust Physiological Mappings: From Non-invasive to Invasive*” (M. N. Syed, P. G. Georgiev, and P. M. Pardalos) *Cybernetics and Systems Analysis*, (January 2015), Volume 51, Issue 1, pp. 96-104.
354. “*Reinforcement Learning in Video Games Using Nearest Neighbor Interpolation and Metric Learning*” (Matthew S. Emigh, Evan G. Kriminger, Austin J. Brockmeier, Jose C. Principe and Panos M. Pardalos) *IEEE Transactions on Computational Intelligence and AI in Games*, 8(1), pp. 56-66 (2016).

355. “*Serial batching scheduling of deteriorating jobs in a two-stage supply chain to minimize the makespan*” (Jun Pei, Panos M. Pardalos, Xinbao Liu, Wenjuan Fan, and Shanlin Yang) *European Journal of Operations Research*, Volume 244, Issue 1 (2015), pp. 13 - 25.
356. “*Optimal-constrained multicast sub-graph over coded packet networks*” (M. A. Raayatpanah, H. Salehi Fathabadi, H. Bahramgiri, P. M. Pardalos), *Journal of Combinatorial Optimization*, Vol 29, No. 4 (2015), pp. 723-738
357. “*Elevator Dispatching Problem: a Mixed Integer Linear Programming Formulation and Polyhedral Results*” (Mirko Ruokokoski, Harri Ehtamo, and Panos M. Pardalos), *Journal of Combinatorial Optimization*, Vol 29 No. 4 (2015), pp. 750-780.
358. “*A Combinatorial Assessment Method for the Sequencing Problem and its Application in Waterway Traffic Environments*” (Tingrong Qin, Weijiong Chen, Panos M. Pardalos, and Qinyou Hu) *Environ. Model. Assess.*, Volume 20, Issue 2 (April 2015), pp 145-158.
359. “*On multivariate network analysis of statistical data sets with different measures of association*” (V. A Kalyagin, A. P Koldanov, P. M Pardalos) *Annals of Mathematics and Artificial Intelligence*, Vol 76, No 1-2 (February 2016), pp. 83-92.
360. “*Constrained Subspace Classifier For High Dimensional Datasets*” (Orestis Panagopoulos, Vijay Pappu, Petros Xanthopoulos, and Panos M. Pardalos) *Omega, The International Journal of Management Science*, Volume 59, Part A, (March 2016), pp. 40-46.
361. “*Sparse Proximal Support Vector Machines for Feature Selection in High Dimensional Datasets*” (Orestis Panagopoulos, Vijay Pappu, Petros Xanthopoulos, and Panos M. Pardalos) *Expert Systems With Applications*, Volume 42, Issue 23, (December 2015), pp. 9183-9191.
362. “*An equivalent transformation of multi-objective optimization problems*” (Masoud Zarepisheh and Panos M. Pardalos) *Annals of Operations Research*, Vol. 249 (Issue 1-2), pp 5-15 (2017)
363. “*Stability Analysis in Discrete Optimization Involving Generalized Addition Operations*” (Vyacheslav V. Chistyakov and Panos M. Pardalos) *Journal of Optimization Theory and Applications*, Volume 167, Issue 2 (2015), pp. 585-616.
364. “*An Adaptive Simplified Human Learning Optimization Algorithm*” (Ling Wang, Haoqi Ni, Ruixin Yang, Panos M. Pardalos, Xin Du, and Minrui Fei) *Information Sciences*, 320 (2015), pp. 126-139.
365. “*On the minimization of traffic congestion in road networks with tolls*” (F. Stefanello, L. S. Buriol, M. J. Hirsch, P. M. Pardalos, T. Querido, M. G. C. Resende, and M. Ritt) *Annals of Operations Research*, Vol. 249 (Issue 1-2), pp 119-139 (2017).
366. “*A factory crane scheduling problem with task preemption allowed*” (Xu Cheng, Lixin Tang, and Panos M. Pardalos), *Journal of Global Optimization*, (December 2015), Volume 63, Issue 4, pp. 729-755
367. “*Scheduling jobs on a single serial-batching machine with dynamic job arrivals and multiple job types*” (Jun Pei, Xinbao Liu, Wenjuan Fan, Panos M. Pardalos, Athanasios Migdalas, and Shanlin Yang), *Annals of Mathematics and Artificial Intelligence*, Vol 76, No 1-2 (February 2016), pp. 215-228.

368. “*Scheduling Deteriorating Jobs on a Single Serial-batching Machine with Multiple Job Types and Sequence-dependent Setup Times*” (Jun Pei, Xinbao Liu, Panos M. Pardalos, Wenjuan Fan, Shanlin Yang) *Annals of Operations Research*, Vol. 249 (Issue 1-2), pp 175-195 (2017).
369. “*A fast greedy sequential heuristic for the vertex colouring problem based on bitwise operations*” (Larisa Komosko, Mikhail Batsyn, Pablo San Segundo, and Panos M. Pardalos), *Journal of Combinatorial Optimization*, Volume 31, Issue 4 (2016), pp. 1665-1677.
370. “*Serial-batching Scheduling with Time-dependent Setup Time and Effects of Deterioration and Learning on a Single-machine*” (Jun Pei, Xinbao Liu, Panos M. Pardalos, Athanasios Migdalas, and Shanlin Yang), *Journal of Global Optimization*, Vol 67 (2017), pp 251-262.
371. “*A Human Learning Optimization Algorithm and Its Application to Multi-dimensional Knapsack Problems*” (Ling Wang, Ruixin Yang, Haoqi Ni, Wei Ye, Minrui Fei, and Panos M. Pardalos) *Applied Soft Computing*, Vol. 34 (September 2015), pp. 736-743.
372. “*A Priority-Based Genetic Algorithm for a Flexible Job Shop Scheduling Problem*” (Didem Cinar, Jose Antonio Oliveira, Y. Ilker Topcu, and Panos M. Pardalos) *Journal of Industrial and Management Optimization*, Volume 12, Number 4 (2016), pp. 1391 - 1415.
373. “*Optimization for a three-stage production system in the Internet of Things: Procurement, production and product recovery, and acquisition*” (C. Fang, X. Liu, P.M. Pardalos, J. Pei) *International Journal of Advanced Manufacturing Technology*, Volume 83, Issue 5, (2016) pp. 689-710.
374. “*Intelligent virtual reference feedback tuning and its application to heat treatment electric furnace contro*” (Ling Wang, Haoqi Ni; Ruixin Yang; Panos M. Pardalos; Li Jia; Minrui Fei) *Engineering Applications of Artificial Intelligence* Vol 46 (2015), pp. 1-9.
375. “*Identifying Cognitive States using Regularity Partitions*” (Ioannis P. Pappas and Panos M. Pardalos) *PLoS ONE PLOS ONE* — DOI:10.1371/journal.pone.0137012 (August 28, 20150).
376. “*A Python/C++ library for bound-constrained global optimization using biased random-key genetic algorithm*” (R. M. A. Silva, M. G. C. Resende, and P. M. Pardalos), *Journal of Combinatorial Optimization*, Vol. 30 No. 3 (2015): 710-728.
377. “*Robust Chance-Constrained Support Vector Machines with Second-Order Moment Information*” (Ximing Wang and Panos M. Pardalos) *Annals of Operations Research*, Volume 263, Issue 1-2 (2018), pp. 45-68.
378. “*Solving a supply chain scheduling problem with non-identical job sizes and release times by applying a novel effective heuristic algorithm*” (Jun Pei, Xinbao Liu, Panos M. Pardalos, Wenjuan Fan, Ling Wang, and Shanlin Yang) *International Journal of Systems Science*, Volume 47, Issue 4 (2016), pp. 765-776.
379. “*Information Theory Perspective on Network Robustness*” (Tiago A. Schieber, Laura Carpi, Alejandro C. Frery, Osvaldo A Rosso, Panos M. Pardalos, and Martin G. Ravetti) *Physics Letters A*, Volume 380, Issue 3, (January 2016), pp. 359-364.
380. “*A new exact maximum clique algorithm for large and massive sparse graphs*” (Pablo San Segundo, Alvaro Lopez, and Panos M. Pardalos) *Computers and Operations Research* Volume 66, (February 2016), pp. 81 - 94.

381. “*The pattern of longitudinal change in serum creatinine and ninety-day mortality after major surgery*” (Korenkevych D., Ozrazgat-Baslanti T., Thottakkara P., Hobson CE., Pardalos P., Momcilovic P., Bihorac A.), *Annals of Surgery*, 263(6):1219-1227, June 2016.
382. “*A Modified Active Set Algorithm for Transportation Discrete Network Design Bi-Level Problem*” (Ximing Wang and Panos M. Pardalos) *Journal of Global Optimization*, Vol 67 (2017), pp 325-342.
383. “*A Study on Decision Making of Cutting Stock with Frustum of Cone Bars*” (Lin Liu, Xinbao Liu, Jun Pei, Wenjuan Fan, Panos M. Pardalos) *Operational Research*, 17(1): 187-204 (2017).
384. “*Critical hereditary graph classes: a survey*” (D. S. Malyshev and P. M. Pardalos) *Optimization Letters*, Vol 10, No 8(2016), pp 1593-1612.
385. “*Closed-loop supply chain inventory management with recovery information of reusable containers*” (Tianji Yang, Chao Fu, Xinbao Liu, Jun Pei, Lin Liu, and Panos M. Pardalos), *Journal of Combinatorial Optimization*, Vo 35, No. 1 (2018), pp. 266-292.
386. “*Minimizing the makespan for a serial-batching scheduling problem with arbitrary machine breakdown and dynamic job arrival,*” (Jun Pei, Xinbao Liu, Wenjuan Fan, Panos Pardalos, Athanasios Migdalas, Boris Goldengorin), *International Journal of Advanced Manufacturing Technology*, Volume 86, Issue 9 (2016), pp. 3315-3331.
387. “*Real options approach to explore the effect of organizational change on IoT development project,*” (Zhiping Zhou, Xinbao Liu, Jun Pei, Panos M. Pardalos, Lin Liu, Chao Fu) *Optimization Letters*, June 2017, Volume 11, Issue 5, pp. 995-1011.
388. “*Multi-depot vehicle routing problem with time windows under shared depot resources*” (Jian Li, Yang Li, and Panos M. Pardalos) *Journal of Combinatorial Optimization*, Vol. 31, No. 3 (2016), pp. .515-532.
389. “*Dynamics of Cluster Structures in Stock Market Networks* (A. Kocheturov, M. Batsyn and P. Pardalos) *Journal of the New Economic Association*, 2015, vol. 28, issue 4, pp. 12-30.
390. “*A hybrid multi-objective evolutionary algorithm based on NSGA-II for practical scheduling with release times in steel plants*” (Jianyu Long, Zhong Zheng, Xiaoqiang Gao, and Panos M. Pardalos) *Journal of the Operational Research Society*, (2016) 67(9), pp. 1184-1199.
391. “*Tikhonov Regularization for Infeasible Absolute Value Equations*” (Hossein Moosaei , Saeed Ketabchi , and Panos M. Pardalos) *Optimization*, Vol. 65, No. 8 (2016), pp. 1531-1537.
392. “*A 2-Phase Constructive Algorithm for Cumulative Vehicle Routing Problems with Limited Duration*” (Didem Cinar , Konstantinos Gakis, and Panos M. Pardalos), *Expert Systems With Applications*, Vol. 56 No. 1 (2016), pp. 48-58.
393. “*Pareto-based multi-objective node placement of industrial wireless sensor networks using binary differential evolution harmony search*” (L Wang, L An, HQ Ni, W Ye, PM Pardalos, and MR Fei) *Advances in Manufacturing*, Volume 4, Issue 1 (2016), pp. 66-78.
394. “*Stochastic Subgradient Descent Method for Large-Scale Robust Chance-Constrained Support Vector Machines*” (Ximing Wang, Neng Fan, and Panos M. Pardalos) *Optimization Letters*, June 2017, Volume 11, Issue 5, pp. 1013-1024.

395. “*On the Deployment of Citizens’ Privacy Preserving Collective Intelligent eBusiness Models in Smart Cities*” (Artemis Avgerou, Panayotis E. Nastou, Dimitra Nastouli, Panos M. Pardalos, and Yannis C. Stamatiou) *International Journal of Security and Its Applications*, Vol. 10, No. 2 (2016), pp.171-184.
396. “*Heuristics for the network design problem with connectivity requirements*” (Roman E. Shangin, Panos Pardalos), *Journal of Combinatorial Optimization*, Volume 31, Issue 4 (2016), pp. 1461-1478.
397. “*Mixed-Integer LP Model for Volt/var Control and Energy Losses Minimization in Distribution Systems*” (Mariana Resener, Sergio Hanera, Lus A. Pereira, and Panos M. Pardalos) *Electric Power Systems Research*, Volume 140, November 2016, pp 895-905.
398. “*A novel trust inference framework for web-based scenarios harnessed by social network and Web of Trust- a heuristic approach*” (Wenjuan Fan, Jun Pei, S. Ding, Panos M. Pardalos, Ming Kong, Shanlin Yang), *Informatica* Vol. 27, No. 2 (2016), pp. 405-432.
399. “*Dynamic-programming based inequalities for the unbounded integer knapsack problem*” (Xueqi He, Joseph C. Hartman, Panos M. Pardalos), *Informatica* Vol. 27, No. 2 (2016), pp. 433-450.
400. “*A diverse human learning optimization algorithm*” (Ling Wang, Lu An, Jiaying Pi, Minrui Fei, Panos M. Pardalos) , *Journal of Global Optimization*, Vol 67 (2017), pp 283-323.
401. “*Application of Machine Learning Techniques to High-Dimensional Clinical Data to Forecast Postoperative Complications*” (Paul Thottakkara, Tezcan Ozrazgat-Baslanti, Bradley B. Hupf, Parisa Rashidi, Panos Pardalos, Petar Momcilovic, Azra Bihorac) *PLoS ONE* 11(5): e0155705. doi:10.1371/journal.pone.0155705
402. “*A branch-and-price algorithm for production routing problems with carbon cap-and-trade*” (Yuzhuo Qiu, Jun Qiao, Panos M. Pardalos) *Omega, The International Journal of Management Science* 68 (2017), pp. 49-61.
403. “*Improved Infra-Chromatic Bound for Exact Maximum Clique Search*” (Pablo San Segundo, Alexey Nikolaev, Mikhail Batsyn, Panos M. Pardalos), *Informatica* Vol. 27, No. 2 (2016), pp. 463-487.
404. “*Uniform parallel batch machines scheduling considering transportation using a hybrid DPSO-GA algorithm*” (Lu Jiang, Jun Pei, Xinbao Liu, Panos M. Pardalos, Yunjie Yang, Xiaofei Qian), *International Journal of Advanced Manufacturing Technology*, (March 2017), Volume 89, Issue 5–8, pp. 1887-1900.
405. “*On a new edge function on complete weighted graphs and its application for locating Hamiltonian cycles of small weight.*” (Panayotis E. Nastou, Vasilis Papadinas, Panos M. Pardalos, Yannis C. Stamatiou), *Optimization Letters* 10(6): 1203-1220 (2016)
406. “*Single-machine serial-batching scheduling with a machine availability constraint, position-dependent processing time, and time-dependent set-up time*” (Jun Pei, Xinbao Liu, Panos M. Pardalos, K. Li , Wenjuan Fan, Athanasios Migdalas), *Optimization Letters* 11(7):1257-1271 (2017).
407. “*Improved initial vertex ordering for exact maximum clique search*” (Pablo San Segundo, Alvaro Lopez, Mikhail Batsyn, Alexey Nikolaev, Panos M. Pardalos), *Applied Intelligence*, Volume 45, Issue 3, pp 868-880 (2016) doi:10.1007/s10489-016-0796-9.

408. “*A game-theoretic analysis of information security investment for multiple firms in a network*” (Xiaofei Qian, Xinbao Liu, Jun Pei, Panos M. Pardalos, Lin Liu), *Journal of the Operational Research Society* Vol. 68, No. 10 (2017), pp. 1290-1305.
409. “*An Economic Dispatch Algorithm for Congestion Management of Smart Power Networks - An Oblivious Routing Approach*” (Kianoosh G. Boroojeni, M. Hadi Amini, S. S. Iyengar, Mohsen Rahmani, Panos M. Pardalos), *Energy Systems*, Vol 8, No 3 (August 2017), pp. 643-667.
410. “*A Probabilistic Model for Multi-Contestant Races*” (K. Gakis, P. Pardalos, C.H. Choi, J.H. Park), *Athens Journal of Sports*, (July 2016).
411. “*Scheduling the Truckload Operations in Automated Warehouses with Alternative Aisles for Pallets*” (Didem Cinar, Jose Antonio Oliveira, Y. Ilker Topcu, Panos M. Pardalos), *Applied Soft Computing*, Vol 52 (2017), pp. 566-574.
412. “*Uniformly most powerful unbiased test for conditional independence in Gaussian graphical model*” (Koldanov Petr, Koldanov Alexander, Kalyagin Valeriy and Pardalos Panos) *Statistics and Probability Letters*, 122 (2017), pp. 90-95.
413. “*The reduction of computation times of upper and lower tolerances for selected combinatorial optimization problems*” (Marcel Turkensteen, Dmitry Malyshev, Boris Goldengorin, and Panos M. Pardalos), *Journal of Global Optimization* (July 2017), Volume 68, Issue 3, pp 601-622.
414. “*Optimal production planning in a hybrid manufacturing and recovering system based on the internet of things with closed loop supply chains*” (Chang Fang, Xinbao Liu, Jun Pei, Wenjuan Fan, Panos M. Pardalos), *Operational Research*, 16(3), pp. 543-557 (2016).
415. “*Quantification of networks structural dissimilarities* (Tiago A. Schieber, Laura Carpi, Albert Díaz-Guilera, Panos M. Pardalos, Cristina Masoller and Martín G. Ravetti), *Nature Communications* 8, online, Article number: 13928 (2017).
416. “*Traffic congestion and the lifetime of networks with moving nodes*” (Xianxia Yang, Jie Li, Cunlai Pu, Meichen Yan, Rajput Ramiz Sharafat, Jian Yang, Konstantinos Gakis, and Panos M. Pardalos), *Physical Review E* 95, 012322 (2017).
417. “*Does Economic Crisis Force to Consumption Changes Regarding Fruits and Vegetables?*” (George Vlontzos, Marie Noelle Duquenne, Rainer Haas, and Panos M. Pardalos), *International Journal of Agricultural and Environmental Information Systems*, Volume 8, Issue 1, pp. 41-48, IGI Global Eds, DOI: 10.4018/IJAEIS.2017010104 (2017).
418. “*An enhanced bitstring encoding for exact maximum clique search in sparse graphs*” (Pablo San Segundo, Jorge Artieda, Mikhail Batsyn, and Panos M. Pardalos), *Optimization Methods and Software*, Vol. 32, No. 2 (2017), pp. 312-335.
419. “*A robust optimization approach for multicast network coding under uncertain link costs*” (H. Ghasvari, M. A. Raayatpanah, P. M. Pardalos), *Optimization Letters*, Vol 11, No. 2 (2017), pp. 429-444.
420. “*A parallel maximum clique algorithm for large and massive sparse graphs*” (Pablo San Segundo, Alvaro Lopez, Jorge Artieda, Panos M. Pardalos), *Optimization Letters*, Vol 11, No. 2 (2017), pp. 343-358.
421. “*On positive-influence target-domination*” (Guangmo Tong, Weili Wu, Panos M. Pardalos, Ding-Zhu Du), *Optimization Letters*, Vol 11, No. 2 (2017), pp. 419-427.

422. “A polynomial time algorithm for the minimum flow problem in time-varying networks” (S. Khodayifar, M.A. Raayatpanah and P.M. Pardalos), *Annals of Operations Research*, 272 (1-2), pp. 29-39 (2019).
423. “Competition of pricing and service investment between IoT-based and traditional manufacturers” (Zhiping Zhou, Xinbao Liu, Jun Pei, and Panos M. Pardalos), *Journal of Industrial and Management Optimization* (2018), 14 (3), pp. 1203-1218.
424. “Assess and prognosticate green house gas emissions from agricultural production of EU countries, by implementing DEA Window analysis and artificial neural networks” (G. Vlontzos and P. M. Pardalos) *Renewable & Sustainable Energy Reviews*, Vol. 76, pp. 155-162, <http://dx.doi.org/10.1016/j.rser.2017.03.054> (2017).
425. “The effect of yield rate in a general price-setting newsvendor model with a yield dependent secondary market” (Li Yu, Jun Pei, Xinbao Liu, Wenjuan Fan, Panos M. Pardalos) *International Transactions in Operational Research*, Vol. 26, Issue 6, pp 2337-2361 (2019).
426. “Single-machine and Parallel-machine Serial-batching Scheduling Problems with Position-based Learning Effect and Linear Setup Time” (Jun Pei, Bayi Cheng, Xinbao Liu, Panos M. Pardalos, and Min Kong), *Annals of Operations Research*, 272 (1-2), pp. 217-241 (2019).
427. “A Convex Model for the Optimization of Distribution Systems with Distributed Generation, (Resener M., Haffner S., Pardalos P.M., Pereira L.A.) *Advances in Energy System Optimization. Trends in Mathematics. Birkhäuser, Cham* (editors: Bertsch V., Fichtner W., Heuveline V., Leibfried T.) (2017)
428. “Optimal decision for the market graph identification problem in a sign similarity network” (Kalyagin V.A., Koldanov A.P., Koldanov P.A., Pardalos P.M.) *Annals of Operations Research*, 266 (1-2, Special issue on “Analytical models for financial modeling and risk management”), pp. 313-327 (2018).
429. “A Hybrid-coded Human Learning Optimization for mixed-variable optimization problems” (Ling Wang, Ji Pei, Muhammad Ilyas Menhas, Jiaying Pi, Minrui Fei, Panos M. Pardalos) *Knowledge-Based Systems*, Volume 127, (July 2017) , pp. 114-125.
430. “Data mining and optimization issues in the food industry, (Vlontzos G., and Pardalos MP.), *International Journal of Sustainable Agricultural Management and Informatics*, Vol. 3(1), pp. 44-64, (2017).
431. “Serial-batching group scheduling with release times and the combined effects of deterioration and truncated job-dependent learning” (Wenjuan Fan, Jun Pei, Xinbao Liu, Panos M. Pardalos, Min Kong), *Journal of Global Optimization*, Volume 71, Issue 1 (2018), pp. 147-163, <https://link.springer.com/article/10.1007/s10898-017-0536-7>
432. “A stochastic production planning problem in hybrid manufacturing and remanufacturing systems with resource capacity planning” (Chang Fang, Xinbao Liu, Panos M. Pardalos, Jianyu Long, Jun Pei, and Chao Zuo) *Journal of Global Optimization*, Vol. 68, No 4 (August 2017), pp. 851 - 878.
433. “Inverse Max+Sum Spanning Tree Problem under Hamming Distance by Modifying the Sum-cost Vector” (Xiucui Guan, Xinyan He, Panos M. Pardalos, Binwu Zhang) *Journal of Global Optimization*, 69:911-925 (2017).

434. “Inverse max+sum spanning tree problem under weighted l_1 norm by modifying the sum-cost vector” (Xiucui Guan, Panos M. Pardalos, Binwu Zhang) *Optimization Letters*, 12(5), pp. 1065-1077 (2018).
435. “Single-machine Scheduling with Learning Effect and Resource-dependent Processing Times in the Serial-batching Production” (Jun Pei, Xinbao Liu, B. Liao, Panos M. Pardalos, Min Kong) *Applied Mathematical Modelling*, Volume 58 (2018), pp 245-253.
436. “Competition of pricing and service investment between IoT-based and traditional manufacturers” (Zhiping Zhou, Xinbao Liu, Jun Pei, Panos M. Pardalos, & Hao Cheng) *Journal of Industrial and Management Optimization*, 14(3) (July 2018), pp. 1203-1218.
437. “Integrated scheduling of production and distribution for manufacturers with parallel batching facilities” (Bayi Cheng, Jun Pei, Kai Li, and Panos M. Pardalos), *Optimization Letters*, Vol. 12(7), pp. 1609-1623 (2018).
438. “An accelerating Benders’ decomposition approach to the integrated supply chain network design with distributed generation” (S. Khodayifar, M. A. Raayatpanah, and P. M. Pardalos), *Energy Systems*, (August 2018), Volume 9, Issue 3, pp. 647–667.
439. “Minimizing average lead time for the coordinated scheduling problem in a two-stage supply chain with multiple customers and multiple manufacturers” (Ömer Faruk Yilmaz, Panos M. Pardalos), *Computers & Industrial Engineering*, Volume 114, December 2017, Pages 244-257
440. “A new game of information sharing and security investment between two allied firms”, (Xiaofei Qian, Xinbao Liu, Jun Pei & Panos M. Pardalos), *International Journal of Production Research*, Volume 56, Issue 12 (2018), pages 4069-4086.
441. “Security investment and information sharing in the market of complementary firms: impact of complementarity degree and industry size”, (Xinbao Liu, Xiaofei Qian, Jun Pei, Panos M. Pardalos), *Journal of Global Optimization* Volume 70, Issue 2 (2018), pp. 413-436, <https://doi.org/10.1007/s10898-017-0585-y>
442. “Information transmission on hybrid networks”, (Rongbin Chen, Wei Cui, Cunlai Pu, Jie Li, Bo Ji, Konstantinos Gakis, Panos M. Pardalos), *Physica A: Statistical Mechanics and its Applications*, Volume 490, 15 January 2018, Pages 524-532
443. “Testing for Environmental Kuznets Curve in EU Agricultural Sector through an Eco-(in)efficiency index”, (George Vlontzos, Spyros Niavis and Panos Pardalos), *Energies*, 10, 1992 (2017).
444. “A Novel Method of Finance Market Regulation Based on Control Overshoot”, (Wang, Juan, Pardalos, Panos M., Shen, Yue), *Journal of Systems Science and Information*, Oct., 2017, Vol. 5, No. 5, pp. 385-394
445. “An Improvement on Parametric ν -Support Vector Algorithm for Classification”, (Saeed Ketabchi, Hossein Moosaei, Mohamad Razzaghi, Panos M. Pardalos), *Annals of Operations Research*, May 2019, Volume 276, Issue 1-2, pp 155-168.
446. “A bi-objective load balancing model in a distributed simulation system using NSGA-II and MOPSO approaches”, (Shuxin Ding, Chen Chen, Bin Xin, Panos M. Pardalos), *Applied Soft Computing*, Volume 64, (February 2018), pp. 249-267.

447. “*Formulations and branch-and-cut algorithms for multi-product multi-vehicle production routing problems with startup cost*”, (Y Qiu, L Wang, X Xu, X Fang, PM Pardalos), *Expert Systems with Application*, Volume 98, 15 (May 2018), pp. 1-10.
448. “*Scheduling a Realistic Hybrid Flow Shop with Stage Skipping and Adjustable Processing Time in Steel Plants*”, (Y Qiu, L Wang, X Xu, X Fang, PM Pardalos), *Applied Soft Computing*, Volume 64, (March 2018), pp. 536-549.
449. “*A Branch-and-Cut Algorithm for Production Routing Problems with Time Windows*”, (Yuzhuo Qiu, Feng Gao, and Panos M. Pardalos), *Transportmetrica A-Transport Sciences*, Vol 14 (2018), pp. 177-191.
450. “*An algorithm for the shortest path improvement problem on rooted trees under the unit Hamming distance*”, (Binwu Zhang, Xiucui Guan, Panos M. Pardalos, and Chunyuan He), *Journal of Optimization Theory and Applications*, Vol. 178, Issue 2, No 11 (2018), pp 538-559.
451. “*A Hybrid VNS-HS Algorithm for a Supply Chain Scheduling Problem with Deteriorating Jobs*”, (Xinbao Liu, Shaojun Lu, Jun Pei and Panos M. Pardalos), *International Journal of Production Research*, Volume 56, 2018 - Issue 17, pp. 5758-5775.
452. “*A hybrid BA-VNS algorithm for coordinated serial-batching scheduling with deteriorating jobs, financial budget, and resource constraint in multiple manufacturers*”, (Jun Pei, Xinbao Liu, Wenjuan Fan, Panos M. Pardalos, and Shaojun Lu), *Omega, The International Journal of Management Science*, Vol 82 (January 2019), pp. 55-69.
453. “*Solving the degree-concentrated fault-tolerant spanning subgraph problem by DC programming*”, (Chenchen Wu, Yishui Wang, Zaixin Lu, Panos M. Pardalos, Dachuan Xu, Zhao Zhang, and Ding-Zhu Du), *Mathematical Programming*, Volume 169, Issue 1 (2018), pp. 255-275.
454. “*Reliability evaluation of a multicast over coded packet networks*”, (Mohammad A. Raayatpanah, Panos M. Pardalos), *Journal of Combinatorial Optimization.*, 35(3), pp 921-940 (2018).
455. “*Uniform parallel machine scheduling problems with fixed machine cost*”, (Kai Li, Hui-Juan Zhang, Ba-Yi Cheng, Panos M. Pardalos), *Optimization Letters* (2018) Vol. 12, pp 73-86 doi: <https://doi.org/10.1007/s11590-016-1096-3>
456. “*Production routing problems with reverse logistics and remanufacturing.*”, (Yuzhuo Qiu, Ming Ni, Liang Wang, Qinqin Li, Xuanjing Fang, Panos M. Pardalos), *Transportation Research Part E* 111 (2018), pp.87-100.
457. “*Benefit Analysis of Shared Depot Resources for Multi-depot Vehicle Routing Problem with Fuel Consumption*” (Jian Li, Rui Wang, Tingting Li, Zhixiong Lu, and Panos M. Pardalos), *Transportation Research Part D: Transport and Environment* , Volume 59, (March 2018), pp. 417-432.
458. “*Optimization techniques applied to planning of electric power distribution systems: a bibliographic survey*” (Mariana Resener, Sergio Haffner, Luis A. Pereira , and Panos M. Pardalos), *Energy Systems*, August 2018, Volume 9, Issue 3, pp 473-509.
459. “*MySurgeryRisk: Development and Validation of a Machine-Learning Risk Algorithm for Major Complications and Death after Surgery*” (Azra Bihorac, Tezcan Ozrazgat-Baslanti, Ashkan Ebadi, Amir Motaee, Mohcine Madkour, Panagote M. Pardalos, Gloria Lipori, William Hogan,

- Philip A. Efron, Frederick Moore, Lyle L. Moldawer, Daisy Zhe Wang, Charles E. Hobson, Parisa Rashidi, Xiaolin Li, Petar Momcilovic), *Annals of Surgery*, 269(4) pp 652-662, doi:10.1097/SLA.0000000000002706 (2019).
460. “*FPT-algorithms for some problems related to integer programming*” (D. V. Griбанov, D. S. Malyshev, P. M. Pardalos, and S. I. Veselov), *Journal of Combinatorial Optimization*, 35 (2018), pp. 1128-1146.
461. “*Investigating the impacting factors for the healthcare professionals to adopt Artificial Intelligence-based Medical Diagnosis Support System (AIMDSS)*” (Wenjuan Fan, Jingnan Liu, Shuwan Zhu, Panos M. Pardalos), *Annals of Operations Research*, Vol. 294, pp. 567-592 (2020) doi.org/10.1007/s10479-018-2818-y.
462. “*A hybrid ABC-TS algorithm for the unrelated parallel-batching machines scheduling problem with deteriorating jobs and maintenance activity.*” (Shaojun Lu, Xinbao Liu, Jun Pei, My T. Thai, Panos M. Pardalos), *Applied Soft Computing*, Volume 66, May 2018, pp 168-182.
463. “*Single-machine and Parallel-machine Parallel-batching Scheduling Considering Deteriorating jobs, Various Group, and Time-dependent Setup Time*” (Baoyu Liao, Jun Pei, Shanlin Yang, Panos M. Pardalos, Shaojun Lu), *Informatika*, Vol. 29, No. 2 (2018), pp 281-301.
464. “*A variable neighborhood search heuristic algorithm for production routing problems*” (Yuzhuo Qiu, Liang Wang, Xiaoling Xu, Xuanjing Fang, Panos M. Pardalos), *Applied Soft Computing*, Volume 66, May 2018, pp 311-318.
465. “*Ramp-loss nonparallel support vector regression: Robust, sparse and scalable approximation*” (Tang, Long, Tian, Yingjie, Yang, Chunyan, Panos M. Pardalos), *Knowledge-Based Systems*, Volume 147, 1 May 2018, Pages 55-67.
466. “*Group Testing with Geometry of Classical Groups over Finite Fields*” (Suogang Gao; Zengti Li; Weili Wu; Panos M. Pardalos; Dingzhu Du), *Journal of Algebraic Combinatorics*, Vol. 49, Issue 4, pp. 381-400 (2019).
467. “*A Robust Optimization Model for an Invasive Species Management Problem*” (Nahid Jafari, Austin Phillips, and Panos M. Pardalos), *Environmental Modeling & Assessment*, (2018) Volume 23, Issue 6, pp. 743-752.
468. “*Scheduling Step-deteriorating Jobs on Bounded Parallel batching Machines to Maximize the Total Net Revenue*” (Jun Pei, Xingming Wang, Wenjuan Fan, Panos M. Pardalos, Xinbao Liu), *Journal of Operational Research Society* , Volume 70, Issue 10 (Special issue on Computational Approaches and Data Analytics in Financial Services), pp. 1830-1847 (2019).
469. “*Massive datasets and machine learning for computational biomedicine: trends and challenges*” (Anton Kocheturov, Panos M. Pardalos, and Athanasia Karakitsiou), *Annals of Operations Research*, May 2019, Volume 276, Issue 1-2, pp 5-34.
470. “*The fixed charge transportation problem: a strong formulation based on Lagrangian decomposition and column generation*” (Yixin Zhao, Torbjörn Larsson, Elina Rönnberg, and Panos M. Pardalos), *Journal of Global optimization* 72 (2018), no. 3, pp. 517-538.
471. “*Detecting Critical Vertex Structures on Graphs: A Mathematical Programming Approach*” (Walteros, J. L., Veremyev, A., Pardalos, P. M., and E.L. Pasiliao), *Networks*, Vol. 73, No. 1 (2019), pp. 48-88.

472. “*Parallel algorithm portfolios with performance forecasting*” (D. Souravlias, I.S. Kotsireas, P.M. Pardalos & K.E. Parsopoulos), *Optimization Methods and Software*, Vol. 34, No. 6, pp 1231-1250 (2019).
473. “*Operating room planning and surgical case scheduling: a review of literature*” (Shuwan Zhu, Wenjuan Fan, Shanlin Yang, Jun Pei, Panos M. Pardalos), *Journal of Combinatorial Optimization*, April 2019, Volume 37, Issue 3, pp 757-805.
474. “*Optimal Long-Term Distributed Generation Planning and Reconfiguration of Distribution Systems: An Accelerating Benders’ Decomposition Approach*” (Salman Khodayifar, Mohammad A. Raayatpanah, Abbas Rabiee, Hamed Rahimian, Panos M. Pardalos), *Journal of Optimization Theory and Applications*, Volume 179, Issue 1 (Dec 2018), pp. 283-310.
475. “*An Improved Adaptive Human Learning Algorithm for Engineering Optimization*” (Ling Wang, Ji Pei, Yalan Wen, Jiaying Pi, Minrui Fei, Panos M. Pardalos), *Applied Soft Computing Journal*, Vol. 71 (2018), pp. 894-904.
476. “*A study on the effect of yield uncertainty in price-setting newsvendor models with additive-multiplicative demand*” (Li Yu, Wenjuan Fan, Jun Pei, Panos M. Pardalos), *Optimization Letters*, Volume 12, Issue 6 (2018), pp 1421-1441
477. “*A multi-objective evolutionary algorithm based on decomposition and constraint programming for the multi-objective team orienteering problem with time windows*” (Wanzhe Hu, Mahdi Fathi, Panos M. Pardalos), *Applied Soft Computing*, Volume 73, December 2018, Pages 383-393.
478. “*A BRKGA-DE algorithm for parallel-batching scheduling with deterioration and learning effects on parallel machines under preventive maintenance consideration*” (Min Kong, Xinbao Liu, Jun Pei, Hao Cheng, Panos M. Pardalos), *Annals of Mathematics and Artificial Intelligence*, Vol. 88, pp. 237-267 (2020).
479. “*Optimal production, replenishment, delivery, routing and inventory management policies for products with perishable inventory*” (Yuzhuo Qiu, Jun Qiao, Panos M. Pardalos), *Omega, The International Journal of Management Science*, Volume 82, Pages 193-204, (January 2019).
480. “*A hybrid multi-objective genetic local search algorithm for the prize-collecting vehicle routing problem*” (Jianyu Long, Zhenzhong Sun, Panos M. Pardalos, Ying Hong, Shaohui Zhang, Chuan Li), *Information Sciences*, Volume 478 (2019), pp. 40-61.
481. “*Noise-tolerant Techniques for Decomposition-based Multi-objective Evolutionary Algorithms*” (Juan Li, Bin Xin, Jie Chen and Panos M. Pardalos), *IEEE Transactions on Cybernetics*, Vol 50, no. 5 (2020), pp. 2274-2287 [doi:10.1109/TCYB.2018.2881227].
482. “*Continuous Variable Neighborhood Search (C-VNS) for Solving Systems of Nonlinear Equations*” (Jun Pei, Zorica Darzic, Milan Drazic, Nenad Mladenovic, Panos Pardalos), *INFORMS Journal on Computing*, 31(2):235-250 (2019).
483. “*Parallel-machine group scheduling with inclusive processing set restrictions, outsourcing option and serial-batching under the effect of step-deterioration*” (Baoyu Liao, Qingru Song, Jun Pei, Shanlin Yang, Panos Pardalos), *Journal of Global Optimization*, Vol. 78, pp. 717-742 (2020). doi.org/10.1007/s10898-018-0707-1

484. *Permutation flowshop manufacturing cell scheduling problems with deteriorating jobs and sequence dependent setup times under dominant machines* (Shaojun Lu, Xinbao Liu, Jun Pei, Panos M. Pardalos), *Optimization Letters*, Vol. 15, pp. 537-551 (2021), doi.org/10.1007/s11590-018-1322-2
485. *Parallel-batching scheduling with nonlinear processing times on a single and unrelated parallel machines* (Min Kong, Xinbao Liu, Jun Pei, Panos M. Pardalos, Nenad Mladenovic), *Journal of Global Optimization*, Vol. 78, pp. 693-715 (2020). doi.org/10.1007/s10898-018-0705-3
486. *Loss function, unbiasedness, and optimality of Gaussian graphical model selection* (Valery A. Kalyagin, Alexander P. Koldanov, Petr A. Koldanov, Panos M. Pardalos) *Journal of Statistical Planning and Inference*, Volume 201 (July 2019), pp 32-39
487. *A discussion of objective function representation methods in global optimization* (Panos M. Pardalos, Mahdi Fathi) *Frontiers of Engineering Management*, Vol. 5, Issue (4): 515-523 (2018).
488. *A novel perspective on multiclass classification: Regular simplex support vector machine* (Tang Long, Tian Yingjie, Panos M. Pardalos) *Information Sciences*, Vol. 480, pp 324-338 (April 2019)
489. *An Experimental Research on Closed Loop Supply Chain Management with Internet of Things* (Turan Paksoy, İsmail Karaoğlan, Hadi Gökçen, Panos M. Pardalos, Belkis Torğul) *Journal of Economics Bibliography*, Volume 3 (April 2016) Issue 1S, pp. 1-20.
490. *Solving a Continuous Periodic Review Inventory-Location Allocation Problem in Vendor-Buyer Supply Chain under Uncertainty* (Seyed Mohsen Mousavi, Panos M. Pardalos, Seyed Taghi Akhavan Niaki, Armin Fügenschuh, Mahdi Fathi) *Computers & Industrial Engineering*, Volume 128 (February 2019), pp 541-552.
491. *Optimal channel assignment with list-edge coloring* (Huijuan Wang, Panos M. Pardalos, Bin Liu) *Journal of Combinatorial Optimization*, Volume 38, Issue 1, pp 197-207 (July 2019).
492. *A comprehensive MILP model for the expansion planning of power distribution systems – Part II: Numerical results* (Mariana Resener, Sérgio Haffner, Luís A. Pereira, Panos M. Pardalos, Maicon J. S. Ramos) *Electric Power Systems Research*, Volume 170 (May 2019), pp 317-325
493. *Less is more approach: Basic variable neighborhood search for the Obnoxious p -median problem* (Jun Pei, Abdulaziz Alkandari, Raca Todosijevic, Nenad Mladenovic, Panos M. Pardalos) *International Transactions in Operational Research*, 27 (2020), pp. 480-493.
494. *Two-agent scheduling on bounded parallel-batching machines with an aging effect of job-position-dependent* (Jun Pei, Jinling Wei, Baoyu Liao, Xinbao Liu, Panos M. Pardalos) *Annals of Operations Research* Vol. 294, pp. 191-223 (2020) doi.org/10.1007/s10479-019-03160-y
495. *Parallel-batching machines scheduling problem with a truncated time-dependent learning effect via a hybrid CS-JADE algorithm* (Siwen Liu, Xinbao Liu, Jun Pei, Panos M. Pardalos, Qingru Song) *Optimization Methods and Software* Vol. 35, Issue 1 (2020), pp. 116-141 <https://www.tandfonline.com/doi/full/10.1080/10556788.2019.1577415>
496. *Absolute value equations with uncertain data* (M. A. Raayatpanah, H. Moosaei, P. M. Pardalos) *Optimization Letters*, Vol. 15, No 5 (2020), pp. 1145-1156. doi.org/10.1007/s11590-019-01385-1

497. “*The bi-objective critical node detection problem with minimum pairwise connectivity and cost: theory and algorithms*” (Juan Li, Panos M. Pardalos, Bin Xin, Jie Chen) *Soft Computing*, Vol 23, Issue 23 (2019), pp. 12729-12744.
498. “*A comprehensive MILP model for the expansion planning of power distribution systems – Part I: Problem Formulation*” (Mariana Resener, Sérgio Haffner, Luís A. Pereira, Panos M. Pardalos, Maicon J. S. Ramos) *Electric Power Systems Research*, Volume 170 (May 2019), pp 378-384.
499. “*An improved method for the hot strip mill production scheduling problem*” (Wanzhe Hu, Zhong Zheng, Xiaoqiang Gao, Panos M. Pardalos) *International Journal of Production Research*, Vol. 57, Issue 10, pp 3238-3254, (2019).
500. “*Vehicle Assignment in Site-Dependent Vehicle Routing Problems with Split Deliveries*” (Mikhail V. Batsyn, Ekaterina K. Batsyna, Ilya S. Bychkov, Panos M. Pardalos) *Operational Research Int J*, Vol. 21, pp. 399-423 (2021), doi.org/10.1007/s12351-019-00471-7
501. “*Controller Tuning Approach with robustness, stability and dynamic criteria for the original AVR System*” (M.J. Blondin, P. Sicard, P.M. Pardalos) *Mathematics and Computers in Simulation*, Volume 163, September 2019, pp 168-182.
502. “*Assessing diversity in multiplex networks*” (Laura C. Carpi, Tiago A. Schieber, Panos M. Pardalos, Gemma Marfany, Cristina Masoller, Albert Díaz-Guilera, Martín G. Ravetti) *Scientific Reports*, Volume 9, Article number: 4511 (2019).
503. “*On the complexity of quasiconvex integer minimization problem*” (A. Yu. Chirkov, D. V. Gribanov, D. S. Malyshev, P. M. Pardalos, S. I. Veselov & N. Yu. Zolotykh) *Journal of Global Optimization*, Volume 73, Issue 4, pp 761-788 (April 2019). [**2019 Journal of Global Optimization Best Paper Award.**]
504. “*Formulations and branch-and-cut algorithms for production routing problems with time windows*” (Yuzhuo Qiu, Liang Wang, Xuanjing Fang, Panos M. Pardalos & Boris Goldengorin) *Transportmetrica A: Transport Science*, Vol 14, Issue 8 (2018), pp. 669-690.
505. “*Discrete firefly algorithm with compound neighborhoods for asymmetric multi-depot vehicle routing problem in the maintenance of farm machinery*” (Jian Li, Tingting Li, Yugang Yu, Zhaotong Zhang, Panos M. Pardalos, Yi Zhang, Yunfeng Ma) *Applied Soft Computing*, Vol. 81 (August 2019), 105460 <https://www.sciencedirect.com/science/article/pii/S1568494619302224>
506. “*Computational approaches and data analytics in financial services: A literature review*” (Dimitris Andriosopoulos, Michalis Doumpos, Panos M. Pardalos, Constantin Zopounidis), *Journal of the Operational Research Society*, Volume 70, Issue 10 (Special issue on Computational Approaches and Data Analytics in Financial Services), pp. 1581-1599 (2019).
507. “*A Multi-Objective Model for Risk Mitigating in Supply Chain Design*” (Nooraei, Vahid; Fathi, Mahdi; Narenji, Masoud; Mellat-Parast, Mahour Mellat; Pardalos, P M; Stanfield, P M), *International Journal of Production Research*, Vol. 58, No. 5, pp. 1338-1361, (2020) <https://doi.org/10.1080/00207543.2019.1633024>
508. “*What are the Winning Conditions in Sports Competition with a Predetermined Cumulative Point System*” (H.J. Yun , C.H. Choi , P.M. Pardalos and J.H. Park), *Journal of Engineering and Applied Sciences*, Volume 14, Issue 17, pp 6519-6524 (2019).

509. “*Promoting new energy vehicles consumption: The effect of implementing carbon regulation on automobile industry in China*” (Xiaoxi Zhu, Minglun Ren, Guangdong Wu, Jun Pei, Panos M. Pardalos), *Computers & Industrial Engineering*, Vol. 135, pp 211-226.
510. “*A holistic optimization approach for inverted cart-pendulum control tuning*” (Blondin, M.J. & Pardalos, P.M.), *Soft Computing*, published online, Vol. 24, Issue 6, pp. 4343-4359 <https://doi.org/10.1007/s00500-019-04198-7> (2020)
511. “*Model simplification for supervised classification of metabolic networks*” (Ilaria Granata, Mario R. Guarracino, Valery A. Kalyagin, Lucia Maddalena, Ichcha Manipur, Panos M. Pardalos), *Annals of Mathematics and Artificial Intelligence*, Vol. 88, pp. 91-104 (2020).
512. “*Dynamic search trajectory methods for global optimization*” (S.N. Alexandropoulos, P.M. Pardalos, M.N. Vrahatis), *Annals of Mathematics and Artificial Intelligence*, Vol. 88, pp. 3-37 (2020)
513. “*Extended vertical lists for temporal pattern mining from multivariate time series* (Anton Kocheturov, Petar Momcilovic, Azra Bihorac. Panos M. Pardalos), *Expert Systems*, (Sept 2019), 36:e12448, <https://doi.org/10.1111/exsy.12448>
514. “*A bi-objective dynamic collaborative task assignment under uncertainty using modified MOEA/D with heuristic initialization*” (Wenqin Xu, Chen Chen, Shuxin Ding, Panos M. Pardalos), *Expert Systems with Applications*, Volume 140 (February 2020), 112844 <https://doi.org/10.1016/j.eswa.2020.112844>
515. “*Exponential quality function for community detection in complex networks*”, (Džamić, Dušan; Pei, Jun; Marić, Miroslav; Mladenović, Nenad; Pardalos, Panos), *International Transactions in Operational Research*, 27 (2020), pp. 245-266.
516. “*Investigating remanufacturing competition with yield uncertainty on market share, profit, and consumer surplus*” (Xiaoxi Zhu, Miaomiao Wang, Jun Pei, Panos M. Pardalos), *International Transactions in Operational Research*, Vol. 27, No. 5, pp. 2584-2615 <http://dx.doi.org/10.1111/itor.12712> (2020).
517. “*Less is more: variable neighborhood search for integrated production and assembly in smart manufacturing*” (Shaojun Lu, Jun Pei, Xinbao Liu, Nenad Mladenovic, Panos M. Pardalos), *Journal of Scheduling*, Vol. 23, pp. 649-664 (2020), DOI: 10.1007/s10951-019-00619-5
518. “*Two-stage hybrid flow shop scheduling on parallel batching machines considering a job-dependent deteriorating effect and non-identical job sizes*” (Siwen Liu, Jun Pei, Hao Cheng, Xinbao Liu, Panos M. Pardalos), *Applied Soft Computing Journal*, 84 (2019) 105701 <https://www.sciencedirect.com/science/article/pii/S156849461930482X?via%3Dihub>
519. “*A Smooth Double Proximal Primal-Dual Algorithm for a Class of Distributed Nonsmooth Optimization Problem*” (Wei, Yue, Fang, Hao, Zeng, Xianlin, Chen, Jie, Pardalos, Panos), *IEEE Transactions on Automatic Control*, Vol 65, Issue 4 (2020), pp. 1800-1806.
520. “*Information security decisions for two firms in a market with different types of customers*” (Xiaofei Qian, Jun Pei, Xinbao Liu, Mi Zhou, Panos M. Pardalos), *Journal of Combinatorial Optimization*, 38(4), pp. 1263-1285 (2019). <https://link.springer.com/article/10.1007%2Fs10878-019-00446-6>
521. “*Dynamic three-stage operating room scheduling considering patient waiting time and surgical overtime costs*” (Shuwan Zhu, Wenjuan Fan, Tongzhu Liu, Shanlin Yang, Panos M.

- Pardalos), *Journal of Combinatorial Optimization*, Vol. 39, No 1, pp. 185-215 (2020) <https://link.springer.com/content/pdf/10.1007/s10878-019-00463-5.pdf>
522. “*A Robust Optimization Approach for Integrated Steel Production and Batch Delivery Scheduling with Uncertain Rolling Times and Deterioration Effect*” (Min Kong, Jun Pei, Jin Xu, Xinbao Liu, Panos M.Pardalos), *International Journal of Production Research*, Vol 58, Issue 17, pp. 5132-5154 (2020) DOI: 10.1080/00207543.2019.1693659.
523. “*Green manufacturing: Order acceptance and scheduling subject to the budgets of energy consumption and machine launch*” (Min Kong, Jun Pei, Xinbao Liu, Pei-Chun Lai, Panos M.Pardalos), *Journal of Cleaner Production*, Vol. 248, 119300, DOI: 10.1016/j.jclepro.2019.119300 (2020).
524. “*Minimax Optimization for Recipe Management in High-Mixed Semiconductor Lithography Process*” (Marzieh Khakifirooz, Chen-Fu Chien, Mahdi Fathi, Panos M. Pardalos) *IEEE Transactions on Industrial Informatics*, Vol 16 No. 8 (2020), pp. 4975-4985 [doi: 10.1109/TII.2019.2957145].
525. “*Combining Stochastic Adaptive Cubic Regularization with Negative Curvature for Nonconvex Optimization*” (Seonho Park, Seung Hyun Jung, Panos Pardalos), *Journal of Optimization Theory and Application*, Vol. 184, Issue 3, pp. 953-971,(March 2020).
526. “*Solving a Class of Nonsmooth Resource Allocation Problems with Directed Graphs through Distributed Smooth Multi-Proximal Algorithms*” (Yue Wei, Chengsi Shang, Hao Fang, Xianlin Zeng, Lihua Dou, Panos Pardalos), *IEEE Transactions on Automatic Control*, forthcoming (2020).
527. “*Less is more approach for competing groups scheduling with different learning effects*” (Baoyu Liao, Xingming Wang, Xing Zhu, Shanlin Yang, Panos M. Pardalos), *Journal of Combinatorial Optimization*, Vol. 39, Issue 1, pp 33-54 (2020).
528. “*Interdependent Networks: A Data Science Perspective*” (M. Hadi Amini, Ahmed Imteaj, and Panos M. Pardalos), *Patterns*, Volume 1, Issue 1, 100003, doi.org/10.1016/j.patter.2020.100003 (10 April 2020)
529. “*A Statistical Density-Based Analysis of Graph Clustering Algorithm Performance*” (Pierre Misasnikof, Alexander Y. Shestopaloff, Anthony J. Bonner, Yuri Lawryshyn, Panos M. Pardalos), *Journal of Complex Networks*, Vol. 8, Issue 3, cnaa012, doi.org/10.1093/comnet/cnaa012 (June 2020)
530. “*Structural improved regular simplex support vector machine for multiclass classification*” (Long Tang, Yingjie Tian, Wenjun Li, Panos M Pardalos), *Applied Soft Computing*, Volume 91, 106235 (June 2020) <https://www.sciencedirect.com/science/article/abs/pii/S1568494620301757>
531. “*Joint Chance Constrained Shortest Path Problem with Copula Theory*” (Zohreh Hosseini Nodeh, Ali Babapour Azar, Rashed Khanjani Shiraz, Salman Khodayifar, Panos M. Pardalos), *Journal of Combinatorial Optimization*, 40, pp. 110-140 (2020). <https://doi.org/10.1007/s10878-020-00562-8>
532. “*Credit Guarantee Mechanism with Information Asymmetry: A Sourcing Model*” (C-F. Wu, M. Fathi, D. M. Chiang, and P. M. Pardalos), *International Journal of Production Research*, Vol 58, Issue 16 (2020), pp. 4877-4893 <https://doi.org/10.1080/00207543.2020.1727039>
533. “*Robust parallel-batching scheduling with fuzzy deteriorating processing time and variable delivery time in smart manufacturing*” (Shaojun Lu, Jun Pei, Xinbao Liu, Panos M. Pardalos),

- Fuzzy Optimization and Decision Making, 19, pp. 333-357 (2020). doi.org/10.1007/s10700-020-09324-x
534. “Parallel-machine serial-batching scheduling with arbitrary release times under the effects of position-dependent learning and time-dependent deterioration” (Jun Pei, Qingru Song, Baoyu Liao, Xinbao Liu, Panos M. Pardalos), *Annals of Operations Research*, Vol. 298, pp. 407-444 (2021).
535. “A variation of DS decomposition in set function optimization” (Li, X., Du, H.G. & Pardalos, P.M.), *J Comb Optim*, 40, pp. 36-44 (2020). <https://doi.org/10.1007/s10878-020-00560-w>
536. “An effective heuristic based on column generation for the two-dimensional three-stage steel plate cutting problem” (Jianyu Long, Zhong Zheng, Xiaoqiang Gao, Panos M. Pardalos, and Wanzhe Hu), *Annals of Operations Research*, Vol 289, No 2 (2020), pp. 291-311. [<https://link.springer.com/content/pdf/10.1007/s10479-020-03604-w.pdf>]
537. “A Game of Information Security Investment with Considering Security Insurance and Complementary Information Assets” (Qian, Xiaofei; Yang, Wujuan; Pei, Jun; Liu, Xinbao; Pardalos, Panos), *Journal of the Operational Research Society*, Vol. 68, Issue 10, pp. 1290-1305, DOI: 10.1057/s41274-016-0134-y
538. “A robust dynamic scheduling approach based on release time series forecasting for the steelmaking-continuous casting production” (Jianyu Long, Zhenzhong Sun, Panos M. Pardalos, Yun Bai, Shaohui Zhang, Chuan Li) *Applied Soft Computing*, Volume 92, 106271 (July 2020) <https://www.sciencedirect.com/science/article/pii/S1568494620302118>
539. “The computational complexity of weighted vertex coloring for $\{P_5, K_{2,3}, K_{2,3}^+\}$ -free graphs” (Malyshev, D.S., Razvenskaya, O.O. & Pardalos, P.M.) *Optimization Letters*, Vol. 15, pp. 137-152 (2021), doi.org/10.1007/s11590-020-01593-0
540. “Parallel-batching scheduling of deteriorating jobs with non-identical sizes and rejection on a single machine” (Min Kong, Xinbao Liu, Jun Pei, Zhiping Zhou, Panos M. Pardalos), *Optimization Letters* 14 (2020), pp. 857-871.
541. “A hybrid genetic and Lagrangian relaxation algorithm for resource-constrained project scheduling under nonrenewable resources” (Ali Shirzadeh Chaleshtarti, Shahram Shadrokh, Marzieh Khakifirooz, Mahdi Fathi, Panos M. Pardalos), *Applied Soft Computing*, Volume 94, (2020), 106482, ISSN 1568-4946, doi.org/10.1016/j.asoc.2020.106482.
542. “Patient scheduling with deteriorating treatment duration and maintenance activity” (Kaining Shao, Wenjuan Fan, Shanlin Yang, Panos Pardalos), *Soft Computing*, Vol. 24, pp. 17649-17668 (2020), doi.org/10.1007/s00500-020-05156-4
543. “Effects of resource occupation and decision authority decentralisation on performance of the IoT-based virtual enterprise in central China” (Zhiping Zhou, Jun Pei, Xinbao Liu, Hong Fu & Panos M. Pardalos) *International Journal of Production Research*, published online (2020) DOI: 10.1080/00207543.2020.1806369
544. “Machine Learning Methods for Data Association in Multi-Object Tracking” (Patrick Emami, Panos M. Pardalos, Lily Elefteriadou, Sanjay Ranka) *ACM Computing Surveys*, Vol. 53, No. 4, pp. 1-34 (August 2020) doi.org/10.1145/3394659

545. “*DMaOEA- ε C: Decomposition-based many-objective evolutionary algorithm with the ε -constraint framework*” (Juan Li, Jie Li, Panos M. Pardalos, Chengwei Yang) *Information Sciences* Vol. 537, pp 203-226 (2020)
546. “*A hybrid DBH-VNS for high-end equipment production scheduling with increasing machine failures and preventive maintenance activities*” (Shaojun Lu, Jun Pei, Xinbao Liu, Panos M. Pardalos) *Journal of Computational and Applied Mathematics*, Vol. 384, (1 March 2021), pp 113195 doi.org/10.1016/j.cam.2020.113195
547. “*Neural network embeddings on corporate annual filings for portfolio selection*” (George Adosoglou, Gianfranco Lombardo, Panos M. Pardalos) *Expert Systems with Applications*, Vol. 164, 114053 (2021) doi.org/10.1016/j.eswa.2020.114053.
548. “*Effects of government regulations on Manufacturer’s behaviors under carbon emission reduction*” (Wei Feng, Guojun Ji & Panos M. Pardalos) *Environmental Science and Pollution Research* Vol. 26, Issue 18, pp. 17918-17926 (2019)
549. “*A dual reformulation and solution framework for regularized convex clustering problems*” (J. Pi, Honggang Wang, Panos M. Pardalos) *European Journal of Operational Research*, Vol. 290, Issue 3, (2021), pp. 844-856, doi.org/10.1016/j.ejor.2020.09.010
550. “*Synthetic-Aperture Radar Image based Positioning in GPS-denied Environments using Deep Cosine Similarity Neural Networks*” (Seonho Park, Maciej Rysz, Kaitlin Fair, and Panos Pardalos), *Inverse Problems and Imaging*, (2021) doi.org/10.3934/ipi.2021013
551. “*Research on dynamic grouping of heterogeneous agents for exploration and strike missions*” (Chen Chen, Xiao-chen Wu, Jie Chen, Panos M. Pardalos, Shu-xin Ding), *Frontiers of Information Technology & Electronic Engineering*, forthcoming (2020).
552. “*Maximum shortest path interdiction problem by upgrading edges on trees under weighted l_1 norm*” (Qiao Zhang, Xiucui Guan, Panos M. Pardalos), *Journal of Global Optimization*, published online (2020), doi.org/10.1007/s10898-020-00958-0
553. “*Different Approximation Algorithms for Channel Scheduling in Wireless Networks*” (Qiufen Ni, Chuanhe Huang, Panos M. Pardalos, Jia Ye, Bin Fu), *Mobile Information Systems*, Vol. 2020, Article ID 8836517, 13 pages (2020) doi.org/10.1155/2020/8836517
554. “*Why Farmers Get Involved in Participatory Research Projects? The Case of Arable Crops Farmers in Greece.* (Vlontzos, G.; Niavis, S.; Kleisiari, C.; Kyrgiakos, L.S.; Athanassiou, C.; Pardalos, P.) *Applied Sciences*, Vol. 11, No. 1:6 (2021), www.mdpi.com/2076-3417/11/1/6
555. “*Ridesharing in urban areas: multi-objective optimisation approach for ride-matching and routeing with commuters’ dynamic mode choice*” (Lei Guan, Jun Pei, Xinbao Liu, Zhiping Zhou & Panos M. Pardalos), *International Journal of Production Research* (2020), DOI: 10.1080/00207543.
556. “*Solving bi-objective uncertain stochastic resource allocation problems by the CVaR-based risk measure and decomposition-based multi-objective evolutionary algorithms*” (Juan Li, Bin Xin, Panos M. Pardalos & Jie Chen), *Annals of Operations Research*, Vol. 296, pp. 639-666 (2021), doi.org/10.1007/s10479-019-03435-4
557. “*Interpreting rate-distortion of variational autoencoder and using model uncertainty for anomaly detection*” (Seonho Park, George Adosoglou, Panos M. Pardalos), *Annals of Mathematics and Artificial Intelligence*, forthcoming (2021)

558. “*The two-echelon production routing problem with cross-docking satellites*” (Yuzhuo Qiu, Dan Zhou, Yanan Du, Jie Liu, Panos M. Pardalos, Jun Qiao), **Transportation Research Part E: Logistics and Transportation Review**, Vol. 147 (2021), 102210, doi.org/10.1016/j.tre.2020.102210
559. “*Valley-loss regular simplex support vector machine for robust multiclass classification*” (Long Tang, Yingjie Tian, Wenjun Li, Panos M. Pardalos), **Knowledge-Based Systems**, Vol. 216, 106801 (2021), doi.org/10.1016/j.knsys.2021.106801
560. “*A column generation approach for patient scheduling with setup time and deteriorating treatment duration*” (Kaining Shao, Wenjuan Fan, Zishu Yang, Shanlin Yang, Panos M. Pardalos), **Operational Research International Journal** (2021), doi.org/10.1007/s12351-021-00620-x
561. “*Airline Disruption Management: A Review of Models and Solution Methods*” (Yi Su, Kexin, Xie, Hongjian Wang, Zhe Liang, Wanpracha Art Chaovalitwongse, Panos M. Pardalos) **Engineering** (2021), doi.org/10.1016/j.eng.2020.08.021.
562. “*A survey on the applications of variable neighborhood search algorithm in healthcare management*” (Shaowen Lan, Wenjuan Fan, Shanlin Yang, Panos M. Pardalos & Nenad Mladenovic) **Annals of Mathematics and Artificial Intelligence** (2021), doi.org/10.1007/s10472-021-09727-5
563. “*Ranking EU Agricultural Sectors under the Prism of Alternative Widths on Window DEA*” (Leonidas Sotirios Kyrgiakos, George Vlontzos and Panos M. Pardalos) **Energies**, Vol. 14, Issue 4, 1021 (2021) doi.org/10.3390/en14041021
564. “*Improved DE search for competing groups scheduling with deterioration effects* (Baoyu Liao, Haoxin Wang, Xing Zhu, Shanlin Yang & Panos M. Pardalos) **Optimization Letters**, Vol. 15, pp. 469-494 (2021), doi.org/10.1007/s11590-020-01581-4
565. “*The lower bounded inverse optimal value problem on minimum spanning tree under unit l_∞ norm* (Binwu Zhang, Xiucui Guan, Panos M. Pardalos, Hui Wang, Qiao Zhang, Yan Liu & Shuyi Chen) **Journal of Global Optimization**, Vol. 79, pp 757-777 (2021), doi.org/10.1007/s10898-020-00947-3
566. “*A robustness comparison of two market network models*” (D.P. Semenov, A.P. Koldanov, P.A. Koldanov, P.M. Pardalos) **IMA Journal of Management Mathematics** (2021), dpab001, doi.org/10.1093/imaman/dpab001
567. “*Identifying and determining crowdsourcing service strategies: An empirical study on a crowdsourcing platform in China*” (Xu Zhang, Zhanglin Peng, Qiang Zhang, Xiaoan Tang, Panos M. Pardalos) **Journal of Industrial & Management Optimization**, doi: 10.3934/jimo.2021045
568. “*A game of information security investment considering security insurance and complementary information assets*” (Xiaofei Qian, Wujuan Yang, Jun Pei, Xinbao Liu, Panos M. Pardalos) **International Transactions in Operational Research** (2021), doi.org/10.1111/itor.12972
569. “*Integrated inventory and production policy for manufacturing with perishable raw material*” (Chaoming Hu, Min Kong, Jun Pei, Xinbao Liu, Panos M. Pardalos) **Annals of Mathematics and Artificial Intelligence** (2021), doi.org/10.1007/s10472-021-09739-1
570. “*Level-based multi-objective particle swarm optimizer for integrated production scheduling and vehicle routing decision with inventory holding, delivery, and tardiness costs*” (Jianyu Long,

- Panos M. Pardalos & Chuan Li), *International Journal of Production Research*, (2021)
DOI: 10.1080/00207543.2021.1919780
571. “*Yield performance estimation of corn hybrids using machine learning algorithms*” (FarnazBabaie Sarijaloo, Michele Porta, Bijan Taslimi, Panos M. Pardalos), *Artificial Intelligence in Agriculture*, doi.org/10.1016/j.aiia.2021.05.001 (2021).
572. “*A novel quality prediction method based on feature selection considering high dimensional product quality data*” (Junying Hu, Xiaofei Qian, Jun Pei, ChangchunTan, Panos M. Pardalos, Xinbao Liu), *Journal of Industrial and Management Optimization*, forthcoming (2021).
573. “*Co-evolutionary game of manufacturers’ abatement behavior under carbon tax-subsidy policy*” (Suyong Zhang, Chuanxu Wang, Panos M Pardalos) *International Journal of Low-Carbon Technologies* (2021), doi.org/10.1093/ijlct/ctaa081
574. “*Coordinated Optimization of Production Scheduling and Maintenance Activities with Machine Reliability Deterioration*” (Chaoming Hu, Xiaofei Qian, Shaojun Lu, Xinbao Liu and Panos Pardalos), *Journal of Industrial & Management Optimization*, forthcoming (2021).
575. “*A novel quality prediction method based on feature selection considering high dimensional product quality data*” (Junying Hu, Xiaofei Qian, Jun Pei, Changchun Tan, Panos M. Pardalos, and Xinbao Liu) *Journal of Industrial & Management Optimization*, doi: 10.3934/jimo.2021099 (2021)
576. “*Equity-based incentive to coordinate shareholder-manager interests under information asymmetry*” (Zhiping Zhou, Yao Yin, Mi Zhou, Hao Cheng and Panos Pardalos) *Journal of Industrial & Management Optimization*, forthcoming (2021).
577. “*Solving a multiple-qualifications physician scheduling problem with multiple types of tasks by dynamic programming and variable neighborhood search*” (Shaowen Lan, Wenjuan Fan, Shanlin Yang, Nenad Mladenović, Panos M. Pardalos) *Journal of the Operational Research Society*, DOI: 10.1080/01605682.2021.1954485, published online (2021).
578. “*Copula theory approach to stochastic geometric programming*” (Rashed Khanjani-Shiraz, Salman Khodayifar, and Panos M. Pardalos), *Journal of Global Optimization* Vol. 81, pp. 435-468 (2021).
579. “*Traffic-driven epidemic spreading in networks: Considering the transition of infection from mild to severe*” (Yanqing Wu, Cunlai Pu, Gongxuan Zhang, and Panos M. Pardalos), *IEEE Transactions on Cybernetics*, forthcoming (2021).
580. “*Equity-based incentive to coordinate shareholder-manager interests under information asymmetry*” (Zhiping Zhou , Yao Yin , Mi Zhou, Hao Cheng, and Panos M. Pardalos), *Journal of Industrial and Management Optimization* (2021) doi.org/10.3934/jimo.2021167
581. “*Less is more approach in optimization: a road to artificial intelligence*” (Nenad Mladenović, Jun Pei, Panos M. Pardalos, Dragan Urošević), *Optimization Letters*, forthcoming (2021).
582. “*A novel mixed integer programming model for freight train travel time estimation*” (Bijan Taslimi, Farnaz Babaie Sarijaloo, Hongcheng Liu, and Panos M.Pardalos), *European Journal of Operational Research*, forthcoming (2021).
583. “*Evolutionary game analysis of capital-constrained supplier’s and manufacturer’s financing schemes*” (Suyong Zhang, Panos.M.Pardalos), *Complexity*, forthcoming (2021).

584. “A game of information security investment considering security insurance and complementary information assets” (Xiaofei Qian, Wujuan Yang, Jun Pei, Xinbao Liu, Panos M. Pardalos), *International Transactions in Operations Research*, Vol. 29, Issue 3, pp. 1791-1824 (2022)
585. “Association of persistent acute kidney injury and renal recovery with mortality in hospitalised patients” (Tezcan Ozrazgat-Baslanti, Tyler J Loftus, Yuanfang Ren, Esra Adiyeyeke, Shunshun Miao, Haleh Hashemighouchani, Rubab Islam, Rajesh Mohandas, Saraswathi Gopal, Elizabeth A Shenkman, Panos Pardalos, Babette Brumback, Mark S Segal, Azra Bihorac), *BMJ Health & Care Informatics*, Vol. 28, Issue 1:e100458. doi:10.1136/bmjhci-2021-100458 (2021)

PAPERS IN REFEREED BOOKS AND MAGAZINES:

1. “On Some Matrix Inequalities and Cholesky Factorization,” *Mathematics Magazine* (June 1988), pp. 170-171.
2. “An interior point algorithm for large-scale quadratic problems with box constraints” (with Y. Ye and C.-G. Han), *Lecture Notes in Control and Information*, Vol. 144, Springer-Verlag (1990), pp. 413-422.
3. “Single-Source Uncapacitated Minimum Concave Cost Network Flow Problems” (with G. Guisewite), In *Operational Research’90* (Edited by H.E. Bradley), Pergamon Press (1990), pp. 703-713.
4. “The Problem of Determining Membership Values in Fuzzy Sets in Real World Situations” (with E. Triantaphyllou and S.H. Mann), In *Operations Research and Artificial Intelligence: The integration of problem solving strategies*, (Edited by D.E. Brown and C.C. White, III), Kluwer Academic Publishers (1990), pp. 197-214.
5. “Computational aspects of an interior point algorithm for quadratic problems with box constraints” (with Y. Ye and C.-G. Han), In *Large-Scale Numerical Optimization* (Edited by T. Coleman and Y. Li), SIAM Philadelphia (1990), pp. 92-112.
6. “Interior point algorithms for solving nonlinear optimization problems” (with Y. Ye and C.-G. Han), *COAL Newsletter*, No. 19 (1991), pp. 45-54.
7. “Test cases for the maximum clique problem” (with G. Vairaktarakis), *COAL Bulletin* No. 21 (1992), pp. 19-23.
8. “Space-covering approach and modified Frank-Wolfe algorithm for optimal nuclear reactor reload design” (with Z. Li and S.H. Levine), In *Recent Advances in Global Optimization*, Princeton University Press (1992), pp. 593-615.
9. “Performance of local search in minimum concave-cost network flow problems” (with G. Guisewite), In *Recent Advances in Global Optimization*, Princeton University Press (1992), pp. 50-75.
10. “Parallel algorithms for the quadratic assignment problem” (with Y. Li), In *Advances in Optimization and Parallel Computing* (Edited by P.M. Pardalos), Elsevier Science Publishers (1992), pp. 177-189.

11. “*Computational experience with parallel algorithms for solving the quadratic assignment problem*” (with K.A. Murthy and Li Yong), In *Computer Science and Operations Research: New Developments in their Interface* (Edited by O. Balci, R. Sharda, S.A. Zenios), Pergamon Press (1992), pp. 267-278.
12. “*Subset Interconnection designs: Generalizations of spanning trees and Steiner trees*” (with D.-Z. Du), In *Network Optimization Problems*, World Scientific (1993), pp. 111-124.
13. “*Parallel Processing of Discrete Optimization Problems*” (with G.Y. Ananth and V. Kumar), In *Encyclopedia of Microcomputers*, Vol. 13, Marcel Dekker Inc. (1993), pp. 129-147.
14. “*Integer programming*” (with Y. Li), In *Handbook of Statistics* (Edited by C.R. Rao), Vol. 9 (1993), pp. 279-302.
15. “*Mathematical programming, A computational perspective*” (with W. Hager and R. Horst), In *Handbook of Statistics*, (Edited by C.R. Rao), Vol. 9 (1993), pp. 201-278.
16. “*Equivalent formulations of the Steiner tree problem in graphs*” (with B. Khoury and D. Hearn), In *Network Optimization Problems*, World Scientific (1993), pp. 53-62.
17. “*Algorithms for the least distance problem*” (with P. Berman and N. Kooroor), In *Complexity in Numerical Optimization*, World Scientific (1993), pp. 33-56.
18. “*Complexity issues in nonconvex network flow problems*” (with G. Guisewite), In *Complexity in Numerical Optimization*, World Scientific (1993), pp. 163-179.
19. “*The Quadratic Assignment Problem*” (with F. Rendl and H. Wolkowicz), In *The Quadratic Assignment and Related Problems* (Edited by P.M. Pardalos & H. Wolkowicz), DIMACS Series, Vol. 16, American Mathematical Society (1994), pp. 1-42.
20. “*A Greedy Randomized Adaptive Search Procedure for the Quadratic Assignment Problem*” (with Y. Li and M. Resende), In *The Quadratic Assignment and Related Problems* (Edited by P.M. Pardalos and H. Wolkowicz), DIMACS Series, Vol. 16, American Mathematical Society (1994), pp. 237-261.
21. “*The Linear Complementarity Problem,*” In *Advances in Optimization and Numerical Analysis* (Edited by S. Gomez & J.P. Hennart), Kluwer Academic Publishers (1994), pp. 39-49.
22. “*On the passage from local to global in optimization,*” In *Mathematical Programming: State of the Art 1994* (Edited by J.R. Birge & K.G. Murty), The University of Michigan (1994), pp. 220-247.
23. “*A continuous based heuristic for the maximum clique problem*” (with L. Gibbons and D. Hearn), In *Clique, Graph Coloring, and Satisfiability: Second DIMACS Implementation Challenge* (Edited by D.S. Johnson and M.A. Trick), DIMACS Series, Vol. 26, American Mathematical Society (1996), pp. 103-124.
24. “*Global Optimization problems in Computer Vision*” (with P. Sussner and G. Ritter), In *State of the Art in Global Optimization* (Edited by C. Floudas and P.M. Pardalos), Kluwer Academic Publishers (1996), pp. 457-474.
25. “*Minimax Problems in Combinatorial Optimization*” (with F. Cao, D.-Z. Du, B. Gao and P.-J. Wan), In *Minimax and Applications* (Edited by D.-Z. Du and P.M. Pardalos), Kluwer Academic Publishers (1995), pp. 262-285.

26. “A Pseudo ϵ -Approximate Algorithm for Feedback Vertex Set” (with T. Qian and Y. Ye), In **State of the Art in Global Optimization** (Edited by C. Floudas and P.M. Pardalos), Kluwer Academic Publishers (1996), pp. 341-351.
27. “A Branch and Bound for the Quadratic Assignment Problem Using a Lower Bound based on Linear programming ” (with K.G. Ramakrishan and M.G.C. Resende), In **State of the Art in Global Optimization** (Edited by C. Floudas and P.M. Pardalos), Kluwer Academic Publishers (1996), pp. 57-73.
28. “Rapid Evaluation of Potential Energy Functions in Molecular and Protein Conformations” (with G. Xue and A. Zall), In **Global Minimization of Nonconvex Energy Functions: Molecular Conformation and Protein Folding** (Edited by P.M. Pardalos, D. Shalloway, and G. Xue), DIMACS Series, Vol. 23, American Mathematical Society (1996), pp. 237-249.
29. “Interior Point Algorithms for Network Optimization Problems” (with M.G.C. Resende), In **Advances in Linear and Integer Programming** (Edited by J. Beasley), Oxford University Press (1996), pp. 147-187.
30. “Parallel Algorithms for Global Optimization” (with G. Xue and P.D. Panagiotopoulos), In **Solving Combinatorial Optimization Problems in Parallel: Methods and Techniques** (Edited by A. Ferreira and P.M. Pardalos), Spinger-Verlag, Lecture notes in computer science, Vol. 1054 (1996), pp. 233-247.
31. “Continuous Approaches to Discrete Optimization Problems,” In **Nonlinear Optimization and Applications** (Edited by G. Di Pillo & F. Giannessi), Plenum Publishing (1996), pp. 313-328.
32. “Semidefinite Programming” (with M. Ramana), In **Interior Point methods of Mathematical Programming** (Edited by T. Terlaky), Kluwer Academic Publishers (1996), pp. 369-398.
33. “Interior Point Methods for Global Optimization Problems” (with M.G.C. Resende), In **Interior Point methods of Mathematical Programming** (Edited by T. Terlaky), Kluwer Academic Publishers (1996), pp. 467-500.
34. “Greedy Randomized Adaptive Search for a Location Problem with Economies of Scale” (with K. Holmqvist and A. Migdalas), In **Developments in Global optimization** (Edited by I.M. Bomze et al.), Kluwer Academic Publishers (1997), pp. 301-313.
35. “Quadratic Programming with Box Constraints” (with P. L. De Angelis and G. Toraldo), In **Developments in Global optimization** (Edited by I.M. Bomze et al.), Kluwer Academic Publishers (1997), pp. 73-93.
36. “Approximate solution of weighted MAX-SAT problems using GRASP” (with M.G.C. Resende and L.S. Pitsoulis), In **Satisfiability Problem: Theory and Applications** (Edited by D.-Z. Du, J. Gu, and P.M. Pardalos), DIMACS Series, Vol. 35, American Mathematical Society (1997), pp. 393-405.
37. “Complexity Issues in Hierarchical Optimization” (with X. Deng), In **Mathematical Hierarchies and Biology** (Edited by B. Mirkin, F.R. McMorris, F.S. Roberts and A. Rzhetsky), DIMACS Series, Vol. 37, American Mathematical Society (1997), pp. 219-224.
38. “Multispace Search for Protein Folding” (with J. Gu, B. Du), In **Large Scale Optimization with Applications, Part III: Molecular Structure and Optimization** (Edited by L.T.

- Biegler et al.), *The IMA Volumes in Mathematics and its Applications*, Vol. 94, Springer-Verlag (1997), pp. 47-67.
39. “*Simulated Annealing*” (with T. Mavridou), In *Encyclopedia of Mathematics*, Vol. 11, Kluwer Academic Publishers (1997), pp. 451-453.
 40. “*A GRASP Algorithm for the Single Source Uncapacitated Minimum Concave-Cost Network Flow Problem*” (with K. Holmqvist and A. Migdalas), In *Network Design: Connectivity and Facilities Location* (Edited by P.M. Pardalos and D.-Z. Du), DIMACS Series, Vol. 40, American Mathematical Society (1998), pp. 131-142.
 41. “*A GRASP for the Multitarget Multisensor Tracking Problem*” (with R. Murphey and L. Pitsoulis) In *Network Design: Connectivity and Facilities Location* (Edited by P.M. Pardalos and D.-Z. Du), DIMACS Series, Vol. 40, pp. 277-302.
 42. “*A Tabu based pattern search method for the distance geometry problem*” (with X. Liu) In *New Trends in Mathematical Programming* (Edited by F. Giannessi et. al), Kluwer Academic Publishers (1998), pp. 223-234.
 43. “*Interior Point Methods for Combinatorial Optimization*” (with J. Mitchell and M.G.C. Resende), In *Handbook of Combinatorial Optimization*, Vol. 1 (1998) (Edited by D.-Z Du and P. Pardalos), pp. 189-298.
 44. “*A Parallel GRASP for the Data Association Multidimensional Assignment Problem*” (with R. Murphey and L. Pitsoulis), In *Parallel Processing of Discrete Problems* (Edited by P.M. Pardalos), *The IMA Volumes in Mathematics and its Applications*, Vol. 106, Springer-Verlag (1998), pp. 159-180.
 45. “*Applications of Global Optimization in Molecular Biology*,” In *Global & Multiple Criteria Optimization and Information Systems Quality*, (Edited by C. Carlsson and I. Eriksson), Abo Akademis Tryckeri, Finland (1998), pp. 91-102.
 46. “*The graph coloring problem: A bibliographic survey*” (with J. Xue and T. Mavridou), In *Handbook of Combinatorial Optimization*, Vol. 2 (Edited by D.-Z Du and P. Pardalos), Kluwer Academic Publishers (1998), pp. 331-395.
 47. “*Data Structures and Algorithms*” (with Sanguthevar Rajasekaran), In *Wiley Encyclopedia of Electrical and Electronics Engineering*” (Edited by J.G.Webster), John Wiley and Sons Inc. (1999), Vol. 5, pp. 1-9.
 48. “*The Quadratic Assignment Problem*” (with R. Burkard, E. Cela, and L. Pitsoulis), In *Handbook of Combinatorial Optimization*, Vol. 3 (Edited by D.-Z. Du and P.M. Pardalos), Kluwer Academic Publishers (1999), pp. 241-337.
 49. “*Global Optimization Approaches in Protein Folding and Peptide Docking*” (with C. Floudas and J. Klepeis), In *Mathematical Support for Molecular Biology* (Edited by M. Farach-Colton, F.S. Roberts, M. Vingron, and M. Waterman), DIMACS Series, Vol. 47, American Mathematical Society (1999), pp. 141-171.
 50. “*Greedy randomized adaptive search procedures for the Steiner problem in graphs*” (with S. Martins, M.G.C.Resende and C.C. Ribeiro), In *Randomization Methods in Algorithm Design* (Edited by P.M. Pardalos and S. Rajasekaran), DIMACS Series, Vol. 43, American Mathematical Society (1999), pp. 133-145.

51. “*On maximum clique problems in very large graphs*” (with J. Abello and M. Resende), In **External Memory Algorithms** (Edited by J.M. Abello and J.S.Vitter), DIMACS Series, Vol. 50, American Mathematical Society (1999), pp. 119-130.
52. “*Cuts and Semidefinite Relaxations for Nonconvex Quadratic Problems*” (with Y. Yajima and M.V. Ramana), In **Generalized Convexity and Generalized Monotonicity** (Edited by N. Hadjisavvas, J.E. Martinez-Legaz and J.-P. Penot), Lecture Notes in Economics and Mathematical Systems, Vol. 502, Springer (2001), pp. 48-70.
53. “*An Exact Parallel Algorithm for the Maximum Clique Problem*” (with J. Rappe and M.G.C. Resende), In **High Performance Algorithms and Software in Nonlinear Optimization** (Edited by R. De Leone et al), Kluwer Academic Publishers (1999), pp. 279-300.
54. “*On conflict-free channel set assignments for optical cluster-based hypercube networks*” (with D.S. Kim and D.-Z. Du) In **Multichannel Optical Networks: Theory and Practice** (Edited by P.-J. Wan, D.-Z. Du, P.M. Pardalos), DIMACS Series, Vol. 46, American Mathematical Society (1999), pp. 109-116.
55. “*Nonlinear Assignment Problems*” (with L. Pitsoulis and T. Mavridou), In **Large Scale Computations In Air Pollution Modelling**, (Edited by Z. Zlatev et al), NATO Science Series in Environmental Security Vol. 57, Kluwer Academic Publishers (1999), pp. 261-273.
56. “*The Maximum Clique Problem*” (with Immanuel M. Bomze, Marco Budinich, and Marcello Pelillo), In **Handbook of Combinatorial Optimization, Supplement Vol. A** (Edited by D.-Z. Du and P.M. Pardalos), Kluwer Academic Publishers (1999), pp. 1-74.
57. “*Feedback Set Problems*” (with Paola Festa, and Mauricio G.C. Resende) In **Handbook of Combinatorial Optimization, Supplement Vol. A** (Edited by D.-Z. Du and P.M. Pardalos), Kluwer Academic Publishers (1999), pp. 209-258.
58. “*Frequency Assignment Problems*” (with R. Murphey and M.G.C. Resende), In **Handbook of Combinatorial Optimization, Supplement Vol. A** (Edited by D.-Z. Du and P.M. Pardalos), Kluwer Academic Publishers (1999), pp. 295-377.
59. “*Quadratic and Multidimensional Assignment Problems,*” In **Nonlinear Optimization and Applications 2**, (Edited by G. Di Pillo & F. Giannessi), Kluwer Academic Publishers (2000), pp. 235-276.
60. “*A GRASP for frequency assignment in mobile Radio Networks*” (with X. Liu, S. Rajasekaran, and M.G.C. Resende), In **Mobile Networks and Computing** (Edited by S. Rajasekaran, P. Pardalos and D. Hsu), DIMACS Series, Vol. 52, American Mathematical Society (2000), pp. 195-201.
61. “*Multicriteria Optimization for Frequency Assignment*” (with R.A. Murphey and E. Pasiliao), In **Mobile Networks and Computing** (Edited by S. Rajasekaran, P. Pardalos and D. Hsu), DIMACS Series, Vol. 52, American Mathematical Society (2000), 203-219.
62. “*Transition to epileptic seizures: optimization*” (with L.D. Iasemidis, D.-S. Shiau, J.C. Sackellares), In **Discrete Mathematical Problems with Medical Applications** (Edited by D.-Z. Du, P.M. Pardalos, and J. Wang), DIMACS Series, Vol. 55, American Mathematical Society (2000), pp. 55-74.

63. “*A Parallel Implementation of a Potential Reduction Algorithm for Box-Constrained Quadratic Programming*” (with M. D’Apuzzo, M. Marino, G. Toraldo), *Lecture Notes in Computer Sciences*, Vol. 1900, Springer-Verlag (2000), pp. 839-848.
64. “*Recent Developments in Global Optimization and Their Relevance to Process Design*” (with C. Floudas), In *Foundations of Computer Aided Process Design* (Edited by M.F. Malone, J.A. Trainham and B. Carnahan), AIChE Symposium Series, Vol. 96 (2000), pp. 84-98.
65. “*Global optimization of cryogenic-optical sensors*” (with V. Yatsenko), In *Sensors, Systems, and next Generation Satelites* (Edited by H. Fyjisada, J.B. Lurie, and K. Weber), Proceedings of SPIE Vol. 4540 (2001), pp. 433-441.
66. “*Integer linear complementary problem*” (with Y. Yajima), In *Encyclopedia of Optimization*, Vol. 2 (Edited by C.A. Floudas and P.M. Pardalos), Kluwer Academic Publishers (2001), pp. 489-491.
67. “*Feedback set problems*” (with P. Festa), In *Encyclopedia of Optimization*, Vol. 2 (Edited by C.A. Floudas and P.M. Pardalos), Kluwer Academic Publishers (2001), pp. 94-106.
68. “*History of optimization*” (with D.-Z. Du and W. Wu), In *Encyclopedia of Optimization*, Vol. 2 (Edited by C.A. Floudas and P.M. Pardalos), Kluwer Academic Publishers (2001), pp. 441-446.
69. “*Quadratic assignment problem*” (with L. Pitsoulis) In *Encyclopedia of Optimization*, Vol. 4 (Edited by C.A. Floudas and P.M. Pardalos), Kluwer Academic Publishers (2001), pp. 405-436.
70. “*Hyperplane arrangements in optimization*”, In *Encyclopedia of Optimization*, Vol. 2 (Edited by C.A. Floudas and P.M. Pardalos), Kluwer Academic Publishers (2001), pp. 451-452.
71. “*Kuhn-Tucker optimality conditions*”, In *Encyclopedia of Optimization*, Vol. 3 (Edited by C.A. Floudas and P.M. Pardalos), Kluwer Academic Publishers (2001), pp. 106-109.
72. “*Linear programming*”, In *Encyclopedia of Optimization*, Vol. 3 (Edited by C.A. Floudas and P.M. Pardalos), Kluwer Academic Publishers (2001), pp. 186-188.
73. “*Steiner tree problems*”, (with D.-Z. Du, B. Lu, and H. Ngo), In *Encyclopedia of Optimization*, Vol. 5 (Edited by C.A. Floudas and P.M. Pardalos), Kluwer Academic Publishers (2001), pp. 277-290.
74. “*Parallel Metaheuristics for Combinatorial Optimization*” (with S. Duni-Eksioglu and M.G.C. Resende), In *Models for Parallel and Distributed Computation* (Edited by Correa R. et al), Kluwer Academic Publishers (2002), pp. 179-206.
75. “*Phase Entrainment and Predictability of Epileptic Seizures*” (with L. Iasemidis, D.-S. Shiau, and J.C. Sackellares), In *Biocomputing* (Edited by P.M. Pardalos and J. Principe), Kluwer Academic Publishers (2002), pp. 59-84.
76. “*Combined Application of Global Optimization and Nonlinear Dynamics to Detect State Resetting in Human Epilepsy*” (with L. Iasemidis, D.-S. Shiau, and J.C. Sackellares), In *Biocomputing* (Edited by P.M. Pardalos and J. Principe), Kluwer Academic Publishers (2002), pp. 140-158.

77. “*Classical and Quantum Controlled Lattices: Self-Organization, Optimization and Biomedical Applications*” (with V. Yatsenko and J.C. Sackellares), In **Biocomputing** (Edited by P.M. Pardalos and J. Principe), Kluwer Academic Publishers (2002), pp. 199-224.
78. “*A dynamic slope scaling procedure for the mixed-charge cost multi-commodity network flow problem*” (with S. Duni and H.E. Romeijn), In **Financial Engineering, Supply Chain and E-commerce** (Edited by P.M. Pardalos and V. Tsitsiringos), Kluwer Academic Publishers (2002), pp. 247-270.
79. “*Global Optimization Approaches to Reconstruction of Dynamical Systems Related to Epileptic Seizures*” (with L. Iasemidis, V. Yatsenko and J.C. Sackellares), In **Scattering and Biomedical Engineering: Modeling and Applications** (Edited by D. Fotiadis and C.V. Massalas), World Scientific (2002), pp. 308-318.
80. “*Finding maximum independent sets in graphs arising from coding theory*” (with S. Butenko, I. Sergienko, V. Shylo, and P. Stetsyuk), **Symposium on Applied Computing**, Madrid, Spain (2002), ACM Press, pp. 542-546.
81. “*Solving Large scale Fixed Charge Network Flow Problems*” (with S. Duni-Eksioglu and B. Eksioglu), In **Equilibrium Problems and Variational Models** (Edited by A. Maugeri and F. Giannessi), Kluwer Academic Publishers (2002).
82. “*A scenario-based heuristic for a capacitated transportation-inventory problem with stochastic demands*” (with P. Chaovalitwongse and H.E. Romeijn), In **Computational Methods in Decision-Making, Economics and Finance** (Edited by E. Kontoghiorghes et al.), Kluwer Academic Publishers (2002), pp. 231-248.
83. “*Modeling and Optimization in Massive Graphs*” (with V. Boginski and S. Butenko), In **Novel Approaches to Hard Discrete Optimization**, Fields Institute Communications Series Vol. 37, American Mathematical Society (2003), pp. 17-39.
84. “*On Structural Properties of the Market Graph*” (with V. Boginski and S. Butenko), In **Innovations in Financial and Economic Networks** (Edited by A. Nagurney), Edward Elgar Publishers (2003), pp. 29-45.
85. “*Estimating the size of Correcting Codes using Extremal Graph Problems*” (with S. Butenko, I. Sergienko, V. Shylo, and P. Stetsyuk), In **Optimization: Structure and Applications** (Edited by C. Pearce et al.), Kluwer Academic Publishers (2003).
86. “*Cryogenic-optical sensor for the highly sensitive gravity meters* (with V. Yatsenko and J. Principe), In **Sensors, Systems, and Next-Generation Satellites VI** (Edited by H. Fyjisada, J.B. Lurie, and K. Weber), **Proceedings of SPIE Vol. 4881** (2003), pp. 549-557.
87. “*Development of the Method and the Device for Remote Sensing of Vegetation* (with V. Yatsenko and S.M. Kochubey), In **Remote Sensing for Agriculture, Ecosystems, and Hydrology IV** (Edited by Manfred Owe, Guido D’Urso, and Leonidas Toullos) **Proceedings of SPIE, Vol. 4879** (2003).
88. “*Extended frontiers in optimization techniques*” (with S. Butenko), In **New Optimization Techniques in Engineering** (Edited by G.C. Onwubolu, and B.V. Babu), Springer-Verlag (2004), pp. 703-712.

89. “*On the Performance of Heuristics for Broadcast Scheduling* (with C.W. Commander, S.I. Butenko), In *Theory and Algorithms for Cooperative Systems* (Edited by D. Grundel, R. Murphey, and P. Pardalos), pp. 63–80, World Scientific, 2004.
90. “*K-Means Clustering Using Entropy Minimization* (with A. Okafor), In *Theory and Algorithms for Cooperative Systems* (Edited by D. Grundel, R. Murphey, and P. Pardalos), pp. 339–352, World Scientific, 2004.
91. “*Integer Formulations for the Message Scheduling Problem on Controller Area Networks* (with C. Oliveira, T. Querido), In *Theory and Algorithms for Cooperative Systems* (Edited by D. Grundel, R. Murphey, and P. Pardalos), pp. 353–366, World Scientific, 2004.
92. “*A Numerical Method for Concave Programming Problems*” (with A. Chinchuluun, E. Rentsen), In *Continuous Optimization: Current Trends and Modern Applications* (Edited by A. Rubinov and V. Jeyakumar), Springer (2005), pp. 251–273.
93. “*Optimization Techniques in Medicine*” (with V.L. Boginski, O. Prokopyev, W. Subaritdamrong, P. Carney, W. Chaovalitwongse, and A. Vazakopoulos), In *Essays and Surveys in Global Optimization* (Edited by C. Audet, P. Hansen, and G. Savard), Springer (2005), pp. 211–232.
94. “*Continuous Approaches for Solving Discrete Optimization Problems*” (with O. Prokopyev and S. Busygin), In *Handbook on Modelling for Discrete Optimization* (Edited by G. Appa, L. Pitsoulis, and H.P. Williams), Springer (2006), pp. 39–60.
95. “*Parallel computing in global optimization*” (with M. D’Apuzzo, M. Marino, A. Migdalas, G. Toraldo,), In *Handbook of Parallel Computing and Statistics* (Edited by E.J. Kontoghiorghes), Chapman & Hall / CRC (2006), pp. 225–258.
96. “*Nonlinear optimization: A parallel linear algebra standpoint*” (with M. D’Apuzzo, M. Marino, A. Migdalas, G. Toraldo), In *Handbook of Parallel Computing and Statistics* (Edited by E.J. Kontoghiorghes), Chapman & Hall / CRC (2006), pp. 229–281.
97. “*Optimization Problems in Multicast Tree Construction*” (with C. Oliveira and M.G.C. Resende), In *Handbook of Optimization in Telecommunications* (Edited by M.G.C. Resende and P.M.Pardalos), Springer (2006), pp. 701–731.
98. “*Optimization in E-commerce*” (with M. Kourgiantakis, I. Mandalianos, and A. Migdalas), In *Handbook of Optimization in Telecommunications* (Edited by M.G.C. Resende and P.M.Pardalos), Springer (2006), pp. 1017–1050.
99. “*Ad Hoc Networks: Optimization Problems and Solution Methods*”, (with C. Oliveirra), In *Combinatorial Optimization in Communication Networks* (Edited by M.X. Cheng, Y. Li, and D.-Z. Du), Springer (2006), pp. 147–170.
100. “*A Parallel Classification Method for Genomic and Proteomic Problems*”, (with M. R. Guarra-cino, C. Cifarelli, and O. Seref), In *20th International Conference on Advanced Information Networking and Applications - Volume 2 (AINA’06)* IEEE Press, pp. 588–592.
101. “*An approximate Winner Determination Algorithm for Hybrid Procurement Mechanisms in Logistics*” (with C. Yadati and C.A.S. Oliveira), In *Optimisation, Econometric and Financial Analysis* (Edited by E.J. Kontoghiorghes, and Gatu C.), volume 9 of *Advances on Computational Management Science*, pp. 51–66 (Springer, 2006).

102. “*Mutiobjective programming problems under generalized convexity*” (with A. Chinchuluun), In *Models and Algorithms for Global Optimization* (Edited by A. Torn and J. Zilinskas), Springer (2007), pp. 3-20.
103. “*Optimality conditions and duality for multiobjective programming involving $(C; \alpha; \rho; d)$ -type I functions*” (with D. Yuan, X. Liu, A. Chinchuluun). In *Generalized Convexity and Related Topics*, (I. V. Konnov, D. T. Luc, A. M. Rubinov, Eds), Springer 2007, pp. 73-87.
104. “*Quantitative analysis on electrooculography (EOG) for neurodegenerative disease*” (with Chang-Chia Liua, W. Art Chaovalitwongse, Onur Seref, Petros Xanthopoulos, J. C. Sackellares, and Frank M. Skidmore). In *Data Mining, Systems Analysis, and Optimization in Biomedicine*, (Edited by O. Seref, O.E. Kundakcioglu, and P.M. Pardalos), AIP Conference Proceedings, Vol. 953, pp 246-253 (2007).
105. “*GRASP with path relinking for the Cooperative communication problem in ad-hoc networks*,” (with C.W. Commander, P. Festa, C.A.S. Oliveira, M.G.C. Resende, and M. Tsitselis), In *Cooperative Networks: Control and Optimization*, (D.A. Grundel, R.A. Murphey, P.M. Pardalos, and O.A. Prokopyev, Eds), Edward Elgar Publishing, 2008, pp. 187-207.
106. “*Eavesdropping and jamming communication networks*,” (with C.W. Commander, V. Ryabchenko, S. Uryasev, and G. Zrazhevsky), In *Cooperative Networks: Control and Optimization*, (D.A. Grundel, R.A. Murphey, P.M. Pardalos, and O.A. Prokopyev, Eds), Edward Elgar Publishing, 2008, pp. 101-112.
107. “*Optimal Execution of Time-constrained Portfolio Transactions*” (with F. AitSahlia and F. Y-C Sheu), In *Computational Methods in Financial Engineering*, (E. J. Konthoghiorges, B. Rustem, and P. Winker (eds.)) Springer (2008), pp. 95-102.
108. “*Semidefinite Programming Approaches for Bounding Asian Option Prices*” (with G. Dalakouras and R. Kwon), In *Computational Methods in Financial Engineering*, (E. J. Konthoghiorges, B. Rustem, and P. Winker (eds.)) Springer (2008), pp. 103-116.
109. “*Optimization Approaches to Vision-Based Trajectory Planning for Autonomous Micro-Air Vehicles*” (with Zabarankin, M., Kurdila A., Prokopyev O., Goel A., and Causey R.) In *Cooperative Networks: Control and Optimization* (D. Grundel et al. Eds.), Edward Elgar Publishing (2008), pp. 311-342.
110. “*Computational methods for Probe Design and Selection*” (with Claudio N. Meneses and Michelle A. Ragle), In *Optimization in Medicine and Biology* (G.L. Lim & E.K. Lee, Eds) Auerbach Publications, Taylor & Francis Group (2008), pp. 395-414.
111. “*Selective linear and nonlinear classification*,” (with E. Kundakcioglu), In “Data Mining and Mathematical Programming”, CRM Vol.45 (2008), American Mathematical Society (P. M. Pardalos and P. Hansen, Eds), pp. 211-234.
112. “*Current classification algorithms for biomedical applications*,” (with M.G. Guarracino, S. Cuciniello, D. Feminiano and G. Toraldo), In “Data Mining and Mathematical Programming”, CRM Vol.45 (2008), American Mathematical Society (P. M. Pardalos and P. Hansen, Eds), pp. 109-128.
113. “*Improving the Neighborhood Selection Strategy in Simulated Annealing Using the Optimal Stopping Problem*,” (with Saed Alizamir and Steffen Rebennack), In “Simulated Annealing” (Ed. Cher Ming Tan) I-Tech (2008), pp. 363-382.

114. “*Data Structures and Algorithms*” (with C. Oliveira and O. Prokopyev), In *Wiley Encyclopedia of Computer Science and Engineering*” (Edited by Benjamin Wah), John Wiley & Sons Inc. (2008), Vol. 2, pp. 861-869.
115. “*Dynamic Feature Extraction From Brain Dynamics,*” (with C.-C. Liu, W. Art Chaovalitwongse, and B.M. Uthman), In “*Encyclopedia of Data Warehousing and Mining*” (Ed. J. Wang), 2nd Edition, IGI Global (2009), pp.729-735.
116. “*Robust Wireless Network Jamming Problems,*” (with Clayton W. Commander, Valeriy Ryabchenko, Sergey Sarykalin, Timofey Turko, and Stan Uryasev), In “*Optimization and Cooperative Control Strategies,*” Lecture Notes in Control and Information Sciences Vol 381 Springer (2009), pp. 399-416.
117. “*Time-Frequency Analysis of Brain Neurodynamics,*” (with W. Chaovalitwongse and W. Subarutdamrong), In *Advances in Applied Mathematics and Global Optimization* (D. Gao and H. Serali, Eds), Springer (2009), pp. 107-136.
118. “*Multilevel (Hierarchical) Optimization: Complexity Issues, Optimality Conditions, Algorithms,*” (with A. Chinchuluun and H-X. Huang), In *Advances in Applied Mathematics and Global Optimization* (D. Gao and H. Serali, Eds), Springer (2009), pp. 197-221.
119. “*Estimating the size of Correcting Codes using Extremal Graph Problems*” (with S. Butenko, I. Sergienko, V. Shylo, and P. Stetsyuk), In *Optimization: Structure and Applications* (Edited by C. Pearce and Emma Hunt) Springer (2009), pp. 227-243.
120. “*A Retrospective Review of Social Networks*” (with Petros Xanthopoulos, Ashwin Arulselvan, and Vladimir Boginski), In *Advances in Social Network Analysis and Mining* (Memon, N. & Alhajj, R. (Eds)), IEEE Computer Society (2009), pp. 300-305.
121. “*Predicting the Nexus between Post-Secondary Education Affordability and Student Success: An Application of Network-based Approaches*” (with Ashwin Arulselvan, Vladimir Boginski, and Pilar Mendosa), In *Advances in Social Network Analysis and Mining* (Memon, N. & Alhajj, R. (Eds)), IEEE Computer Society (2009), pp. 149-154.
122. “*Neural network classification with prior knowledge for analysis of biological data*” (with D. Abbate, M. R. Guarracino, and A. Chinchuluun), In *BIOMAT 2008 International Symposium on Mathematical and Computational Biology* (Rubem P Mondaini (Ed), World Scientific (2009), ISBN: 978-981-4271-81-3, pp. 223 - 234.
123. “*Logic formulas based knowledge discovery and its application to the classification of biological data*” (with D. Abbate, M. R. Guarracino, and A. Chinchuluun), In *BIOMAT 2008 International Symposium on Mathematical and Computational Biology* (Rubem P Mondaini (Ed), World Scientific (2009), ISBN: 978-981-4271-81-3, pp. 265 - 279.
124. “*Efficient prediction of protein-protein interactions using sequence information*” (with M. R. Guarracino, A. Nebbia, V. Manna, and A. Chinchuluun) 4th IEEE Conference on Complex, Intelligent and Software Intensive Systems (CISIS 2010), February 2010, Pages 677-682.
125. “*Integer Programming of Biclustering Based on Graph Models*” (with Neng Fan and Altannar Chinchuluun), *Springer Optimization and Its Applications*, Volume 39, Optimization and Optimal Control (edited by A. Chinchuluun, P.M. Pardalos, R. Enkhbat and I. Tseveendorj), (2010) 479-498.

126. “*Recent Advances of Data Biclustering with Application in Computational Neuroscience*” (with Neng Fan and Nikita Boyko), Springer Optimization and Its Applications, Volume 38, Computational Neuroscience (edited by W. Chaovalitwongse, P.M. Pardalos and P. Xanthopoulos), (2010) 105-132.
127. “*Computational Challenges with Cliques, Quasi-cliques and Clique Partitions in Graphs*” (with Steffen Rebennack) Experimental Algorithms (SEA 2010), Lecture Notes in Computer Science Vol. 6049 (2010) Springer-Verlag, (Editor Paola Festa), pp. 13-22.
128. “*Economics of Gambling on Sports: A Multistage Stochastic Programming Approach to American Jai Alai Gambling Strategies*” (with Qipeng P. Zheng and Yingyan Lou), In “Optimal Strategies in Sports Economics and Management”, (Eds S. Butenko et al), Springer (2010), pp. 199-215.
129. “*Optimization Models in the Natural Gas Industry*” (with Zheng, Qipeng P., Rebennack, Steffen and Iliadis, Niko A.) In “Handbook of Power Systems I,” Springer (2010), pp. 121-148.
130. “*Energy Portfolio Optimization for Electric Utilities: Case Study for Germany*” (with Rebennack, Steffen and Kallrath, Josef) In “Energy, Natural Resources and Environmental Economics,” Springer (2010), pp. 221-246.
131. “*Minimum-Prediction Error Models*” (with Jicong Zhang, Petros Xanthopoulos, Jui-Hong Chien, and Vera Tomaino) Wiley Encyclopedia of Operations Research and Management Science (2010).
132. “*Cardinality-Constrained Critical Node Detection Problem*” (with Ashwin Arulselvan, Clayton W. Commander, Oleg Shylo) In “Performance Models and Risk Management in Communications Systems,” (N. Gulpinar, P. Harrison, and B. Rustem, Eds.), Springer (2011), pp. 79-92.
133. “*Robust Optimization of Graph Partitioning and Critical Node Detection in Analyzing Networks*” (Neng Fan and Panos M. Pardalos), In “COMBINATORIAL OPTIMIZATION AND APPLICATIONS (COCOA 2010)” Springer Lecture Notes in Computer Science, 2010, Volume 6508 (2010), pp. 170-183.
134. “*An Optimization Approach for Finding a Spectrum of Lyapunov Exponents*” (with Vitaliy A. Yatsenko, Alexandre Messo, Altannar Chinchuluun, and Petros Xanthopoulos), In “W. Chaovalitwongse et al. (eds.), Computational Neuroscience, Springer Optimization and Its Applications 38,” pp. 285 - 303.
135. “*Forecasting Non-stationary Processes*” (with Jui-Hong Chien, Vera Tomaino, and Petros Xanthopoulos), In Wiley Encyclopedia of Operations Research and Management Science,” (edited by James J. Cochran), Volume 3, pages 1911-1921, John Wiley & Sons Inc. (2011).
136. “*Combining Forecasts*” (with Ingrida Radziukyniene, and Petros Xanthopolous), In Wiley Encyclopedia of Operations Research and Management Science,” (edited by James J. Cochran), Volume 1, pages 755-762, John Wiley & Sons Inc. (2011).
137. “*Biclustering: algorithms and applications in data mining and forecasting*” (with Nikita Boyko, Neng Fan, and Petros Xanthopolous), In Wiley Encyclopedia of Operations Research and Management Science,” (edited by James J. Cochran), Volume 1, pages 426-431, John Wiley & Sons Inc. (2011).

138. “*Model-Based Forecasting*” (with Ingrida Radziukyniene and Nikita Boyko), In *Wiley Encyclopedia of Operations Research and Management Science*,” (edited by James J. Cochran), Volume 5, pages 3305-3312, John Wiley & Sons Inc. (2011).
139. “*Minimum Prediction Error Models and Causal Relations between Multiple Time Series*,” In *Wiley Encyclopedia of Operations Research and Management Science*,” (with Jicong Zhang, Petros Xanthopoulos, and Vera Tomaino) (edited by James J. Cochran), Volume 5, pages 3271-3285, John Wiley & Sons Inc. (2011).
140. “*Feasible Direction Method*” (with Weili Wu, DingZhu Du and Nassim Sohaee), In *Wiley Encyclopedia of Operations Research and Management Science*,” (edited by James J. Cochran), Volume 3, pages 1843-1850, John Wiley & Sons Inc. (2011).
141. “*Deterministic Global Optimization*” (with Qipeng P. Zheng and Ashwin Arulselvan), In *Wiley Encyclopedia of Operations Research and Management Science*,” (edited by James J. Cochran), Volume 2, pages 1388-1407, John Wiley & Sons Inc. (2011).
142. “*On the two-stage stochastic graph partitioning problem*” (with Neng Fan and Qipeng P. Zheng), COCOA 2001, Lecture Notes in Computer Science 6831 (W. Wang, X. Zhu, and D.-Z. Du, Eds), Springer (2011), pp. 500-509.
143. “*Data Mining in Psychiatric Research*” (with Diego Tovar, Eduardo Cornejo, Petros Xanthopoulos, and Mario R. Guarracino), In *Psychiatric Disorders: Methods and Protocols, Methods in Molecular Biology*, vol. 829 (Kobeissy, Firas H. (Ed.)), Springer (2012), pp. 593-603.
144. “*The Coastal Science Educational Virtual Appliance (CSEVA)*,” (with Davis, J. R., Paramygin, V. A., Figueiredo, R. J., Sheng, Y. P., Vogiatzis), In *Estuarine and Coastal Modeling: Proceedings of the Twelfth International Conference*, Malcolm L. Spaulding ed., ASCE, Reston, VA. (2012), pp. 359-377.
145. “*DATA MINING AND OPTIMIZATION APPLIED TO RAMAN SPECTROSCOPY FOR ONCOLOGY APPLICATIONS*” (with M. Fenn, V. Pappu, and P. Xanthopoulos), In *BIOMAT 2011 International Symposium on Mathematical and Computational Biology* (Rubem P Mondaini (Ed), World Scientific (2012), ISBN: 978-981-4397-70-4, pp. 84-108.
146. “*A Decomposition Approach for Solving Critical Clique Detection Problems*” (Jose L. Walteros and Panos M. Pardalos), In “*Experimental Algorithms (SEA 2012)*” Springer Lecture Notes in Computer Science, Volume 7276 (2012), pp. 393-404.
147. “*Using Relative Power Asymmetry as a Biomarker for Classifying Psychogenic Nonepileptic Seizure and Complex Partial Seizure Patients*” (Jui-Hong Chien, Deng-Shan Shiau, J. Chris Sackellares, Jonathan J. Halford, Kevin M. Kelly and Panos M. Pardalos), In “*DATA MINING FOR BIOMARKER DISCOVERY*” Springer Optimization and Its Applications, 2012, Volume 65, pp. 57-77.
148. “*Studying Connectivity Properties in Human Protein Protein Interaction Network in Cancer Pathway*” (Vera Tomaino, Ashwin Arulselvan, Pierangelo Veltri, and Panos M. Pardalos), In “*DATA MINING FOR BIOMARKER DISCOVERY*” Springer Optimization and Its Applications, 2012, Volume 65, pp. 187- 197
149. “*Selected Topics in Critical Element Detection*” (Jose L. Walteros and Panos M. Pardalos), In “*APPLICATIONS OF MATHEMATICS AND INFORMATICS IN MILITARY SCIENCE* (N.J. Daras, Ed.)” Springer (2012), pp. 9-26.

150. “*Global Equilibrium Search Algorithms for Combinatorial Optimization Problems*” (Oleg Shylo, Dmytro Korenkevych and Panos M. Pardalos), Lecture Notes in Computer Science Volume 7492, Springer (2012), pp. 277-286,
151. “*Correntropy in Data Classification*” (Mujahid N. Syed, Jose C. Principe, Panos M. Pardalos), In “Dynamics of Information Systems: Mathematical Foundations,” Springer Proceedings in Mathematics & Statistics Volume 20, 2012, pp. 81-117.
152. “*Pattern-Based Heuristic for the Cell Formation Problem in Group Technology*” (Mikhail Batsyn, Ilya Bychkov, Boris Goldengorin, Panos Pardalos, Pavel Sukhov), In “Models, Algorithms, and Technologies for Network Analysis,” Springer Proceedings in Mathematics & Statistics Volume 32, 2013, pp. 11-50
153. “*Network-Based Representation of Stock Market Dynamics: An Application to American and Swedish Stock Markets*” (David Jallo, Daniel Budai, Vladimir Boginski, Boris Goldengorin, Panos M. Pardalos), In “Models, Algorithms, and Technologies for Network Analysis,” Springer Proceedings in Mathematics & Statistics Volume 32, 2013, pp. 93-106.
154. “*How Close to Optimal Are Small World Properties of Human Brain Networks?*” (Dmytro Korenkevych, Frank Skidmore, Boris Goldengorin, Panos M. Pardalos), In “Models, Algorithms, and Technologies for Network Analysis,” Springer Proceedings in Mathematics & Statistics Volume 32, 2013, pp. 117-127.
155. “*Evacuation Through Clustering Techniques?*” (Chrysafis Vogiatzis, Jose L. Walteros, Panos M. Pardalos), In “Models, Algorithms, and Technologies for Network Analysis,” Springer Proceedings in Mathematics & Statistics Volume 32, 2013, pp. 185-198.
156. “*Biased random-key genetic algorithm for non-linearly constrained global optimization*” (R.M.A. Silva, M.G.C. Resende, P.M. Pardalos, and J.L.D. Faco), Proceedings of the 2013 IEEE Congress on Evolutionary Computation (CEC), pp. 2201-2206, Cancun, June 20-23, 2013
157. “*Combinatorial Optimization in Transportation and Logistics Networks*” (Chrysafis Vogiatzis, Panos M Pardalos), In “Handbook of Combinatorial Optimization,” Springer (2013), pp. 673-722.
158. “*Small World Networks in Computational Neuroscience*” (Dmytro Korenkevych, Jui-Hong Chien, Jicong Zhang, Deng-Shan Shiau, Chris Sackellares, Panos M. Pardalos), In “Handbook of Combinatorial Optimization,” Springer (2013), pp. 3057-3088.
159. “*Fuzzy Combinatorial Optimization Problems*” (Panos M. Pardalos, Emel Kizilkaya Aydogan, Feyza Gurbuz, Ozgur Demirtas, Birce Boga Bakirl), In “Handbook of Combinatorial Optimization,” Springer (2013), pp. 1357-1413.
160. “*Neural Network Models in Combinatorial Optimization*” (Mujahid N. Syed, Panos M. Pardalos), In “Handbook of Combinatorial Optimization,” Springer (2013), pp. 2027-2093.
161. “*SEIZURE MANIFOLD OF THE EPILEPTIC BRAIN: A STATE SPACE RECONSTRUCTION APPROACH*” (MUJAHID N. SYED, PANDO G. GEORGIEV, PANOS M. PARDALOS), In BIOMAT 2012 International Symposium on Mathematical and Computational Biology (Rubem P Mondaini (Ed), World Scientific (August 2013), ISBN: 978-981-4520-81-2, pp. 86-114.

162. “*Comparative Analysis of the BRIC Countries Stock Markets Using Network Approach*” (Arsenii Vizgunov, Andrey Glotov, Panos M. Pardalos), In “Models, Algorithms, and Technologies for Network Analysis,” Springer Proceedings in Mathematics & Statistics Volume 59 (2013), pp. 191-201.
163. “*On the Design of Agent Agreement Protocol using Linear Error-Correcting Codes*” (P.E. Nas-toum P. Pardalos, P. Spirakis, and Y.C. Stamatiou), In “Applications of Mathematics and Informatics in Science and Engineering,” Springer Optimization and Its Applications Volume 91 (2014), pp. 389-403.
164. “*Bilinear Markovian Processes of Search for Stationary and Moving Objects*” (Panos M. Parda-los, Vitaliy A. Yatsenko, Michael B. Fenn, Arkadii A. Chikrii), In “Volume 37: Examining Robustness and Vulnerability of Networked Systems,” NATO Science for Peace and Security Series - D: Information and Communication Security (Sergiy Butenko, Eduardo L. Pasiliao, Volodymyr Shylo, Editos) IOS Press (2014), pp. 209 - 230, [SBN978-1-61499-390-2].
165. “*A General Approach to Network Analysis of Statistical Data Sets*” (Valery A. Kalygin, Alexan-der P. Koldanov, Panos M. Pardalos), In **Lecture Notes in Computer Science 8426**, Springer 2014, pp. 88-97.
166. “*A Novel Hybrid Dynamic Programming Algorithm for a Two-Stage Supply Chain Scheduling Problem*” (Jun Pei, Xinbao Liu, Wenjuan Fan, Panos M. Pardalos), In **Lecture Notes in Computer Science 8426**, Springer 2014, pp. 242-257.
167. “*Robust Support Vector Machines with Polyhedral Uncertainty of the Input Data*” (Neng Fan, Elham Sadeghi, Panos M. Pardalos), In **Lecture Notes in Computer Science 8426**, Springer 2014, pp. 291-305.
168. “*Raman Spectroscopy Using a Multiclass Extension of Fisher-Based Feature Selection Support Vector Machines (FFS-SVM) for Characterizing In-Vitro Apoptotic Cell Death Induced by Paclitaxel*” (Michael B. Fenn, Mario Rosario Guarracino, Jiaying Pi, Panos M. Pardalos), In **Lecture Notes in Computer Science 8426**, Springer 2014, pp. 306-323.
169. “*The Theory of Set Tolerances*” (Gerold Jare Boris Goldengorin, Panos M. Pardalos), In **Lecture Notes in Computer Science 8426**, Springer 2014, pp. 362-377.
170. “*A New Existence Condition for Hadamard Matrices with Circulant Core*” (Ilias S. Kotsireas, Panos M. Pardalos), In **Lecture Notes in Computer Science 8426**, Springer 2014, pp. 383-390.
171. “*A Pseudo-Boolean Approach to the Market Graph Analysis by Means of the p-Median Problem*” (Boris Goldengorin, Anton Kocheturov, and Panos M. Pardalos), In **Clusters, Orders, and Trees: Methods and Application** (F. Aleskerov et al. Editors), Springer 2014, pp. 77-89.
172. “*Construction of Pairs of Reproducing Kernel Banach Spaces*” (Pando G. Georgiev, Luis Sánchez-González and Panos M. Pardalos), in **Springer Optimization and Its Applications**, Vol. 87, Constructive Nonsmooth Analysis and Related Topics, pp 39-57 (2014).
173. “*High Dimensional Data Classification*” (Vijay Pappu and Panos M. Pardalos), In **Clusters, Orders, and Trees: Methods and Application** (F. Aleskerov et al. Editors), Springer 2014, pp. 119-150.

174. “*Blind Signal Separation Methods in Computational Neuroscience*” (Mujahid N. Syed, Pando G. Georgiev, Panos M. Pardalos), *Neuromethods* Volume 91 (Springer 2015), pp. 291-322.
175. “*Probabilistic Classifiers in Prognostic Medicine*” (Dmytro Korenkevych and Petar Momcilovic and Azra Bihorac and Tezcan Ozrazgat Baslanti and Panos M. Pardalos), *Operations Research for Medical Decision Making* (Editor, Eva Lee), (Springer 2015).
176. “*Future Research on Multiobjective Coordinated Scheduling Problems for Discrete Manufacturing Enterprises in Supply Chain Environments*” (J. Pei, X. Liu, W Fan, A. Migdalas, and P.M. Pardalos), *Supply Chain Management and Logistics: Innovative Startegies and Practical Solutions* (Zhe Liang, Wanpracha Art Chaovalitwongse, Leyuan Shi, Eds), (CRC Press 2015), pp. 19-42.
177. “*A Method for Creating Private and Anonymous Digital Territories Using Attribute-Based Credential Technologies*” (PE Nastou, D Nastouli, PM Pardalos, YC Stamatiou), *Computation, Cryptography, and Network Security* (Edited by Nicholas J. Daras, Michael Th. Rassias), (Springer 2015).
178. “*Step Down and Step Up Statistical Procedures for Stock Selection with Sharp Ratio*” (Alexander P. Koldanov, Valeriy A. Kalyagin, Panos M. Pardalos), *Lecture Notes in Computer Science* 9432, (Springer 2015)
179. “*Multidimensional Scaling for Genomic Data*” (Audrone Jakaitiene, Mara Sangiovanni, Mario R. Guarracino, Panos M. Pardalos), in *Springer Optimization and Its Applications*, Volume 107, *Advances in Stochastic and Deterministic Global Optimization, Part II*, pp 129-139 (2016).
180. “*Assess and Prognosticate Operational and Environmental Efficiency of Primary Sectors of EU Countries: Implementation of DEA Window Analysis and ANNs*” (George Vlontzos and Panos M. Pardalos), in *Driving Agribusiness With Technology Innovations*, pp 1-19 Editors: Tarnanidis, Th., Vlachopoulou, M., and Papathanasiou J., Eds. IGI Global, DOI: 10.4018/978-1-5225-2107-5 (March 2017).
181. “*Deterministic Global Optimization*” (S. Butenko and P.M. Pardalos), in *Advances and Trends in Optimization with Engineering Applications* (T.Terlaky, M. F. Anjos, S. Ahmed, Eds), SIAM 2017, pp. 163-174.
182. “*Heuristic for Maximizing Grouping Efficiency in the Cell Formation Problem*” (Bychkov, Ilya, Batsyn, Mikhail and Pardalos, Panos M.), Kalyagin V., Nikolaev A., Pardalos P., Prokopyev O. (eds) *Models, Algorithms, and Technologies for Network Analysis NET 2016*. Springer Proceedings in Mathematics & Statistics, vol 197. Springer, Cham (2017).
183. “*Tolerance-Based vs. Cost-Based Branching for the Asymmetric Capacitated Vehicle Routing Problem*” (M. Batsyn, B. Goldengorin, A. Kocheturov, P.M. Pardalos), in *Models, Algorithms, and Technologies for Network Analysis*, Springer (2013), pp. 1-10.
184. “*Sustainability and Efficiency of Sugarcane Cultivation in India*” (P. M. Pardalos, G. Vlontzos), *Sustainable Sugarcane Production* (P. Singh and A.K. Tiwary, Eds), Apple Academic Press (2018). pp. 77-92.
185. “*Frequent Temporal Pattern Mining with Extended Lists*” (A. Kocheturov, P. M. Pardalos), *Tends in Biomathematics: Modeling, Optimization and Computational Problems* (Rubem P. Mondaini, Editor), Springer (2018), Pages 233-244.

186. “*Stochastic Methods for Global Optimization and Problem Solving*” (Giovanni Stracquadanio, Panos M. Pardalos), *Encyclopedia of Bioinformatics and Computational Biology* (Ranganathan, S., Nakai, K., Schonback, C. and Bribskov, M., Eds), Vol. 1, pp 321-327, Oxford: Elsevier (2019)
187. “*No Free Lunch Theorem: A Review*” (Adam S.P., Alexandropoulos SA.N., Pardalos P.M., Vrahatis M.N.), In: Demetriou I., Pardalos P. (eds) *Approximation and Optimization. Springer Optimization and Its Applications*, vol 145. Springer, Cham (2019)
188. “*Data-Dependent Approximation in Social Computing*” (Wu W., Li Y., Pardalos P.M., Du DZ.), In: Demetriou I., Pardalos P. (eds) *Approximation and Optimization. Springer Optimization and Its Applications*, vol 145. Springer, Cham (2019)
189. “*Electricity Market Structure and Pricing Analyses*” (Pardalos P.M., Singh A., Wang W.) In: Butenko S., Pardalos P., Shylo V. (eds) *Optimization Methods and Applications. Springer Optimization and Its Applications*, vol 130. Springer, Cham (2017)
190. “*Ambient-Intelligent Decision Support System (Am-IDSS) for Smart Manufacturing*” (Marzieh Khakifirooz, Mahdi Fathi, Yiannis Ampatzidis, Panos Pardalos) In: Mehdi Khosrow-Pour D.B.A. *Encyclopedia of Organizational Knowledge, Administration, and Technology* (5 Volumes), Chapter 163, IGI Global (2020).
191. “*Decision Support for Smart Manufacturing*” (Marzieh Khakifirooz, Mahdi Fathi, Panos Pardalos, Daniel Power) In: Mehdi Khosrow-Pour D.B.A. *Encyclopedia of Organizational Knowledge, Administration, and Technology* (5 Volumes), Chapter 164, IGI Global (2020).
192. “*On Network Similarities and Their Applications*” (Granata I., Guarracino M.R., Maddalena L., Manipur I., Pardalos P.M.) In: Mondaini R. (eds) *Trends in Biomathematics: Modeling Cells, Flows, Epidemics, and the Environment. BIOMAT 2019. Springer, Cham*, doi.org/10.1007/978-3-030-46306-9_3

BOOKS EDITED:

1. *Computational Methods in Global Optimization*, co-editors: P.M. Pardalos, J.B. Rosen, *Annals of Operations Research* Vol. 25 (1990).

Book review appeared in:

- *European Journal of Operational Research* 54 (1991), pp. 372–375

2. *Advances in Optimization and Parallel Computing*, editor: P.M. Pardalos, North-Holland (1992).
3. *Recent Advances in Global Optimization*, co-editors: C.A. Floudas, P.M. Pardalos, Princeton University Press, (1992).

Book reviews appeared in:

- *Mathematics of Computation* (1993).
- *Mathematical reviews* 92: 900010

4. *Network Optimization Problems: Algorithms, Complexity and Applications*, co-editors: D.-Z. Du and P.M. Pardalos, World Scientific, (1993).

5. Complexity in Numerical Optimization, editor: P.M. Pardalos, World Scientific, (1993).

6. Large Scale Optimization: The State of the Art, co-editors: W. Hager, D. Hearn and P.M. Pardalos, Kluwer Academic Publishers, (1994).

Book review appeared in:

- *Optima (1996)*.

7. Quadratic Assignment and Related Problems, co-editors: P.M. Pardalos and H. Wolkowicz, DIMACS Series Vol. 16, American Mathematical Society (1994).

8. Advances in Multicriteria Analysis, co-editors: P.M. Pardalos, Y. Siskos and C. Zopounidis, Kluwer Academic Publishers, (1995).

Book reviews appeared in:

- *Journal of Behavioral Decision Making Vol. 11 (1998), pp. 151-160.*
- *Mathematical reviews 98e:90007.*

9. Handbook of Global Optimization, co-editors: R. Horst and P.M. Pardalos, Kluwer Academic Publishers, (1995).

10. Minimax and Applications, co-editors: DingZhu Du and P.M. Pardalos, Kluwer Academic Publishers, (1995).

Book reviews appeared in:

- *Journal of Global Optimization 11 (1997), pp. 219-220.*

11. Parallel Processing of Discrete Optimization Problems, co-editors: P.M. Pardalos, M.G.C. Resende and K.G. Ramakrishnan, DIMACS Series Vol. 22, American Mathematical Society, (1995).

12. Global Minimization of Nonconvex Energy Functions: Molecular Conformation and Protein Folding, co-editors: P.M. Pardalos, D. Shalloway and G. Xue, DIMACS Series Vol. 23, American Mathematical Society, (1996).

Book reviews appeared in:

- *Journal of Global Optimization 11 (1997), pp. 221-223.*

13. State of the Art in Global Optimization : Computational Methods and Applications, co-editors: C. Floudas and P.M. Pardalos, Kluwer Academic Publishers, (1996).

14. Solving Combinatorial Optimization Problems in Parallel: Methods and Techniques, co-editors: A. Ferreira and P.M. Pardalos, Springer-Verlag, Lecture notes in computer science, Vol. 1054 (1996).

15. Developments in Global Optimization, co-editors: I. Bomze, T. Csendes, R. Horst and P.M. Pardalos, Kluwer Academic Publishers, (1997).

Book review appeared in:

- *European Journal of Operational Research 107 (1998), p. 245*

- *Journal of the Operational Research Society Vol. 50, No. 3, pp. 286–287.*

16. **Network Optimization**, co-editors: P.M. Pardalos, D. Hearn and W. Hager, “Lecture Notes in Economics and Mathematical Systems” Vol. 450, Springer-Verlag (1997).
17. **Parallel Computing in Optimization**, co-editors: A. Migdalas, P.M. Pardalos and S. Storoy, Kluwer Academic Publishers, (1997).

Book reviews appeared in:

- *Journal of the Operational Research Society Vol. 49, No. 7, pp. 770–771.*

18. **Multilevel Optimization: Algorithms and Applications**, co-editors: A. Migdalas, P.M. Pardalos and P. Varbrand, Kluwer Academic Publishers, (1997).
19. **Satisfiability Problem: Theory and Applications** co-editors: DingZhu Du, Jun Gu and Panos M. Pardalos, DIMACS Series Vol. 35, American Mathematical Society, (1997).
20. **Topics in Semidefinite and Interior-Point Methods**, co-editors: Panos M. Pardalos and Henry Wolkowicz, Fields Institute Communications Series Vol. 18, American Mathematical Society (1998).
21. **Network Design: Connectivity and Facilities Location**, co-editors: Panos M. Pardalos and DingZhu Du, DIMACS Series Vol. 40, American Mathematical Society, (1998).

Book reviews appeared in:

- *SIGACT News 31(2), pp. 5-9 (2000).*

22. **Optimal Control: Theory, Algorithms, and Applications**, co-editors: W. Hager and Panos M. Pardalos, Kluwer Academic Publishers, (1998).

Book reviews appeared in:

- *Optimization Methods & Software Vol. 13 (2000), pp. 226–230.*

23. **Parallel Processing of Discrete Problems**, editor: Panos M. Pardalos, Volume 106 of the IMA Volumes in Mathematics and its Applications, Springer-Verlag (1999).
24. **Randomization Methods in Algorithm Design**, co-editors: Panos Pardalos, Sanguthevar Rajasekaran, and Jose Rolim, DIMACS Series Vol. 43, American Mathematical Society, (1998).
25. **Multichannel Optical Networks: Theory and Practice**, co-editors: Peng-Jun Wan, Ding-Zhu Du, and Panos M. Pardalos, DIMACS Series Vol. 46, American Mathematical Society, (1998).

Book reviews appeared in:

- *Journal of Combinatorial Optimization Vol. 5, No. 4 (2001), pp. 495–496.*

26. **Managing in Uncertainty : Theory and Practice**, co-editors: Constantin Zopounidis and Panos M. Pardalos, Kluwer Academic Publishers, (1998).

Book reviews appeared in:

- *Optimization Methods & Software Vol. 15 (2001), pp. 331–333.*

27. *Handbook of Combinatorial Optimization*, co-editors: Panos M. Pardalos and DingZhu Du, Kluwer Academic Publishers, **5 Volumes: Volumes 1, 2, 3 (1998), Supplement Volume A (1999), Supplement Volume B (2001).**

Book reviews appeared in:

- *Journal of Global Optimization Vol. 19, No. 4 (2001), pp. 425–430.*

28. *High Performance Algorithms and Software in Nonlinear Optimization*, co-editors: R. De Leone, A. Murli, P.M. Pardalos and G. Toraldo, Kluwer Academic Publishers, (1999).

29. *Advances in Randomized Parallel Computing*, co-editors: P.M. Pardalos and Sanguthevar Rajasekaran, Kluwer Academic Publishers, (1999).

30. *Approximation and Complexity in Numerical Optimization: Continuous and Discrete Problems*, editor: P.M. Pardalos, Kluwer Academic Publishers, (2000).

31. *Optimization in Computational Chemistry and Molecular Biology*, co-editors: C. Floudas and P.M. Pardalos, Kluwer Academic Publishers, (2000).

32. *Equilibrium Problems and Variational Models*, co-editors: F. Giannessi, A. Maugeri, and P.M. Pardalos, Kluwer Academic Publishers, (2001).

33. *New Trends in Equilibrium Systems*, co-editors: F. Giannessi, P.M. Pardalos, and T. Rapcsak, Kluwer Academic Publishers, (2001).

34. *Handbook of Massive Data Sets*, co-editors: J. Abello, P.M. Pardalos, and M. Resende, Kluwer Academic Publishers, (2002).

Book review appeared in:

- *Journal of Optimization Methods and Software Volume 18, Number 1 (2003), pp. 125-126.*

35. *Handbook of Applied Optimization*, co-editors: P.M. Pardalos, and M. Resende, Oxford University Press, (2002).

Book review appeared in:

- *Journal of Optimization Methods and Software Volume 21, Number 4 (2006), pp. 667-676.*

Honorable Mention, Outstanding Professional and Scholarly Titles of 2002 in Computer Science, Association of American Publishers.

36. *Mobile Networks and Computing*, co-editors: P.M. Pardalos, F. Hsu and S. Rajasekaran, DIMACS Series Vol. 52, American Mathematical Society, (2000).

Book reviews appeared in:

- *Journal of Combinatorial Optimization Vol. 5, No. 4 (2001), pp. 497–498.*

37. *Discrete Mathematical Problems with Medical Applications*, co-editors: DingZu Du, P.M. Pardalos, and Jie Wang, DIMACS Series Vol. 55, American Mathematical Society, (2000).

38. *Nonlinear Assignment Problems: Algorithms and Applications*, co-editors: P.M. Pardalos and L. Pitsoulis, Kluwer Academic Publishers, (2000).

39. *Handbook of Randomization (2 Volumes)*, co-editors: P.M. Pardalos, S. Rajasekaran, J. Reif, and J. Rolim, Kluwer Academic Publishers, (2001).
40. *Encyclopaedia of Optimization*, co-editors: C.A. Floudas and P. M. Pardalos, Kluwer Academic Publishers (6 Volumes), (2001).
Encyclopedia reviews can be found in:
- <http://www.wkap.nl/prod/b/0-7923-6932-7>
41. *Handbook of Global Optimization - Volume 2: Heuristic Approaches*, co-editors: P.M. Pardalos and E. Romeijn, Kluwer Academic Publishers, (2002).
42. *Supply Chain Management: Models, Applications, and Research Directions*, co-editors: Joseph Geunes, Panos Pardalos, Edwin Romeijn, Kluwer Academic Publishers, (2002).
Book review appeared in:
- *Interfaces Vol. 33, No. 4 (2003), pp. 82 - 83.*
43. *From Convexity to Nonconvexity*, co-editors: R.P. Gilbert, P.D. Panagiotopoulos, P.M. Pardalos, Kluwer Academic Publishers, (2001).
44. *From Local to Global Optimization*, co-editors: A. Migdalas, P.M. Pardalos and P. Varbrand, Kluwer Academic Publishers, (2001).
45. *Stochastic Optimization: Algorithms and Applications*, co-editors: S. Uryasev and P.M. Pardalos, Kluwer Academic Publishers, (2001).
Book review appeared in:
- *Interfaces Vol. 33, No. 1 (2003), pp. 100 - 102.*
46. *Fuzzy Systems in Management, Economy and Marketing*, co-editors: K. Zopounidis, P.M. Pardalos, and G. Baourakis, World Scientific, (2001).
47. *Combinatorial and Global Optimization*, co-editors: P.M. Pardalos, A. Migdalas, and R. Burkard, World Scientific, (2002).

Book review appeared in:
- *Mathematical reviews 2002m:90004.*
48. *Optimization Theory: Recent Developments from Matrahaza*, co-editors: F. Giannessi, P.M. Pardalos, and T. Rapcsack, Kluwer Academic Publishers, (2001).
49. *Advances in Convex Analysis and Global Optimization*, co-editors: N. Hadjisavvas and P.M. Pardalos, Kluwer Academic Publishers, (2001).
50. *Cooperative Control and Optimization*, co-editors: R. Murphey and P.M. Pardalos, Kluwer Academic Publishers, (2002).
51. *Biocomputing*, co-editors: P.M. Pardalos and J. Principe, Kluwer Academic Publishers, (2002).
52. *Financial Engineering, Supply Chain and E-commerce*, co-editors: P.M. Pardalos and V. Tsitsiringos, Kluwer Academic Publishers, (2002).

Book review appeared in:

- *Optimization Methods & Software Vol 18, No. 3 (2003), pp. 357-358.*
53. *Novel Approaches to Hard Discrete Optimization*, co-editors: P.M. Pardalos and H. Wolkowicz, Fields Institute Communications Series Vol. 37, American Mathematical Society (2003).
 54. *Optimization and Industry: New Frontiers*, co-editors: P.M. Pardalos and V. Korotkikh, Kluwer Academic Publishers, (2003).
Book review appeared in:
 - *Journal of the Operational Research Society 55 (2004), p. 787.*
 55. *Cooperative Control: Models, Applications and Algorithms*, co-editors: S. Butenko, R. Murphey and P.M. Pardalos, Kluwer Academic Publishers, (2003).
 56. *Optimization and Optimal Control*, co-editors: P.M. Pardalos, I. Tseveendorj, and R. Enkhbat, World Scientific, 2003
 57. *Recent Developments in Cooperative Control and Optimization*, co-editors: S. Butenko, R. Murphey and P.M. Pardalos, Kluwer Academic Publishers, (2003).
 58. *Frontiers in Global Optimization*, co-editors: C.A. Floudas, and P.M. Pardalos, Kluwer Academic Publishers, (2003).
 59. *Supply Chain Optimization*, co-editors: J. Geunes and P.M. Pardalos, Kluwer Academic Publishers, (2004).
 60. *Quantitative Neuroscience*, co-editors: P.M. Pardalos, C. Sackellares, P. Carney, and L. Iasemidis, Kluwer Academic Publishers, (2004).
 61. *Applications of Supply Chain Management and E-commerce Research in Industry*, co-editors: E. Alkali, J. Geunes, P.M. Pardalos, H.E. Romeijn, and Z.J. Shen, Kluwer Academic Publishers, (2004).
 62. *Economics, Management, and Optimization in Sports*, co-editors: S. Butenko, J. Gil-Lafuente, and P.M. Pardalos, Springer (2004).
 63. *Supply Chain and Finance*, co-editors: P.M. Pardalos, A. Migdalas, and G. Baourakis, World Scientific, (2004).
 64. *Theory and Algorithms for Cooperative Systems*, co-editors: P.M. Pardalos, D. Grundel, and R. Murphey, World Scientific, (2004).
Book review appeared in:
 - *Mathematical reviews MR2160830(2006b:90003)*.
 65. *Handbook of Optimization in Telecommunications*, co-editors: P.M. Pardalos and M.G.C. Resende, Springer, (2006).
 66. *Robust Optimization-Directed Design*, co-editors: A. Kurdila, P.M. Pardalos, and M. Zabaranin, Springer, (2006).
 67. *Multiscale Optimization Methods and Applications*, co-editors: W. Hager, S.-J. Huang, P.M. Pardalos, and O. Prokopyev, Springer, (2006).

68. *Cooperative Systems, Control and Optimization*, co-editors: D. Grundel, R. Murphey, P. Pardalos, and O. Prokopyev, *Lecture Notes in Economics and Mathematical Systems* , Vol. 588, Springer, (2007).
69. *Data Mining in Biomedicine*, co-editors: P.M. Pardalos, V. Boginski, and A. Vazakopoulos, Springer, (2007).
70. *Data Mining, Systems Analysis, and Optimization in Biomedicine*, co-editors: O. Seref, O.E. Kundakcioglu, and P.M. Pardalos, American Institute of Physics, (2007).
71. *Optimization in Medicine*, co-editors: C. Alves, P.M. Pardalos, and L. Vicente, Springer, (2008).
72. *Advances in Cooperative Control and Optimization - Proceedings of the 7th International Conference on Cooperative Control and Optimization*, co-editors: Hirsch, M.J., Pardalos, P.M., Murphey, R., Grundel, D., *Lecture Notes in Control and Information Sciences*, Vol. 369, Springer, (2008).
73. *Data Mining and Mathematical Programming*, co-editors: P.M. Pardalos and P. Hansen, CRM vol 45, American Mathematical Society, (2008).
74. *Mathematical Modelling of Biosystems*, co-editors: R.P. Modaini and P.M. Pardalos, Springer, (2008).
75. *Pareto Optimality, Game Theory and Equilibria*, co-editors: A. Chinchuluun, A. Migdaldas, P.M. Pardalos, and L. Pitsoulis, Springer, (2008).
76. *Cooperative Networks, Control and Optimization*, co-editors: Pardalos, P.M., Murphey, R., Grundel, D., and Prokopyev, O., Edward Elgar Publishing, (2008).
Book review appeared in:
 - *Optimization Methods and Software, Volume 24, Issue 6 December 2009, pages 989 - 992.*
77. *Simulation and Optimization Methods in Risk and Reliability Theory*, co-editors: P. Knopov and P.M. Pardalos, Nova Science Publishers, (2009).
78. *Optimization and Logistics Challenges in the Enterprise*, co-editors: W. Chaovalitwongse, K.C. Furman, and P.M. Pardalos, Springer, (2009).
79. *Advances in Modeling Agricultural Systems*, co-editors: Papajorgji, Petraq J.; Pardalos, Panos M. , Springer, (2009).
80. *Optimization in the Energy Industry*, co-editors: J. Kallrath, P.M. Pardalos, S. Rebenack, and M. Scheidt, Springer, (2009).
81. *Optimization and Cooperative Control Strategies*, co-editors: Hirsch, M.J.; Commander, C.; Pardalos, P.M.; Murphey, R., *Lecture Notes in Control and Information Sciences*, Vol. 381, Springer, (2009).
82. *Clustering Challenges in Biological Networks*, co-editors: W. Chaovalitwongse, S. Butenko, and P.M. Pardalos, World Scientific, (2009).
83. *Handbook of Optimization in Medicine*, co-editors: Pardalos, P.M.; Romeijn, H.E. Springer, (2009).

84. *Lectures on Global Optimization*, co-editors: Pardalos, P.M.; Coleman T.F., Fields Institute Communications Series Vol. 55, American Mathematical Society (2009).
85. *Combinatorial Optimization and Applications*, Proceedings of COCOA 2009, co-editors: Du, DingZhu; Hu, Xiaodong; Pardalos, P.M. Lecture Notes in Computer Science Vol. 5573, Springer, (2009).
86. *Handbook of Multicriteria Analysis*, co-editors: Zopounidis, C., Pardalos, P.M., Springer, (2010).
87. *Nonlinear Analysis and Variational Problems*, co-editors: Pardalos, P.M., Rassias, T.M., Khan, A.A., Springer, (2010).
Book review appeared in:
 - *Optimization Methods and Software Volume 26, Issue 2, 2011, p. 341*
88. *Computational Neuroscience*, co-editors: W. Art Chaovalitwongse, Panos Pardalos, Petros Xanthopoulos, Springer, (2010).
89. *Dynamics of Information Systems*, co-editors: Hirsch, M.J., Pardalos, P.M., Murphey, R. Springer, (2010).
90. *Handbook of Power Systems (2 volumes)*, co-editors: Rebennack, S.; Pardalos, P.M.; Pereira, M.V.F.; Iliadis, N.A., Springer, (2010).
91. *Energy, Natural Resources and Environmental Economics*, co-editors: Bjorndal, E.; Bjorndal, M.; Pardalos, P.M.; Ronnqvist, M., Springer, (2010).
92. *Optimization and Optimal Control*, co-editors: Chinchuluun, A.; Pardalos, P.M.; Enkhbat, R.; Tseveendorj, I., Springer, (2010).
93. *Optimal Strategies in Sports Economics and Management*, co-editors: Butenko, Sergiy; Gil-Lafuente, Jaime; Pardalos, Panos M., Springer, (2010).
94. *Experimental Algorithms*, co-editors: Pardalos, Panos M.; Rebennack, Steffen, Lecture Notes in Computer Science, Vol. 6630 Springer, (2011).
95. *Sustainable Environmental Design in Architecture: Impacts on Health*, co-editors: Rassia, Stamatina Th.; Pardalos, Panos M., Springer, (2011).
96. *Handbook of Optimization in Complex Networks: Theory and Applications*, co-editors: My Thai and Panos M. Pardalos, Springer, (2011).
97. *Handbook of Optimization in Complex Networks: Communication and Social Networks*, co-editors: My Thai and Panos M. Pardalos, Springer, (2011).
98. *Data Mining for Biomarker Discovery*, co-editors: Panos M. Pardalos, Petros Xanthopoulos and Michalis Zervakis, Springer, (2012).
99. *Sensors: Theory, Algorithms, and Applications*, co-editors: Vladimir Boginski, Clayton Commander, Panos M. Pardalos and Yinyu Ye, Springer, (2012).
100. *Handbook of Networks in Power Systems (2 volumes)*, co-editors: A. Sorokin, S. Rebennack, P.M. Pardalos, N. Iliadis and M. Pereira, Springer, (2012).

101. *Handbook of CO2 in Power Systems*, co-editors: Q.P. Zheng, S. Rebennack, P.M. Pardalos, N. Iliadis and M. Pereira, Springer, (2012).
102. *Financial Decision Making Using Computational Intelligence*, co-editors: M. Doumpos, C. Zopounidis, and P.M. Pardalos, Springer, (2012).
103. *Dynamics of Information Systems: Mathematical Foundations*, co-editors: A. Sorokin, R. Murphy, M. Thai, and P.M. Pardalos, Springer, (2012).
104. *Essays in Mathematics and Its Applicationsa*, In Honor of Stephen Smale's 80th Birthday co-editors: P.M. Pardalos and T.M. Rassias, Springer, (2012).
Book review appeared in:
 - <http://www.euro-math-soc.eu/node/2936>
105. *Optimization and Data Analysis in Biomedical Informatics*, co-editors: Panos M.Pardalos, Thomas F. Coleman, and Petros Xanthopoulos, Fields Institute Communications, Vol. 63, Springer, (2012).
106. *Nonlinear Analysis: Stability, Approximation, and Inequalities*, co-editors: P.M. Pardalos, P. Georgiev, and H.M. Srivastava, Springer, (2012).
107. *Optimization, Simulation, and Control*, co-editors: A. Chinchuluun, P.M. Pardalos, R.Enkhat, and E.N. Pistikopoulos, Springer, (2013).
108. *Systems Analysis Tools for Better Health Care Delivery*, co-editors: P.M. Pardalos, P.G. Georgiev, P. Papajorgji, and B. Neugaard, Springer, (2013).
109. *Handbook of Combinatorial Optimization*, 5 volumes, 2nd edition co-editors: P.M. Pardalos, D.-Z. Du and R. Graham, Springer, (2013).
110. *Dynamics of Information Systems: Algorithmic Approaches* co-editors: A. Sorokin and P.M. Pardalos, Springer, (2013).
111. *Cities for Smart Environmental and Energy Futures* co-editors: S.T. Rassia and P.M. Pardalos, Springer, (2013).
112. *Optimization and Security Challenges in Smart Power Grids* co-editors: V. Pappu, M. Carvalho, and P.M. Pardalos, Springer, (2013).
113. *Learning and Intelligent Optimization - 7th International Conference, LION 7, Catania, Italy, January 7-11, 2013* co-editors: Giuseppe Nicosia, Panos M. Pardalos, itt Lecture Notes in Computer Science 7997, Springer 2013, ISBN 978-3-642-44972-7.
114. *Constructive Nonsmooth Analysis and Related Topics* co-editors: V. Demyanov, P.M. Pardalos, and M. Batsyn, Springer, (2014).
115. *Handbook of Wind Power Systems* co-editors: Panos M. Pardalos, Steffen Rebennack, Mario V. F. Pereira, Niko A. Iliadis, and Vijay Pappu, Springer, (2014).
116. *Clusters, Orders, and Trees: Methods and Applications* co-editors: Aleskerov, Fuad, Goldengorin, Boris I., Pardalos, Panos M., Springer, (2014).
117. *Mathematics Without Boundaries: Surveys in Interdisciplinary Research* co-editors: Pardalos, Panos M., Rassias, Themistocles M., Springer, (2014).

118. *Mathematics Without Boundaries: Surveys in Pure Mathematics* co-editors: Pardalos, Panos M., Rassias, Themistocles M., Springer, (2014).
119. *Social Networks and the Economics of Sports* co-editors: Pardalos, Panos M., Zama-raev, Victor, Springer, (2014).
120. *Network Models in Economics and Finance* co-editors: Kalyagin, Valery A., Pardalos, Panos, Rassias, Themistocles M., Springer, (2014).
121. *Models, Algorithms and Technologies for Networks Analysis: From the Third International Conference on Network Analysis* co-editors: Batsyn, Mikhail V., Kalyagin, Valery A., Pardalos, Panos M., Springer, (2014).
122. *Learning and Intelligent Optimization - 8th International Conference, LION 8, Gainesville, Florida, February 16-21, 2013* co-editors: Panos M. Pardalos, Mauricio G.C. Resende, Chrysafis Vogiatzis, and Jose L. Walteros. *itt Lecture Notes in Computer Science 8426*, Springer 2014, ISBN 978-3-319-09583-7.
123. *Dynamics of Information Systems: Computational and Mathematical Challenges*, co-editors: C. Vogiatzis, J. L. Walteros and P. M. Pardalos, Springer, (2014).
124. *Future City Architecture for Optimal Living*, co-editors: Rassia, Stamatina Th.; Pardalos, Panos M., Springer, (2015).
125. *Handbook of Bioenergy: Bioenergy Supply Chain - Models and Applications*, co-editors: Eksioğlu, Sandra D., Rebennack, Steffen, Pardalos, Panos Springer, (2015).
126. *Machine Learning, Optimization, and Big Data*, co-editors: Pardalos, P., Pavone, M., Farinella, G.M., Cutello, V., *Lecture Notes in Computer Science Vol. 9432*, Springer, (2015).
127. *Advances in Stochastic and Deterministic Global Optimization*, co-editors: Pardalos, Panos M., Zhigljansky, Anatoly, Žilinskas, Julius. Springer, (2016).
128. *Contributions in Mathematics and Engineering - In Honor of Constantin Caratheodory*, co-editors: Pardalos, P.M., Rassias, T.M. Springer, (2016).
129. *Models, Algorithms and Technologies for Network Analysis: NET 2014, Nizhny Novgorod, Russia, May 2014 (Springer Proceedings in Mathematics & Statistics)* co-editors: Kalyagin, Valery A., Koldanov, Petr A., Pardalos, Panos M. 1st ed. 2016 Edition.
130. *Essays in Mathematics and its Applications: In Honor of Vladimir Arnold*, co-editors: Rassias, Themistocles M., Pardalos, Panos M. 1st ed. 2016 Edition.
131. *Information Retrieval 9th Russian Summer School, RuSSIR 2015, Saint Petersburg, Russia, August 24-28, 2015, Revised Selected Papers* co-editors: Braslavski, P., Markov, I., Pardalos, P., Volkovich, Y., Ignatov, D.I., Koltsov, S., Koltsova, O., *Communications in Computer and Information Science*, Springer, (2016).
132. *Discrete Optimization and Operations Research - 9th International Conference, DOOR 2016, Vladivostok, Russia, September 19-23, 2016, Proceedings*, co-editors: Kochetov, Y., Khachay, M., Beresnev, V., Nurminski, E., Pardalos, P., *Lecture Notes in Computer Science Vol. 9869* (2016).

133. *Dynamics of Disasters - Key Concepts, Models, Algorithms, and Insights*, co-editors: Ilias S. Kotsireas, Anna Nagurney, Panos M. Pardalos, Springer, (2016).
134. *Machine Learning, Optimization, and Big Data - Second International Workshop (MOD 2016)*, Volterra, Italy, August 26-29, 2016, co-editors: Panos M. Pardalos, Piero Conca, Giovanni Giuffrida, and Giuseppe Nicosia, *Lecture Notes in Computer Science 10122*, Springer, (2017), ISBN ISSN 0302-9743.
135. *Spatial Interaction Models, Facility Location Using Game Theory*, co-editors: Lina Mallozzi, Egidio D'Amato, and Panos M. Pardalos, Springer (2017).
136. *Models, Algorithms and Technologies for Network Analysis (NET 2016)*, co-editors: Kalyagin, V.A., Nikolaev, A.I., Pardalos, P.M., Prokopyev, O., Springer (2017).
137. *Optimization Methods and Applications. In Honor of Ivan V. Sergienko's 80th Birthday*, co-editors: Butenko, Sergiy, Pardalos, Panos M., Shylo, Volodymyr, Springer Optimization and Its Applications (2017).
138. *Sustainable Logistics and Transportation - Optimization Models and Algorithms*, co-editors: Cinar, Didem, Gakis, Konstantinos, Pardalos, Panos M, Springer Optimization and Its Applications (2017).
139. *City Networks - Collaboration and Planning for Health and Sustainability*, Editors: Karakitsiou, A., Migdalas, A., Rassia, S., Pardalos, P.M., Springer Optimization and Its Applications (2017).
140. *Smart City Networks - Through the Internet of Things*, Editors: Rassia, Stamatina Th., Pardalos, Panos M., Springer Optimization and Its Applications, volume 125 (2017).
141. *Sustainable Logistics and Transportation - Optimization Models and Algorithms*, Editors: Cinar, Didem, Gakis, Konstantinos, Pardalos, Panos M., Springer Optimization and Its Applications, volume 129 (2017).
142. *Analysis of Images, Social Networks and Texts - 6th International Conference, AIST 2017, Moscow, Russia, July 27-29, 2017, Revised Selected Papers*. Editors: Wil M. P. van der Aalst, Dmitry I. Ignatov, Michael Khachay, Sergei O. Kuznetsov, Victor S. Lempitsky, Irina A. Lomazova, Natalia V. Loukachevitch, Amedeo Napoli, Alexander Panchenko, Panos M. Pardalos, Andrey V. Savchenko, Stanley Wasserman, *Lecture Notes in Computer Science, Vol. 10716*, Springer 2018, ISBN 978-3-319-73012
143. *Machine Learning, Optimization, and Big Data - Third International Conference, MOD 2017, Volterra, Italy, September 14-17, 2017, Revised Selected Papers*. Editors: Giuseppe Nicosia, Panos M. Pardalos, Giovanni Giuffrida, Renato Umeton, *Lecture Notes in Computer Science, Vol. 10710*, Springer 2018, ISBN 978-3-319-72925-1

144. *Sustainable Interdependent Networks*, co-editors: Amini, M.H., Boroojeni, K.G., Iyengar, S.S., Pardalos, P.M., Blaabjerg, F., Madni, A.M., Springer, (2018).
<http://www.springer.com/us/book/9783319744117>
145. *Handbook of Heuristics*, co-editors: Rafeel Martí, Pardalos Panos, Mauricio G.C. Resende, Springer (2018).
146. *Optimization Problems and Their Applications - 7th International Conference, OPTA 2018, Omsk, Russia, July 8-14, 2018, Revised Selected Papers*. Editors: Eremeev, A., Khachay, M., Kochetov, Y., Pardalos, P., *Communications in Computer and Information Science*, Springer (2018), ISBN 978-3-319-93799-1
147. *Dynamics of Disasters - Algorithmic Approaches and Applications*. Editors: Kotsireas, Ilias S., Nagurney, Anna, Pardalos, Panos M., Springer *Optimization and Its Applications*, Springer (2018).
148. *Computational Aspects and Applications in Large-Scale Networks*. Editors: Valery A. Kalyagin, Panos M. Pardalos, Oleg Prokopyev, Irina Utkina, *Springer Proceedings in Mathematics & Statistics (PROMS Vol. 247)*, 2018.
149. *Sustainable Interdependent Networks II - From Smart Power Grids to Intelligent Transportation Networks* Editors: Amini, M.H., Boroojeni, K.G., Iyengar, S.S., Pardalos, P.M., Blaabjerg, F., Madni, A.M., Springer (2019)
150. *Learning and Intelligent Optimization - 12th International Conference, LION 12, Kalamata, Greece, June 10-15, 2018* Editors: Roberto Battiti, Mauro Brunato, Ilias Kotsireas, Panos M. Pardalos, *Lecture Notes in Computer Science 11353*, Springer 2019, ISBN 978-3-030-05347-5
151. *Analysis of Images, Social Networks and Texts - 7th International Conference, AIST 2018, Moscow, Russia, July 5-7, 2018, Revised Selected Papers*. Editors: van der Aalst, W.M.P., Batagelj, V., Glavaš, G., Ignatov, D.I., Khachay, M., Kuznetsov, S.O., Koltsova, O., Lomazova, I.A., Loukachevitch, N., Napoli, A., Panchenko, A., Pardalos, P.M., Pelillo, M., Savchenko, A.V., *Lecture Notes in Computer Science, Vol. 11179*, Springer 2018, ISBN 978-3-030-11026-0
152. *Approximation and Optimization -- Algorithms, Complexity and Applications* Editors: Demetriou, Ioannis, Pardalos, Panos M. Springer *Optimization and Its Applications*, Vol. 145, ISBN 978-3-030-12766-4
153. *Mathematical Optimization Theory and Operations Research - 18th International Conference, MOTOR 2019, Ekaterinburg, Russia, July 8-12, 2019, Proceedings*. Editors: Michael Khachay, Yury Kochetov, Panos Pardalos *Lecture Notes in Computer Science, Vol. 11548*, Springer 2019 DOI: 10.1007/978-3-030-22629-9
154. *Nonlinear Combinatorial Optimization* Editors: Dr. Ding-Zhu Du, Prof. Panos M. Pardalos, Zhao Zhang Springer *Optimization and Its Applications*, ISBN 978-3-030-16193-4 (2019)
155. *Computational Intelligence and Optimization Methods for Control Engineering* Editors: Blondin, Maude Josée, Pardalos, Panos M., Sanchis, Javier S. (Eds.) Springer *Optimization and Its Applications*, ISBN 978-3-030-25445-2 (2019)

156. *Mathematical Analysis and Applications* Editors: Rassias, Themistocles M., Pardalos, Panos M. (Eds.) Springer Optimization and Its Applications, ISBN: 978-3-030-31338-8 (2019)
157. *Optimization in Large Scale Problems -- Industry 4.0 and Society 5.0 Applications* Editors: Fathi, Mahdi, Khakifrooz, Marzieh, Pardalos, Panos M. (Eds.) Springer Optimization and Its Applications, ISBN: 978-3-030-28564-7 (2019)
158. *Handbook of Optimization in Electric Power Distribution Systems*, Editors: Resener, M., Rebennack, S., Pardalos, P.M., Haffner, S., Springer (2020). <https://www.springer.com/us/book/9783030313388>
159. *Analysis of Experimental Algorithms - Special Event, SEA² 2019, Kalamata, Greece, June 24-29, 2019, Revised Selected Papers*. Editors: Ilias Kotsireas, Panos Pardalos, Konstantinos E. Parsopoulos, Dimitris Souravlias, Arsenis Tsokas, *Lecture Notes in Computer Science*, Vol. 11544 and *Theoretical Computer Science and General Issues series*, Volume 11544, Springer 2019 DOI: <https://doi.org/10.1007/978-3-030-34029-2>
160. *Machine Learning, Optimization, and Data Science - 4th International Conference, LOD 2018, Volterra, Italy, September 13-16, 2018, Revised Selected Papers* Giuseppe Nicosia, Panos M. Pardalos, Giovanni Giuffrida, Renato Umeton, Vincenzo Sciacca (Eds) *Lecture Notes in Computer Science*, Vol. 11331, Springer (2019), ISBN 978-3-030-13708-3
161. *Machine Learning, Optimization, and Data Science - 5th International Conference, LOD 2019, Siena, Italy, September 10-13, 2019, Proceedings* Editors: Giuseppe Nicosia, Panos M. Pardalos, Renato Umeton, Giovanni Giuffrida, Vincenzo Sciacca (Eds), *Lecture Notes in Computer Science*, Vol. 11943, Springer (2019), ISBN 978-3-030-37598-0
162. *Learning and Intelligent Optimization - 13th International Conference, LION 13, Chania, Crete, Greece, May 27-31, 2019, Revised Selected Papers*. Editors: Nikolaos F. Matsatsinis, Yannis Marinakis, Panos M. Pardalos, *Lecture Notes in Computer Science*, Vol. 11968, Springer 2020, ISBN 978-3-030-38628-3
163. *Theory of Information and its Value*. Editors: Roman V. Belavkin, Panos M. Pardalos, Jose C. Principe, Springer (2020), ISBN 978-3-030-22832-3
164. *Mathematical Research for Blockchain Economy - 1st International Conference MARBLE 2019, Santorini, Greece* Editors: Panos Pardalos, Ilias Kotsireas, Yike Guo, William Knottenbelt, Springer Proceedings in Business and Economics (2019), ISBN 978-3-030-37109-8
165. *Open Problems in Optimization and Data Analysis* Editors: Pardalos, Panos M., Migdalas, Athanasios Springer Optimization and Its Applications (2018) ISBN 978-3-319-99142-9
166. *Mathematical Research for Blockchain Economy - 2nd International Conference MARBLE 2019, Vilamoura, Portugal* Editors: Panos Pardalos, Ilias S. Kotsireas, Yike Guo, William Knottenbelt, Springer Proceedings in Business and Economics (2020), ISBN 978-3-030-53355-7
167. *Nonlinear Analysis and Global Optimization* Editors: Rassias, Themistocles M., Pardalos, Panos M. (Eds.), Springer Optimization and Its Applications, Vol. 167 (2020), ISBN 978-3-030-61731-8

168. *Machine Learning, Optimization, and Data Science - 6th International Conference, LOD 2020, Siena, Italy, July 19-23, 2020, Revised Selected Papers, Part I* Editors: Giuseppe Nicosia, Varun Kumar Ojha, Emanuele La Malfa, Giorgio Jansen, Vincenzo Sciacca, Panos M. Pardalos, Giovanni Giuffrida, Renato Umeton (Eds), *Lecture Notes in Computer Science*, Vol. 12565, Springer (2020), ISBN 978-3-030-64582-3
169. *Machine Learning, Optimization, and Data Science - 6th International Conference, LOD 2020, Siena, Italy, July 19-23, 2020, Revised Selected Papers, Part I* Editors: Giuseppe Nicosia, Varun Kumar Ojha, Emanuele La Malfa, Giorgio Jansen, Vincenzo Sciacca, Panos M. Pardalos, Giovanni Giuffrida, Renato Umeton (Eds), *Lecture Notes in Computer Science*, Vol. 12566, Springer (2020), ISBN 978-3-030-64579-3
170. *Recent Trends in Analysis of Images, Social Networks and Texts - 9th International Conference, AIST 2020, Skolkovo, Moscow, Russia, October 15-16, 2020 Revised Supplementary Proceedings* Editors: Wil M. P. van der Aalst, Vladimir Batagelj, Alexey Buzmakov, Dmitry I. Ignatov, Anna Kalenkova, Michael Khachay, Olessia Koltsova, Andrey Kutuzov, Sergei O. Kuznetsov, Irina A. Lomazova, Natalia Loukachevitch, Ilya Makarov, Amedeo Napoli, Alexander Panchenko, Panos M. Pardalos, Marcello Pelillo, Andrey V. Savchenko, Elena Tutubalina, *Communications in Computer and Information Science*, Vol. 1357, Springer (2021) ISBN 978-3-030-71213-6, doi.org/10.1007/978-3-030-71214-3
171. *Information and Communication Technologies for Agriculture-Theme I: Sensors*, Editors: Bochtis, D.D., Lampridi, M., Petropoulos, G., Ampatzidis, Y., Pardalos, P.M. Springer *Optimization and its Applications*, Vol. 182 (2021), ISBN 978-3-030-84143-0
172. *Information and Communication Technologies for Agriculture-Theme II: Data*, Editors: Bochtis, D.D., Moshou, D.E., Vasileiadis, G., Balafoutis, A., Pardalos, P.M. Springer *Optimization and its Applications*, Vol. 183 (2021), ISBN 978-3-030-84147-8
173. *Information and Communication Technologies for Agriculture-Theme III: Decision*, Editors: Bochtis, D.D., Sørensen, C., Fountas, S., Moysiadis, V., Pardalos, P.M. Springer *Optimization and its Applications*, Vol. 184 (2021), ISBN 978-3-030-84151-5
174. *Information and Communication Technologies for Agriculture-Theme IV: Actions*, Editors: Bochtis, D.D., Pearson, S., Lampridi, M., Marinoudi, V., Pardalos, P.M. Springer *Optimization and its Applications*, Vol. 185 (2021), ISBN 978-3-030-84155-3
175. *Learning and Intelligent Optimization - 15th International Conference, LION 15, Athens, Greece, June 20-25, 2021, Revised Selected Papers* Editors: Dimitris E. Simos, Panos M. Pardalos, Ilias S. Kotsireas (Eds), *Lecture Notes in Computer Science*, Vol. 12931, Springer (2021), ISBN 978-3-030-92120-0

RESEARCH PAPERS IN REFEREED CONFERENCE PROCEEDINGS:

1. “*Aspects of Parallel Computation in Global Optimization*,” Proceedings of the 24th Annual Allerton Conference on Communication, Control and Computing (1986), pp. 812-821.
2. “*Objective Function Approximation in Nonconvex Programming*,” Proceedings of the 18th Modelling and Simulation Conference (1987), pp. 1605-1610.
3. “*Characterization of Global Minima in Nonconvex Quadratic Programming*” (with I. Roussos & Harris Sahinoglou), Proceedings of the 19th Annual Pittsburgh Conference on Modeling and Simulation Vol. 19 (1988), pp. 1823-1828.

4. "A Parallel Algorithm for the Quadratic Assignment Problem" (with James V. Crouse), *Proceedings of the Supercomputing 1989 Conference*, ACM Press, pp. 351-360.
5. "Parallel Branch and Bound Algorithms for Unconstrained Quadratic Zero-one Programming" (with Gregory P. Rodgers), In *Impact of Recent Computer Advances on Operations Research* (Eds: R. Sharda et al.), North-Holland (1989), pp. 131-143.
6. "On the Linear Complementarity Problem" (with I. Roussos), *Proceedings of the 20th Annual Pittsburgh Conference on Modelling and Simulation Vol 20* (1989), pp. 249-253.
7. "Interior point algorithms for quadratic programming problems" (with Y. Ye and C.-G. Han), *Proc. of the Conf. on Optimization Methods and their Applications* (in Russian), Nauka, USSR (1990), pp. 194-213.
8. "A polynomial time dual algorithm for the euclidean multifacility location problem" (with J.B. Rosen and G.L. Xue), *Proceedings of the 2nd Conf. on Integer Programming and Combinatorial Optimization* (Editors: E. Balas, G. Cornuejols, R. Kannan), Carnegie Mellon University, (1992), pp. 227-236. [Also appeared in the *Journal Operations Research Letters* 18 (1996), pp. 201-204.]
9. "Hamiltonian Cycle Problem, Controlled Markov Chains and Quadratic Programming" (with J. Filar and M. Oberije), In *The Proceedings of The 12th National Conference of The Australian Society For Operations Research* (Adelaide July 7-9), 1993, pp. 263-281.
10. "A Parallel GRASP Implementation for the Quadratic Assignment Problem" (with L. Pitsoulis and M.G.C. Resende), "Parallel Algorithms for Irregularly Structured Problems," (Editors: A. Ferreira and J. Rolim), Kluwer Academic Publishers (1995), pp. 111-130.
11. "An Exact Branch and Bound Algorithm for the Steiner Problem in Graphs" (with B. Khoury), In *The Proceedings of COCOON'95 (Xi'an, China, August 24-26, 1995)*, Springer-Verlag, *Lecture Notes in Computer Science Vol. 959* (1995) (D.-Z. Du & M. Li, Editors), pp. 582-590.
12. "On merging multiple versions of knowledge bases" (with S. Lanka, E. Mays, J.L. Wolfe and S. Purushthoman), In *The Proceedings of ISORA 95 (Beijing China, August 19-22, 1995)* (D.-Z. Du, X.-S. Zhang and K. Chang, Editors), World Publishing Corporation, pp. 184-193.
13. "Parallel Search for Combinatorial Optimization: Genetic Algorithms, Simulated Annealing, Tabu Search and GRASP", (with L. Pitsoulis, T. Mavridou and M.G.C. Resende), In *Parallel Algorithms for Irregularly Structured Problems*, *Proceedings of the Second International Workshop, IRREGULAR'95 (Lyon, France, Sept. 1995)*, Springer-Verlag, *Lecture Notes in Computer Science Vol. 980* (1995) (Editors: A. Ferreira and J. Rolim), pp. 317-331.
14. "Nonlinear bilevel problems with convex second level problem - Heuristics and descent methods" (with A. Migdalas), In *Operations Research and Its Applications* (Edit. D.-Z Du, X.-S. Zhang and K. Cheng), World Publishing Corporation (1995), pp. 194-204.
15. "A Parallel GRASP for MAX-SAT Problems, (with L. Pitsoulis and M.G.C. Resende), Springer-Verlag, *Lecture Notes in Computer Science* 1184 (1996) pp. 575-585.
16. "Global Minimax Approaches for Solving Discrete Problems", (with DingZhu Du), In "Recent Advances in Optimization," In (Eds. P. Gritzmann, R. Horst, E. Sachs, R. Tichatschke), *Lecture Notes in Economics and Mathematical Systems*, vol. 452, Springer-Verlag (1997), pp. 34-48.

17. “*On the use of multicriteria methods for the evaluation of insurance companies in GREECE*”, (with M. Michalopoulos and K. Zopounidis) In “*New Operational Approaches for Financial Modelling*” (C. Zopounidis, Editor), Physica-Verlag (1997), pp. 271-283.
18. “*Optimization Techniques for Portfolio Selection*”, In “*New Operational Approaches for Financial Modelling*” (C. Zopounidis, Editor), Physica-Verlag (1997), pp. 19-33.
19. “*An Algorithm for the Multi-access Channel Problem*”, (with Peng-Jun Wan and DingZhu Du), In “*Minimax Theory and Applications*” (Edit. Biagio Ricceri and Stephen Simons), Kluwer Academic Publishers (1998), pp. 261-270.
20. “*On Very Large Maximum Clique Problems*” (with J. Abello and M.G.C. Resende), In Proceedings of “*Algorithms and Experiments*” (ALEX98), (Editors: R. Battiti and A.A. Bertossi), Universita di Trento (Italy), pp. 175-183.
21. “*Optimization in the space of distribution functions and applications in the Bayes Analysis*”, (with A. Golodnikov, P. Knopov and S. Uryasev). In “*Probabilistic Constrained Optimization*” (S. Uryasev, Editor), Kluwer Academic Publishers (2000), pp. 102-131.
22. “*Optimal estimation of signal parameters using bilinear observations*” (with P. S. Knopov, S. Uryasev, and A. Yatsenko), In *Optimization and Related Topics* (A. Rubinov, Ed.), Kluwer Academic Publishers (2000), pp. 103-117.
23. “*Hamiltonian Cycle Problem via Markov Chains and Min-type Approaches*” (with M. Abdramonov, J. Filar, and A. Rubinov), In *Approximation and Complexity in Numerical Optimization* (P.M. Pardalos, Ed.), Kluwer Academic Publishers (2000), pp. 31-47.
24. “*Piecewise Linear Network Flow Problems*” (with D. Kim), In *Combinatorial and Global Optimization* (P.M. Pardalos, A. Migdalas, and R. Burkard, Ed.), World Scientific (2001), pp. 145-160.
25. “*Reactive GRASP with path relinking for channel assignment in mobile phone networks*” (with F.C. Gomez, C. Oliveira, and M.G.C. Resende), In *Proceedings of 5th International Workshop on Discrete Algorithms and Methods for Mobile Computing and Communications, Rome July 2001* ACM Press (2001), pp. 60-67.
26. “*Can knowledge of cortical site dynamics in a preceding seizure be used to improve prediction of the next seizure?* (with L. D. Iasemidis, J. C. Sackellares, W. Chaovallitwongse, P. Carney, and D-S Shiau), *Annals of Neurology* 52 (3), pp. S65-S66 (2002).
27. “*On the prediction of seizures, hysteresis and resetting of the epileptic brain: insights from models of coupled chaotic oscillators* (with L. D. Iasemidis, A. Prasad, J. C. Sackellares, and D-S. Shiau), In “*Order and Chaos*”, T. Bountis and, S. Pneumatikos, Eds., vol. 8, Publishing House of K. Sfakianakis, Thessaloniki, Greece (Proc. of 14th Summer School on Nonlinear Dynamics: Chaos and Complexity) 2003, pp. 283-305.
28. “*Heuristic Approaches to Production-Inventory-Distribution Problems in Supply Chain* (with B. Eksioglu and A. Migdalas), In “*Optimization and Industry: New Frontiers*” (P. Pardalos and V. Korotkikh, Eds), Kluwer Academic Publishers (2003), pp. 15-37.
29. “*A new algorithm for the minimum connected dominant set problem on Ad Hoc wireless networks*”, (with S. Butenko and C. Oliveira), Proceedings of Int. Conf. on Computer, Communication and Control Technologies (CCCT’03), International Institute of Informatics and

- Systematics (IIS) Vol. V (H.-W. Chu, J. Ferrer, S, Lim G. Kharatishvili, and C. Oliveira, Eds), pp. 39-44.
30. “A randomized algorithm for minimizing user disturbance due to changes in cellular technology”, (with C. Oliveira and D. Paolini), Proceedings of Int. Conf. on Computer, Communication and Control Technologies (CCCT’03), International Institute of Informatics and Systematics (IIS) Vol. V (H.-W. Chu, J. Ferrer, S, Lim G. Kharatishvili, and C. Oliveira, Eds), pp. 45-50.
 31. “Geometric Models, Fiber Bundles and Biomedical Applications,” (with V. Yatsenko, C. Sackellares, P. Carney, and O. Prokopyev), Proceedings of the Institute of Mathematics of National Academy of Sciences of Ukraine Vol. 3 (2004), pp. 1518-1525.
 32. “GRASP with Path-Relinking for the Quadratic Assignment Problem,” (with C. Oliveira and M.G.C. Resende), In “Experimental and Efficient Algorithms”, (C.S. Ribeiro, S.L. Martins, Eds.), Springer-Verlag Lecture Notes in Computer Science, Proceedings of the 3d International Workshop, WEA 2004, Angra dos Reis, Brazil (May 2004), pp. 356-368.
 33. “A Distributed Optimization Algorithm for Power Control in Wireless Ad Hoc Networks”, (with C. Oliveira), In Proc. 18th International Parallel and Distributed Processing Symposium (IPDPS’04), volume 7 (6th Workshop on Advances in Parallel and Distributed Computational Models (WAPDCM’04), April 26th 2004, Santa Fe, New Mexico) IEEE Computer Society, pp. 177-185, 2004.
 34. “Recent advances and trends in global optimization: Deterministic and stochastic methods”, (with F. Schoen), In Proce. of the Sixth International Conf. on “Foundations of Computer-Aided Process Design” (FOCAPD 2004) (Eds: C.A. Floudas & R. Agrawal, Princeton July 2004), Omni Press, pp. 119 - 131.
 35. “GRASP with path-relinking for the weighted maximum satisfiability problem,” (with P. Festa, L.S. Pitsoulis and M.G.C. Resende), In WEA 2005 (Ed: S.E. Nikolettseas), Lecture Notes in Computer Science, 3503, pp. 367–379, Springer-Verlag, Berlin Heidelberg, 2005.
 36. “Quantum optimization and maximum clique problems” (with V.A. Yatsenko, B.H. Chiarini), Proceedings of SPIE – Volume 5436, Quantum Information and Computation II, (Eric Donkor, Andrew R. Pirich, Howard E. Brandt, Editors), August 2004, pp. 373-375
 37. “New adaptive methods for sensing of chemical components and biological agents” (with Vitaliy A. Yatsenko, Bruno H. Chiarini), Proceedings of SPIE – Volume 5232, Remote Sensing for Agriculture, Ecosystems, and Hydrology V, (Manfred Owe, Guido D’Urso, Jose F. Moreno, Alfonso Calera, Editors), February 2004, pp. 719-728
 38. “Adaptive sensor for chemical analysis” (with Vitaliy A. Yatsenko, Svetlana M. Kochubey, and Lezhou Zhan), Proceedings of SPIE – Volume 5085, Chemical and Biological Sensing IV, (Patrick J. Gardner, Editor), August 2003, pp. 1-10.
 39. “Estimation of chlorophyll concentration in vegetation using global optimization approach” (with Vitaliy A. Yatsenko, Svetlana M. Kochubey, Lezhou Zhan), Proceedings of SPIE – Volume 5072, Technologies, Systems, and Architectures for Transnational Defense II, (Mark K. Hamilton, Vince C. Boles, Editors), August 2003, pp. 50-59.
 40. “A Comparative Study of Linear and Nonlinear Feature Extraction Methods” (with Cheong Hee Park and Haesun Park), ICDM 2004, pp. 495-498.

41. “A GRASP heuristic for the cooperative communication problem in ad hoc networks” (with C. Commander, C.A.S. Oliveira, and Mauricio G. C. Resende), In Proceedings of VI Metaheuristics International Conference, pp. 225–230, Vienna, 2005.
42. “Parallel Algorithm for the Closest String Problem” (with Fernando C. Gomes, Claudio N. Meneses, and Gerardo Valdisio R. Viana) Proceedings of the Fourth Brazilian Symposium on Mathematical and Computational Biology / First International Symposium on Mathematical and Computational Biology, Volume II (2005), (Edited by R. Mondaini), e-Papers Publishers (Rio de Janeiro, Brazil), pp. 326-332.
43. “Network flow algorithm for the longest common subsequence problem” (with Carlos Oliveira) Proceedings of the Fourth Brazilian Symposium on Mathematical and Computational Biology / First International Symposium on Mathematical and Computational Biology, Volume II (2005), (Edited by R. Mondaini), e-Papers Publishers (Rio de Janeiro, Brazil), pp. 300-313.
44. “Reliable Virtual Backbone Scheme in Mobile Ad-Hoc Networks” (with Manki Min, Feng Wang, and Ding-Zhu Du) Proceedings of the 1st IEEE International Conference on Mobile Ad hoc and Sensor Systems, 25-27 Oct. 2004, pp. 60-69.
45. “On Biclustering with Features Selection for Microarray Data Set” (with S. Busygin and O. Prokopyev), In (BIOMAT 2005) Proceedings of the International Symposium on Mathematical and Computational Biology (Edited by R. Mondaini & R. Dilao), World Scientific (2006), pp. 367-377.
46. “Effects of acute hippocampal stimulation on EEG dynamics” (with Nair, S.P., Sackellares, J.C., Shiau, D-S., Norman W.M., Principe, J.C., and and Carney, P.R.), Proceedings of IEEE Engineering in Medicine and Biology Conference, New York, NY, 2006, pp. 4382-4386, 2006.
47. “Characteristics of the Distribution of Hamming Distance Values Between Multidimensional Assignment Problem Solutions” (With P. Krokhmal, and A.R. Kammerdiner), In C. Edwards, E. Colet, L. Fridman, editors, “Advances in Variable Structure And Sliding Mode Control,” Lecture Notes in Control and Information Sciences Vol 334, pp. 339-352, Springer, 2006.
48. “Sensor Registration in a Sensor Network by Continuous GRASP,” (with M. J. Hirsch, and M. G. C. Resende), IEEE Proc. of the Military Communications Conference (MILCOM 2006), October 2006 (2006 Raytheon Net-Centric Systems Paper of the Year).
49. “Detecting categorical discrimination in a visuomotor task using selective support vector machines,” (with O. Seref, C. Cifarelli, O. E. Kundakcioglu, and M. Ding), Proceedings of BIO-COMP '07, H. R. Arabnia, M. Q. Yang, J. Y. Yang (Eds), pp. 580-590 (2007).
50. “Quantum computing in control and optimization” (with V.A. Yatsenko, N. Boyko, and P. Xanthopoulos), Proceedings of SPIE – Volume 6573, Quantum Information and Computation V, (Eric Donkor, Andrew R. Pirich, Howard E. Brandt, Editors), 2007.
51. “Analysis of Greedy Approximations with Nonsubmodular Potential Functions”, (with Ding-Zhu Du, Ronald L. Graham, Peng-Jun Wan, Weili Wu, and Wenbo Zhao), ((SODA) ACM-SIAM Symposium on Discrete Algorithms) 2008, pp. 167-175.
52. “Antiepileptic Drug Intervention Decouples Electroencephalogram (EEG) Signals: A case Study in Unverricht-Lundborg Disease,” Proceedings of the 30th International IEEE EMBS Conference, (Vancouver CA, Aug 10-24, 2008), pp. 2108-2111.

53. “*A branch and bound algorithm for multiple instance classification,*” (with O. E. Kundakcioglu) Proceedings of the 2008 International Conference on Machine Learning; Models, Technologies and Applications (MLMTA), H. R. Arabnia and Y. Mun, (Eds), 865-869, 2008.
54. “*A robust spike and wave algorithm for detecting seizures in a genetic absence seizure model,*” (with P. Xanthopoulos, C.-C. Liu, J. Zhang, S. Nair, K. Kelly, and B. M. Uthman) Conf. Proc. IEEE Eng. Med. Biol. Soc., 2009:2184 - 2187, 2009.
55. “*Supervised classification methods for mining cell differences as depicted by Raman spectroscopy,*” (with P. Xanthopoulos, R. De Asmundis, M.R. Guarracino, and G. Pyrgiotakis) R. Rizzo and P.J.G. Lisboa (Eds.), Lecture Notes in Bioinformatics (LNBI 6685, Springer, pp. 112-122, 2011.
56. “*Statistical Uncertainty of Market Network Structures,*” (Petr Koldanov, Panos M. Pardalos, and Victor Zamaraev), DATA ANALYTICS 2014 : The Third International Conference on Data Analytics, 2014 (ISBN: 978-1-61208-358-2 91), pp. 91 - 94.
57. “*Detecting silica-coated gold nanostars within Surface-Enhanced Resonance Raman spectroscopy mapping via semi-supervised framework combining feature selection and classification,*” (Jiaxing Pi, Michael B. Fenn, Panos M. Pardalos). Proceedings of 32nd Southern Biomedical Engineering Conference, pp. 89-90 (DOI 10.1109/SBEC.2016.27)

UNPUBLISHED PAPERS:

1. “*A Parallel Algorithm for the Weighted Maximum Clique Problem,*” with R. Carraghan, Technical report CS-90-40, Department of Computer Science, The Pennsylvania State University, 1990.
2. “*Parallel Search Algorithms for Quadratic Zero-One Programming,*” with S. Jha, Preprint, Department of Computer Science, The Pennsylvania State University, 1988.
3. “*Implementation of a Parallel Algorithm to Find the Connected Components of a Graph,*” with Chandra S. Rentala, Preprint, Department of Computer Science, The Pennsylvania State University, 1988.

SPECIAL ISSUES OF JOURNALS EDITED:

- Special Issue on: ‘*Biomedicine, Machine Learning and Big Data*’, International Journal of Bioinformatics Research and Applications, Vol. 17, No. 4, Guest Editors: George Michailidis, Panos M. Pardalos and Arsenios Tsokas
- Special Issue ‘*Artificial Intelligence in Agriculture*’, AI, MDPI, Guest Editors: Yiannis Ampatzidis, Spyros Fountas, Wonsuk (Daniel) Lee, Panos M. Pardalos (forthcoming)
- Annals of Operations Research, Special Issue on Computational Biomedicine Volume 276 Number 1-2 (May 2019) Guest Editors: Anton Kocheturov, Panos Pardalos, and George Michailidis
- Optimization Methods & Software, Special issue: The 5th International Conference on Network Analysis, May 18-20, 2015, Nizhny Novgorod, Russia), Vol. 32, No. 2 (2017), guest editors: P.M. Pardalos and V. Kalyagin.

- *Journal of Global Optimization*, Special issue on WCGO-2015, Volume 67, Issues 1-2 (2017), guest editor: P. M. Pardalos
- *Optimization Letters*, Special issue: Clustering and search techniques in large scale networks, Vol. 11, No. 2 (2017), guest editors: P.M. Pardalos and V. Kalyagin.
- *Annals of Mathematics and Artificial Intelligence, Learning and Intelligent Optimization: Selected Papers from the LION 8 conference*, Volume 76, Issue 1-2, (2016) co-editors: Panos M. Pardalos, Chrysafis Vogiatzis and Jose L Walteros.
- *Optimization Methods & Software* , Special issue: The 3rd International Conference on Optimization Methods and Software (May 13-17, 2012, Chania, Greece), Vol. 29, No 5 (2014), co-editors: O. Burdakov and P.M. Pardalos.
- *Computational Management Science*, Special issue: Learning and Robustness, Vol. 11, No 4 (2014), editor: P.M. Pardalos.
- *Computational Management Science*, Special issue in Honor of Berc Rustem, Vol. 11, No 3 (2014), co-editors: Hans Amman P.M. Pardalos.
- *Int. J. of Bioinformatics Research and Applications*, Special issue on Computational Biomedicine, Vol. 10, No 1 (2014), co-editors: S. Mujahid, D. Korenkevych, and P.M. Pardalos.
- SPECIAL VOLUME IN HONOR OF PROFESSOR STEPHEN SMALE, *Communications in Mathematical Analysis* Vol 10, No 1 &2 (2011), co-editors: P.M. Pardalos and T. M. Rassias.
- *Theoretical Computer Science*, Volume 412 , Number 3, January 2011 (Special Issue of Combinatorial Optimization and Applications - COCOA 2009), co-editors: Ding-Zhu Du, Xiaodong Hu, Panos M. Pardalos.
- *International Journal of Bioinformatics Research and Applications (IJBRA)* 5.2 (2009), (Special Issue BIOMAT 2007 Conference), co-editors: Professor Rubem P. Mondaini and Professor Panos M. Pardalos.
- *Journal of Industrial and Management Optimization* 3.1 (2007), (Special Issue on Supply Chain Optimization), co-editors: Joseph Geunes and Panos M. Pardalos.
- *Journal of Combinatorial Optimization* 10.1 (2005), editor: Panos M. Pardalos.
- *Fuzzy Sets in Economics and Finance, Journal of Computational Economics* 19.3 (2002), co-editors: C. Zopounidis, P. M. Pardalos, and J. Gil-Aluja.
- *Journal of Combinatorial Optimization* 6.3 (2002), co-editors: Panos M. Pardalos and Henry Wolkowicz.
- *Journal of Global Optimization* Volume 22 (4 issues)(2002) co-editors: P. M. Pardalos and N.V. Thoai
- *Journal of Global Optimization* Volume 17 (4 issues)(2000) co-editors: P. M. Pardalos and G. Starvoulakis
- *Journal of Parallel Algorithms and Applications* 15/1-2 (2000), co-editors: Erricos John Kontoghiorghes, Hans-Heinrich Naegeli, and Panos M. Pardalos.

- *Journal of Combinatorial Optimization* 2.1 (1998), co-editors: Panos M. Pardalos and Henry Wolkowicz.
- *Hierarchical and Bilevel Programming*, co-editors: A. Migdalas and Panos M. Pardalos, *Journal of Global Optimization* 8.3 (1996).
- *State of the Art in Global Optimization*, co-editors: C. A. Floudas Panos M. Pardalos, *Journal of Global Optimization* 7.2 & 7.4 (1995).
- *Advances in Computational Chemistry and Protein Folding*, co-editors: Panos M. Pardalos, and Guoliang Xue, *Journal of Global Optimization* 4.2 (1994).
- *Computer Simulations in Molecular and Protein Conformations*, co-editors: Panos M. Pardalos, and Guoliang Xue, *Journal of Global Optimization* 11.1 (1997).
- *Complexity Issues in Numerical Optimization*, co-editors: Panos M. Pardalos, and Steve Vavasis, *Mathematical Programming* Vol. 57, No. 2. Series B, (1992).
- *Proceedings of the Princeton Conference on Global Optimization*, co-editors: C. A. Floudas Panos M. Pardalos, *Journal of Global Optimization* Vol. 2, No. 1 and No. 3 (1992).
- *Computational Aspects of Combinatorial Optimization*, co-editors: Panos M. Pardalos, and M.G.C. Resende. *COAL Bulletin, Mathematical Programming Society*, No. 21 (1992).
- *Annals of Mathematics and Artificial Intelligence*, Vol. 89, Issue 8-9 (September 2021), co-editors: Nikolaos F. Matsatsinis, Magdalene Marinaki, Yannis Marinakis, Panos M. Pardalos

BOOK REVIEWS:

1. J.Guddat, F. Guearra Vasquez and H. Th. Jongen, “Parametric Optimization: Singularities, Pathfollowing and Jumps”, John Wiley & Sons (1990) [Review published in *Journal of Global Optimization* 2 (1992), p. 313].
2. G. Anandalingam and T.L. Friesz (Editors), “Hierarchical Optimization”, *Annals of Operations Research* Vol. 34 (1992), J.C. Baltzer A.G., Basel [Review published in *Journal of Global Optimization* 3 (1993), p. 393-394].
3. S. Vavasis, “Nonlinear Optimization, Complexity Issues”, Oxford Science Publications (1991) [Review published in *Mathematics of Computation* Vol.60, no.201, 1993].
4. R. Horst and H. Tuy, “Global Optimization, Deterministic Approaches”, Springer Verlag, (1990) [Review published in *Mathematical Reviews* 1992, and Review of the second edition published in the *Journal Optimization Methods and Software*].
5. A. Toern and A. Zilinskas, “Global Optimization”, Springer Verlag Lecture Notes in Computer Sciences Vol. 350 (1989) [Review published in *SIAM Review* Vol. 53, No. 3 (1993), pp. 509-510].
6. H. Ratschek and J. Rokne, “New Computer methods for Global Optimization”, Halsted Press (1988) [Review published in *SIAM Review* Vol. 33, No. 4 (1991), pp. 684-686].
7. “Nobel Lectures: Economic Sciences 1969-1980” (edited by Assar Linbeck), World Scientific (1992), & “Nobel Lectures: Economic Sciences 1981-1990” (edited by Karl-Göran Mäler) World Scientific (1992), [Review published in *Journal of Global Optimization* 5 (1994), pp. 201-202]

8. Jorge J. Moré and Stephen J. Wright, "Optimization Software Guide," SIAM, Philadelphia, 1994 [Review published in SIAM Review Vol. 36, No.3 (1994), pp. 518].
9. P.D. Panagiotopoulos, "Hemivariational Inequalities: Applications in Mechanics and Engineering," Springer-Verlag, 1993 [Review published in Optimization Methods and Software, 1995].
10. V.S. Tanaev, V.S. Gordon and Y.M. Shafransky, "Scheduling Theory, Single-Stage Systems", Kluwer Academic Publishers (1994), & V.S. Tanaev, Y.N. Sotskov and V.A. Strusevich, "Scheduling Theory, Multi-Stage Systems", Kluwer Academic Publishers (1994) [Review published in the Journal of Global Optimization, 1995].
11. G. Reinelt, "The Traveling Salesman Problem", Springer-Verlag (1994), .
12. Naniwicz, Z. Panagiotopoulos, P.D.: Mathematical Theory of Hemivariational Inequalities and Applications. New York etc., Marcel Dekker, Inc. 1995, [Review published in the Journal of Global Optimization].
13. Ignacio E. Grossmann (ed.): *Global Optimization in Engineering Design*, Nonconvex Optimization and Its Applications Vol. 9, *Kluwer Academic Publishers*, Dordrecht, 1996,
14. Jonas Mockus, William Eddy, Audris Mockus, Linas Mockus, Gintaras Reklaitis: *Bayesian Heuristic Approach to Discrete and Global Optimization*, Kluwer Academic Publishers, Dordrecht, 1997.
15. M. Sen and P. Stoffa (2005), *Global Optimization Methods in Geophysical Inversion*. Elsevier (1995), 281 pp. [Review published in Journal of Global Optimization Vol. 10, No. 4 (1997), pp. 467.]
16. D. Bertsekas, "Network Optimization: Continuous and Discrete Models", Athena Scientific [Review Published in Optimization Methods & Software Vol. 10 (1999), pp. 745-746].
17. Y. Censon and S. Zenios, "Parallel Optimization: Theory, Algorithms, and Applications", Oxford University Press (1997) [Review Published in Optimization Methods & Software Vol. 10 (1999), pp. 583-586].
18. R.Reemtsen and J.-J. Rueckmann (Eds), "Semi-infinite Programmig", Kluwer Academic Publishers (1998) [Review Published in Optimization Methods & Software Vol. 10 (1999), pp. 823-824].
19. C.A. Floudas, "Deterministic Global Optimization : Theory, Algorithms and Applications," Kluwer Academic Publishers, 2000 [Review published in the Journal of Global Optimization, 2000].
20. C.T. Kelley, "Iterative Methods for Optimization", SIAM, *Frontiers in Applied Mathematics*, Vol. 18 (1999) [Review published in *Mathematics of Computation* Vol. 69, No. 232, 2000, p. 1743].
21. Joachim Paul Walser, "Integer Optimization by Local Search: A Domain-Independent Approach," *Lecture Notes in Artificial Intelligence 1637*, Subseries of *Lecture Notes in Computer Science*, Springer-Verlag, Berlin, (1999) .
22. J.D. Pinter, "Computational Global Optimization", Kluwer Academic Publishers (2001) [Review published in *Optimization Methods & Software* Vol. 17 (2002), pp. 165-166].

23. D. Bertsekas, "Nonlinear Programming: 2nd edition", Athena Scientific (1999) [Review published in *Optimization Methods & Software* Vol. 17 (2002), pp. 166-167].
24. I.V. Konnov, "Combined Relaxation Methods for Variational Inequalities", *Lecture Notes in Economics and mathematical Systems* Vol. 495, Springer-Verlag (2001) [Review published in *Optimization Methods & Software* Vol. 17 (2002), pp. 168-169].
25. Mitsuo Gen and Runwei Cheng, "Genetic Algorithms & Engineering Optimization," John Wiley & Sons, 1999 [Review published in *SIAM Review* Vol. 44, No. 4 (2002), pp. 739-740].
26. R.G. Strongin and Y.D. Sergeyev, "Global Optimization with Nonconvex Constraints: Sequential and Parallel Algorithms," Kluwer Academic Publishers, 2000 [Review published in *Journal of Global Optimization* 24 (2002), pp. 485-486].
27. "Algorithms for Worst-Case Design and Applications to Risk Management" (by B. Rustem & M. Howe), Princeton University Press 2002 [Review published in the *Journal of Economics* Volume 80, Number 2 (2003), pp. 197 - 198].
28. D. Bertsekas, Angela Nedic and Asuman E. Ozdagar "Convex Analysis and Optimization", Athena Scientific 2003 [Review Published in *Optimization Methods & Software* Vol. 18 (2003), pp. 735-736].
29. I. Maros "Computational Techniques of the Simplex Method", Kluwer Academic Publishers 2003 [Review Published in *Optimization Methods & Software* Vol. 19 (2004), pp. 121-123].
30. D. Amaratunga and J. Cabrera, "Exploration and Analysis of DNA Microarray and Protein Array Data," Wiley, 2004 [Review published in *Annals of Biomedical Engineering*, Volume 32, Number 11, pp. 1597 - 1597 (2005) (with S. Busygin)].
31. S. Knudsen, "Guide to Analysis of DNA Microarray Data," Wiley, 2004 [Review published in *Annals of Biomedical Engineering*, Volume 32, Number 11, pp. 1596 - 1596 (2005) (with S. Busygin)].
32. Sroslav D. Sergeyev (2003), *Arithmetic of infinity*, Edizioni Orizzonti Meridionali, 112 pp., ISBN 88-89064-01-3. [Review published in *Journal of Global Optimization* Vol. 34, No. 1 (2006), pp. 157 - 158.]
33. *Dynamic Programming and Optimal Control*, 3rd Edition (by Dimitri Bertsekas), Athena Scientific, Belmont, MA, 2007 (Review published in *Optimization Methods & Software*, Vol. 22, no. 6 December 2007, pp. 985 - 986),
34. *Multi-Parametric Programming- theory, algorithms and applications*, Vol. 1 & *Multi-Parametric Model-Based Control- theory and applications*, Vol. 2 (edited by E.N. Pistikopoulos, M.C. Georgiadis and V. Dua), *Series on Process Systems Engineering*, Wiley-VCH, Weinheim, 2007 (Review published in *Optimization Methods & Software* Vol. 23, No. 3 (2008), pp. 471-472).
35. *Equilibrium Modes and Variational Inequalities* (by I. Konnov), Elsevier 2007 (Review published in *Optimization Methods & Software*, Vol. 23, no. 1, 2008, p. 173).
36. *Approximate Dynamic Programming: Solving the curse of dimensionality* (by W. Powell), Elsevier 2007 (Review published in *Optimization Methods & Software*, Vol. 24, no. 1, 2009, p. 155).

CONSULTING

Springer, Optima Nueroscience, AT & T Labs Research, Dash Optimization, Inc., Kluwer Academic Publishers, Industries in Europe.

PATENTS

Multi-dimensional multi-parameter time series processing for seizure warning and prediction (with Sackellares James Chris, Iasemidis Leonidas D., Shiau Deng-Shan, Dance Linda, and Chaovalitwongse Wanpracha)

Patent 7,263,467 (Issued on August 28, 2007).

Optimization of Multi-dimensional Time Series Processing for seizure warning and prediction (with Sackellares James Chris, Iasemidis Leonidas D., Shiau Deng-Shan, Yatsenko Vitaliy, and Chaovalitwongse Wanpracha)

Patent 7,373,199 (Issued on May 13, 2008).

Optimization of spatio-temporal pattern processing for seizure warning and prediction (with Sackellares James Chris, Iasemidis Leonidas D., Shiau Deng-Shan, and Chaovalitwongse Wanpracha)

Patent 7,461,045 (Issued on December 2, 2008).

Sensor registration by global optimization procedures (with Mauricio Guilherme de Carvalho Resende and Michael Jacob Hirsch)

Patent 7,653,513 (Issued January 26, 2010).

Sensor registration by global optimization procedures (with Mauricio Guilherme de Carvalho Resende and Michael Jacob Hirsch)

Patent 7,974,816 (Issued July 5, 2011).

Multi-dimensional dynamical analysis (with Sackellares James Chris, Iasemidis Leonidas D., Shiau Deng-Shan, Dance Linda, and Chaovalitwongse Wanpracha)

U.S. Utility Patent application filed on December 21, 2006, Serial No.: 11/339,606.

Closed-Loop State-Dependent Seizure Prevention Systems (with Sackellares JC, Principe JC, Shiau DS, Cho J, and Nair SP)

U.S. Utility Patent application filed on December 19, 2006, Serial No.: 11/641,292.

Atomic Magnetometer Sensor Array Magnetoencephalogram Systems and Method (with F. Skidmore, C. Sackellares, M. Davidson, and B. Whiting)

United States Patent Application 20100219820 (Filed April 14, 2008)

Methods and Systems for Brain Function analysis (with J. C. Sackellares, S. T. Bearden, and J.-H. Chien)

Patent 10,849,563 (Issued December 1, 2020)

RESEARCH SUPPORT

- IBM Support Program Award (1988 - 1989): “Parallel branch and bound algorithms”.
- Cray Research and Development Grant for the project “Parallel search algorithms in combi-

natorial optimization” (1989 - 1990 -1991-1992).

- Cornell National Supercomputer Facility Award (1991-1992).
- Air Force Office of Scientific Research. Title: Resent Advances in Global Optimization, 1 year (1991), Grant: AFOSR-91-0116.
- Air Force Office of Scientific Research. Title: Complexity Issues for Numerical Optimization, 1 year (1991), Grant: AFOSR -91-0102.
- NSF and U.S. Army Research Office support for the conference on “Large scale optimization” (with W. Hager and D. Hearn, Univ. of FL, Febr. 1993), Grants: NSF - DMS-9217405 and ARO - DAAH04-93G-0031.
- DIMACS (NSF and NJ Commission on Science and Technology) support (May-June 1993).
- DIMACS (NSF and NJ Commission on Science and Technology) support (April-May 1994).
- “SCOOP : Solving Combinatorial Optimization Problems in Parallel” (ref.: Proposal ERB4050PL941153 / Contract ERBCHRXCT940640) Award from the European Com. Program “Human capital and mobility” (1995-1998).
- DIMACS (NSF and NJ Commission on Science and Technology) support (March 1995).
- DIMACS (NSF and NJ Commission on Science and Technology) support (March 1996).
- DIMACS (NSF and NJ Commission on Science and Technology) support (April 1997).
- DIMACS (NSF and NJ Commission on Science and Technology) support (Fall 1997).
- DIMACS (NSF and NJ Commission on Science and Technology) support for the Workshop on Mobile Networks and Computing (\$14,000 - Spring 1999).
- DIMACS (NSF and NJ Commission on Science and Technology) support for the Workshop on Discrete Algorithmic Problems in Medical Applications (\$14,000 - Fall 1999).
- “Global Minimization of Nonconvex Energy Functions: molecular Conformation and Protein Folding”. Grant: NSF - BIR-9505919 (April 1, 1996 – March 31, 1998), \$61,707.
- “Engineering Research Equipment: Equipment for Research in Applied and Computational Optimization” (with D. Hearn), Grant: NSF - DMI-9622200 (April 1, 1996 – March 31, 1997), \$21,630 - excluding matching funds from the University of Florida.
- NSF support for the conference on “Network Optimization” (with W. Hager and D. Hearn), Grant: NSF - DMS-9522573 (January 1, 1996 – Dec. 31, 1996) \$15,000.
- “Multitarget MultiSensor Fusion For a Near-Real-Time Air-to-Surface Weapon Tracking Filter”, US Dept. of Air Force, Grant: F08635-92-C-0032, TA. P00028 (May 5, 1997 – Dec. 31, 1997) (with K. Dominiak), \$59,661.
- NSF EIA 98-72509: “Integrating Randomization Techniques in the Undergraduate and Graduate Curricula,” **Co-PIs:** Randy Chow, Linda Crocker, Sanguthevar Rajasekaran, Raphael Haftka, Raj Rajagopalan, Sanjay Ranka, Gerhard Ritter, Sartaj Sahni, Stanley Su, Baba Vemuri. National Science Foundation, \$372,312 - excluding matching funds from the University of Florida - (August 1998 to July 2001).

- NSF DMS 9817945: Support for the “Conference on Approximation and Complexity in Numerical Optimization: Continuous and Discrete Problems,” \$5,000 (April 1, 1999 to March 31, 2000).
- NSF DMI-0082231: Support for the “Conference on Stochastic Optimization: Algorithms and Applications,” \$5,000 (May 1, 2000 - March 31, 2001).
- NATO (Scientific and Environmental Affairs Division), SST.CLG 975032: “Calculating Robust Bayesian Estimates Using Optimization Approaches,” 815,000 Belgian Francs (1999-2000).
- NSF DBI 9808210: “Global Optimization Approaches for Molecular and Protein Conformation Problems” \$109,266.00 (Oct. 1999- Sept. 2001).
- United States Civilian Research and Development Foundation CRDF Award UW0-1010 (Proposal Number UW-032): “Recent Advances in Non-Differentiable Optimization” \$13,400 (2000).
- US Dept. of Air Force grant (F-08630-00-1-0001), “Optimal Risk Path and Target Coverage Algorithms”, \$230,000 (2000-2001) (with S. Uryasev).
- US Dept. of Air Force grant (F-49620-01-1-0338), “Robust Decision Making: Addressing Uncertainties in Distributions” (2001-2003), \$200,000 (with S. Uryasev)
- “International Conference on Biocomputing” (February 25-27, 2001), \$21,000 from UF (\$10,000 BME Program, \$5,000 Brain Institute, and \$6,000 College of Engineering and UF Research and Graduate Programs).
- \$15,000 from the BME Program for Visitors (joint with the Medical School).
- UF Research Opportunity Fund 2001: “Preictal Detection and Therapeutic Intervention in a Transgenic Epileptic Rodent” (with P. Carney and C. Sackellares), \$50,000.
- NIH Grant Number: 1 R01 NS39687-01A1 (07/19/2001 - 04/30/2006): “Bioengineering Research Partnership in Brain Dynamics” (with J.C. Sackellares et al) (FY2001: \$847,398, FY2002: \$819,681, FY2003: \$900,803, FY2004: \$904,026, FY2005: \$929,365).
- NATO PST.GLG.978668, “Robust Statistical Estimates and Applications in Nuclear Safety,” EUR 10,000 (2002-2003).
- Support for the “Quantitative Neurosciences” conference:
 - McKnight Brain Institute \$6,000
 - School of Engineering \$3,000
 - Biomedical Engineering Department \$3,000
 - UF Research Foundation \$3,000
 - School of Medicine \$6,000
 - Ortho-McNeil Pharmaceutical, Inc \$5,000
- AFOSR, Equipment for defense Related Projects Conducted by the Risk Management & Financial Engineering Lab (with S. Uryasev and E. Romejin) \$182,228 (2003-2004).
- CRDF, Clique-Detection Algorithms with Applications in Biomedical Engineering, (with Ivan Sergienko, Institute of Cybernetics, UAS (Kiev)) \$60,000 (2003-2004).

- “A quantitative EEG method for real-time detection of neonatal seizures in the neonatal intensive care unit” (08/1/03 - 07/31/05), Partnership for Petriadic Epilepsy Research, Epilepsy Foundation of America; Total amount \$75,000 (with P. Carney, C. Sackellares, and D. Shiau).
- NSF, “ITR: Information Extraction from Massive Data Sets” (with Sanguthevar Rajasekaran, Thomas Cormen, and Sartaj Sahni) \$3, 350,534.00 (2003-2008).
- Evelyn F. & William L. McKnight Brain Institute of the University of Florida Award (with P. Carney), “Data mining and optimization techniques in EEG data analysis and epileptic brain modeling,” \$20,000 (2003-2004).
- A Quantitative EEG Method for Real-Time Detection of Neonatal Seizures in the Neonatal Intensive Care Unit: Epilepsy Foundation Partnership for Pediatric Epilepsy Research (Paul R. Carney, M.D., J. Chris Sackellares, M.D., Deng Shiau, Ph.D. and Panos Pardalos, Ph.D), 8/1/03-7/31/05, \$100,000.
- OTL, University of Florida (With P. Carney, J. Pricipe, C. Sackellares, and D. Shiau), “On Line Real Time Seizure Prediction in Adult Patients with Epilepsy”, \$28,340 (2004).
- NSF, “Design and Analysis of Algorithms for Multicast Networks”, \$246,820 (2004-2008).
- NSF, “Design and Analysis of Algorithms for Multicast Networks” (Supplement Award), \$44,038.00 (2005-2006).
- AFOSR, Eavesdropping (or Jamming) of Communication Networks (with S. Uryasev), \$240,000 (2005-2007).
- AFOSR, (DURIP-05) Equipment for defense-related projects of the center for applied optimization (with S. Uryasev), \$148,953.42 (2006-2007).
- DIMACS (NSF) support for the Conference on Data Mining, Systems Analysis and Optimization in Neuroscience (\$10,000 - Spring 2007).
- DIMACS (NSF) support for the Workshop on Clustering Problems in Biological Networks (\$14,000 - Spring 2007).
- AFOSR (AGENCY NO:FA9550-07-1-0047) “Human Supervision of Time Critical Control Systems” (\$415,391, 12/01/2006 thru 01/14/2009).
- NSF DMI-0636482, Support for the “2nd International Conference on Complementarity, Duality, and Global Optimization in Science and Engineering” (\$30,000 2/1/2007 - 1/31/2008).
- Optima Neuroscience, Inc., “Linear and Nonlinear Causality Between Multivariate Systems” (\$7,285.00, 1/1/2007 - 5/15/2007).
- FL Dept. of Veterans Affairs (573-D75066) “Support for Graduate Students” (\$3,370.00, 07/01/2007 - 08/15/2007).
- FL Dept. of Veterans Affairs (573-D85040) “Support for Graduate Students” (\$10,497.00, 01/01/2007 - 05/14/2008).
- FL Dept. of Veterans Affairs (573-D85060) “Support for Graduate Students” (\$6,901.00, 05/15/2008 - 08/15/2008.).
- DIMACS (NSF) support for the Conference on Computational Neuroscience (\$10,000 - Spring 2008).

- FL Dept. of Veterans Affairs (F014249 - Research and Education for Parkinson's disease) "Support for Graduate Students" (\$8,000.00, 05/15/2008 - 08/15/2008.).
- AFOSR "Detecting and Jamming Dynamic Communication Networks in Anti-Access Environments" (\$436,672, 12/01/2007 - 11/30/2010).
- DIMACS (NSF and NJ Commission on Science and Technology) support for the DIMACS/DyDAn Workshop on Approximation Algorithms in Wireless Ad Hoc and Sensor Networks (\$14,000 - Spring 2009).
- UF Research Opportunity Fund 2009: "A portable, wearable, fast, magnetic resonance imager (MRI)" (with M. Davidson, Y. Chen, F. Skidmore, B. Whiting, and P. Holloway), \$90,298.
- "Biological Models for Information Systems Dynamics," Florida Institute for Information Systems Dynamics, \$10,000 (9/26/2009 - 12/26/2009)
- Center for Multimodal Solutions for Congestion Mitigation, US Dept. of Transportation/Fed Highway Admin. "Multimodal solutions for large scale evacuation" (\$71,481, 2/15/08 -01/31/09)
- Center for Multimodal Solutions for Congestion Mitigation, US Dept. of Transportation/Fed Highway Admin. "Development of a Multimodal Transportation Educational Virtual Application" (with P. Sheng and R. Figueiredo), (\$110,000, 8/1/09 -8/1/10)
- U.S. Department of Defense/DTRA "Modeling and Optimization of Network Response to WMD Attacks Under Uncertainty" (with V. Boginski (co-PI), and S. Uryasev (co-PI)), \$219,016 (1/01/09-03/31/10)
- Improvement Capability Grant "Applying Systems Engineering Concepts to Improve Efficiency, Patient Satisfaction, and Quality of Care in a Veterans Health Administration Medical Center", Veterans Health Administration, Office of Systems Redesign, \$300,000 (2009-2010). Team involves VAMC, Tampa, FL & Center for Applied Optimization, University of Florida, Gainesville, FL
- Center for Multimodal Solutions for Congestion Mitigation, US Dept. of Transportation/Fed Highway Admin. "Novel Approaches for road congestion minimization" (\$30,000, 4/1/2010 -6/30/11)
- AFOSR, (DURIP-10) Equipment for DOD-funded large-scale data analysis and network optimization projects at the University of Florida, the center for applied optimization (with S. Uryasev), \$215,937.00 (2010-2011)
- NSF 2010-2013, Quantifying Causality in Distributed Spatial Temporal Brain Networks (with J. Principe), \$550,000
- Center for Multimodal Solutions for Congestion Mitigation, US Dept. of Transportation/Fed Highway Admin. "Strengthening the Resiliency of the Coastal Transportation System through Integrated Simulation of Storm Surge, inundation, and non-recurrent congestion in Northeast Florida" (with P. Sheng and R. Figueiredo), (\$154,000, 4/1/2011 -4/1/2012)
- UF Research Opportunity Fund (2011 -2013): "Raman Spectroscopy Using a Novel Data Mining Technique for Real-Time Pharmacological Analysis of Potential Anti-Cancer Agents," \$79,000.
- Florida Energy System Consortium (2011 -2012): "Optimization, robustness and equilibrium modeling for the Florida Smart Grid," \$30,000.

- “A Dynamic Data Driven Cognitive Control Architecture for Exploration,” US Air Force 2013-2015 (with J. Principe). \$500,000.
- DTRA 2010-2013, Mathematical Approaches to WMD Defense and Vulnerability Assessments on Dynamic Networks (with C. Smith and M. Thai), \$632,407 Extended to 2015.
- “A Probabilistic Model In The Study Of Match - Fixing Schemes For Multi-Contestant Games,” Joint project with the National Research Foundation of Korea in cooperation with the Korea National Sport University (2014-2016, \$120,000).
- 2016-2017, UF Informatics Institute (UFII) Seed Fund for ”Data Science Techniques for Studying Patient-Specific Risk Assessment for Acute Kidney Injury” (PI: P.M. Pardalos [with P. Momcilovic and A. Bihorac]), \$47,500.00.
- 2016-2019, NIH-NIGMS RO1 ”Precision and Intelligent Systems in Medicine Partnership” (Co-PI with A. Bihorac, A. Li, P. Rashid, W. Hogan, P. Momcilovic, T. O. Basanti, D. Z. Wang, G. Lipori and M. Downey), \$2,7M.
- NRI: INT: COLLAB: High Throughput Multi-Robot Weed Management for Specialty Crop. National Robotic Initiative (NRI), National Research Foundation (NSF)/USDA. Duration: 04/01/2020 - 03/31/2024. (PI: Yiannis Ampatzidis, Co-PIs: Dr. Pardalos, UF, Dr. Silwal, Carnegie Mellon University) Total Budget: \$1,193,997 UF Budget: \$793,997

INVITED TALKS:

1. Global optimization approach to the linear complementarity problem, 12th International Symposium on Mathematical Programming, MIT Cambridge, Massachusetts (August 1985).
2. Algorithms for global optimization of indefinite quadratic problems, Workshop on Global optimization, International Institute for Applied Systems Analysis, Austria (December 1985).
3. Global optimization algorithms for VLSI, Optimization Days (May 1987), Montreal.
4. Indefinite quadratic programming, ORSA/TIMS National Meeting (Oct. 1987), St. Louis.
5. Recent advances in linear programming (Jan. 26, 1988) and Integer and nonconvex programming (Jan. 28, 1988), University of South Alabama.
6. Global minimization algorithms of indefinite quadratic functions subject to linear constraints, Workshop on Global Optimization (March 1988), University of Florida, Gainesville.
7. Parallel branch and bound algorithms for quadratic zero-one programs on the hypercube architecture (with G. Rodgers), Workshop on Supercomputers and Large-Scale Optimization: Algorithms, Software, Applications (May 16-18, 1988, Supercomputer Institute, Minneapolis, MN)
8. Polynomial time algorithms for some classes of constrained nonconvex quadratic problems, AMS-IMS-SIAM Research Conference "Mathematical Developments Arising from Linear Programming" (June 1988, Maine).
9. Computational results of parallel branch and bound algorithms for quadratic integer programming on several supercomputer architectures, The 13th International Symposium on Mathematical Programming (August 1988, Tokyo, Japan).
10. Parallel branch and bound algorithms for the quadratic zero-one and the clique problems, (November 1988, University of Minnesota)
11. Indefinite quadratic zero-one programming and the maximum clique problem. (Rutgers Center for Operations Research, February 21, 1989 and Princeton University, February 22, 1989)
12. A decomposition approach for evaluating membership values in fuzzy sets. Operations Research Colloquium, Penn. State University (March 1989)
13. The maximum clique problem. (University of Maryland, March 1989).
14. Computational aspects of a branch and bound algorithm for quadratic zero-one programming. Optimization Days (Montreal, May 1989).
15. Global optimization. National Technical University of Athens, Greece (June 1989).
16. Indefinite quadratic zero-one programming and related graph problems. University of Trier, Germany (June 1989).
17. Interior point methods for quadratic programming problems. Optimization Methods and their Applications, Irkutsk, USSR (Sept. 1989).
18. An interior point algorithm for quadratic programming problems. (University of Gainesville, Florida, Dec. 1989).

19. The General linear complementarity problem. (Ecole Polytechnique, Montreal, Canada, January 1990).
20. Interior point algorithms for some classes of quadratic programming. (IBM Watson Research Center, March 1990).
21. Algorithms for minimum concave cost network flow problems. (Optimization Days, Montreal, May 1990).
22. Minimum concave-cost network flow problems. (IFORS, Athens, June 1990).
23. Minimum concave-cost network flow problems. (Sopron, Hungary, Dec. 1990).
24. Parallel algorithms for nonconvex optimization problems. (London, Jan. 1991).
25. Quadratic 0-1 and Quadratic Assignment problems. (University of Iowa, March 1, 1991).
26. Interior point algorithms for large-scale quadratic problems with box constraints. (Army High Performance Computing Research Center, University of Minnesota, March 1991).
27. Quadratic 0-1 and Quadratic Assignment Problems (Georgia Tech., April 1991)
28. Interior Point Algorithms for Quadratic Programming (Bell Labs, Murray Hill, April 1991)
29. Parallel algorithms for the quadratic assignment problem. (Army High Performance Computing Research Center, University of Minnesota, May 1991).
30. Workshop on Large-scale optimization (Coimbra, Portugal, 29-31 July 1991), Invited plenary speaker.
31. 14th International Symposium on Mathematical Programming (Amsterdam, The Netherlands, August 5-9, 1991), Invited speaker.
32. Second Stockholm Optimization Days Conference (Stockholm Sweden, August 12-13 1991), Invited Plenary speaker.
33. Workshop on Numerical Analysis and Optimization (Mexico, January 1992), Invited speaker.
34. Oberwolfach conference on Applied and Computational Convexity (Germany, February 1992).
35. Global Optimization Approaches for Solving Bilevel Programs (Technical University of Crete, Greece, March 1992).
36. SIAM Conference on Optimization (Chicago, May 1992), Invited speaker.
37. Thinking Machines (Boston, June 1992), Invited speaker.
38. University of Trier, Germany (June 22, 1992), Invited speaker.
39. Army High Performance Computing Research Center, University of Minnesota (Oct. 1992), Invited speaker.
40. AT & T Bell Laboratories (Murray Hill) March 1993, Invited speaker.
41. United States Naval Academy (Annapolis) March 1993, Invited speaker.
42. University of British Columbia (Vancouver), April 1993, Invited speaker.

43. University of South Australia, April 1993, Invited speaker.
44. IFORS 93 Conference, Lisbon Portugal, Invited speaker.
45. Fourth Stockholm Optimization Days Conference (Stockholm Sweden, August 1993), Invited Plenary speaker.
46. Comp. Science Dept., Ohio University, Athens OH (Colloquium speaker, Oct. 1993).
47. Computer Science Department, University of Minnesota (Colloquium speaker, Nov. 1993)
48. Invited speaker at the International Conference and Research Center for Computer Science in Schloss Dagstuhl, Germany (1993)
49. DIMACS (Invited speaker on pannel discussion for second dimacs implementation challenge, Oct. 1993).
50. Georgia Institute of Technology, Atlanta (Colloquium speaker, February 1994)
51. University of California, Riverside, Business School (Colloquium speaker, March 1994)
52. University of California, Berkeley, Industrial Engineering and Operations Research (Colloquium speaker, March 1994)
53. Stanford University, Operations Research Department (Colloquium speaker, March 1994)
54. Hungarian Academy of Sciences, Budapest (2 talks on “Global Optimization,” May 1994)
55. University of Vienna, Austria (Colloquium speaker, May 1994).
56. Technical University of Graz, Austria (Colloquium speaker, June 1994).
57. Linkoping Institute of Technology, Sweden (Colloquium speaker, June 1994).
58. Aristotle University, Thessaloniki, Greece (Colloquium speaker, June 1994).
59. Universit. di Monte S. Angelo, Napoli, Italy (Colloquium speaker, June 1994).
60. University of Galgary, Canada (Colloquium speaker, July 1994).
61. University of Iowa Center for Advanced Studies (Invited Speaker, July 1994).
62. Invited speaker at the 15th Mathematical Programming Symposium (Ann Arbor, August 1994).
63. Invited speaker at the conference on “Parallel Algorithms for Irregularly Structured Problems” (Geneva, Switzerland, Sept. 1994).
64. University of Geneva, Department of Management Sciences (Colloquium speaker, Sept. 1994).
65. Oberwolfach conference on Applied and Computational Convexity (Germany, January 1995).
66. DIMACS, Center for Discrete Mathematics and Theoretical Computer Sciences (March 1995).
67. Linkoping Institute of Technology, Sweden (Colloquium speaker, May 1995).
68. Nonlinear Optimization and Applications, Erice, Italy (Invited speaker, June 1995).
69. High Performance Software for Nonlinear Optimization: Status and Perspectives, Capri, Italy (Invited speaker, June 1995).

70. Environment, Locational Decisions and Regional Planning, Kavala, Greece (Invited speaker, July 1995).
71. Institute of Mathematics and its Applications (IMA), Minneapolis MN, IMA Summer Program on "Large Scale Optimization" (Invited speaker, July 1995).
72. Nordik Summer School, Sweden (August, 1995), Invited Speaker
73. Conference on "Parallel Algorithms for Irregularly Structured Problems (Lyon, France, Sept. 1995), Invited Speaker.
74. University of Vermont (Colloquium speaker, Sept. 1995).
75. University of Oklahoma (Colloquium speaker, Oct. 1995).
76. University of Illinois, Urbana (Colloquium speaker, Oct. 1995).
77. University of Vienna, Austria (Invited speaker, Dec. 1995).
78. University of Macedonia, Greece (Invited speaker, Dec. 1995).
79. Hungarian Academy of Sciences (Invited speaker, March 1996).
80. University of Puerto-Rico (Colloquium speaker, April 1996).
81. Technical university of Crete, Greece (Colloquium speaker, July 1996)
82. 8th French-German Colloquim on Optimization, Trier, Germany (Invited Speaker, July 1996).
83. Linkoping Institute of Technology, Sweden (Colloquium speaker, August 1996).
84. PARA96, Workshop on Applied Parallel Computing in Industrial Problems and Optimization, Lyngby, Denmark (Invited Speaker, August 1996).
85. Workshop on Linear programming, Technical University of Denmark (Invited Speaker, August 1996).
86. Oberwolfach, Workshop on Combinatorial Optimization, Germany Oct. 1996 (Invited Speaker).
87. 5th DIMACS Implementation Challenge, DIMACS Center (Oct. 1996).
88. DIMACS Workshop on Hierarchical Structures in Biology (invited speaker), Nov. 1996.
89. IMA (Minneapolis, January 1997), MATHEMATICS IN HIGH-PERFORMANCE COMPUTING (invited speaker).
90. University of Cincinnati (March 1997) (invited speaker).
91. Linkoping Institute of Technology Sweden (August 1997, invited speaker).
92. KTH, Stockholm Sweden (August 1997, invited speaker).
93. Chalmers University, Goteborg Sweden (August 1997, invited speaker).
94. Mathematical Programming Symposium, Lausanne, Switzerland (August 1997, invited speaker).
95. Technical University of Crete (Sept. 1997, invited speaker).

96. Penn State University (Oct. 1997, Colloquium speaker).
97. Invited Speaker, Conference on “Algorithms and Experiments” (ALEX98), Universita di Trento, Italy (February 1998).
98. Invited Speaker, DIMACS Center (March 1998).
99. Invited Speaker, Computer Science Department, University of Minnesota, Minneapolis (April 20, 1998).
100. Invited Speaker, University of the Aegean Greece (May 1998).
101. Invited Speaker, International Conference on “Nonlinear Optimization and Applications,” International School of Mathematics “G. Stampacchia,” Erice, Italy (July 1998).
102. Invited Speaker, NATO Advanced Research Workshop “Large Scale Computations in Air Pollution Modelling,” Sofia, Bulgaria, (July 1998).
103. Invited Colloquium Speaker, Business School of Administration (E.A.E.) Barcelona, Spain (Nov. 1998).
104. Invited Speaker, International Conference on “Equilibrium Problems and Variational Models”, Taormina, Italy (December 1998).
105. Invited Colloquium Speaker, Computer Science and Engineering, The Chinese University of Hong Kong (December 1998).
106. Invited Speaker, International Conference on “Nonlinear Programming and Variational Inequalities” Hong Kong (December 1998).
107. Invited Speaker, Oberwolfach conference on Applied and Computational Convexity (Germany, January 1999).
108. North Carolina State University, Operations Research Program (Colloquium speaker, Febr. 1999).
109. Tokyo Institute of Technology, Tokyo Japan (Invited Speaker, March 1999).
110. Center for Discrete Mathematics and Theoretical Computer Sciences (DIMACS), Invited Speaker, March 1999.
111. Invited Speaker, “Second International Aegean Workshop on Analysis & Modelling of Manufacturing Systems” (Tinos, Greece), May 1999.
112. Invited Speaker, University of Ioannina, Greece (Invited Speaker, June 1999).
113. Invited Speaker, 1999 ASME Mechanics and Materials Conference, Virginia Tech. (June 1999).
114. Invited Colloquium Speaker, Central Queensland University of Australia (July 1999).
115. Invited Speaker, First International Joint meeting of the American Mathematical Society and the Australian Mathematical Society (Melbourne, Australia, July 1999).
116. Invited Speaker, 6th Australian Optimization Day (Ballarat, Australia, July 1999).
117. Invited Speaker, Summer School and 6th International Symposium on Generalized Convexity/Monotonicity (August 1999, Samos - Greece).

118. Invited Speaker, Global Optimization 1999 (GO.99) Conference (Florence, Italy, Sept. 1999).
119. Invited Speaker, Oberwolfach conference on Continuous Optimization In Industry (Germany, January 2000).
120. Invited Speaker, Center for the Greek Studies, 20th Anniversary Conference (February 2000).
121. Invited Speaker, Ukrainian Academy of Sciences, Kiev Ukraine (May 2000).
122. Invited Speaker, International Parallel & Distributed processing Symposium (IPDPS - Irregular 2000), Puerto-Rico (May 2000) [Abstract: Lecture Notes in Computer Science Vol. 1800, Springer-Verlag (2000) page 504].
123. Invited Speaker, Lithuanian Academy of Sciences (Vilnius, June 2000).
124. Invited Speaker, Stampacchia School of Mathematics, Erice, Italy (June 2000).
125. Invited Speaker, AMS-IMS-SIAM Joint Summer Research Conference on “Algorithms & their Complexity for Nonlinear Problems” (Mount Holyoke College MA, July 2000).
126. Invited Speaker, International Workshop on Parallel matrix algorithms and applications (August 2000, Switzerland).
127. Invited Speaker, VII congress of SIGEF: Decision Making under Uncertainty in the Global Environment of the 21st Century (Sept. 2000, Chania, Greece).
128. Invited Speaker, The First Sino-Japan Optimization Meeting (HongKong, Oct. 26-28, 2000)
129. Invited Speaker, Optimization with High Technology Application (Hong Kong, October 23-25 2000).
130. Invited Speaker, Telecom Forum 2000 (Nov. 2000, Athens, Greece).
131. Invited Speaker and Mini-Symposium Organizer “Applications of Mathematics to Problems in Medicine” (AAAS National Meeting, San Francisco, February 2001)
132. Invited Speaker at the International Conference on Optimization and Optimal Control (June 1-4, 2001) National Cheng Kung University, Tainan, Taiwan.
133. Invited speaker at the STOCHASTIC GLOBAL OPTIMISATION 2001 Conference (Hanmer, South Island, New Zealand 24-29 June 2001).
134. Invited speaker at the Parallel Computing 2001 (ParCo2001) Conference Naples, Italy 4-7 Sept. 2001).
135. Invited speaker at the 5th International Workshop on Mathematical Methods in Scattering Theorey and Biomedical Technology (Corfu Greece, Oct 18-19, 2001).
136. Invited Speaker at the Tokyo Institute of Technology (Dec. 2001).
137. Invited Speaker at the Hong Kong University of Science and Technology (Dec. 2001).
138. Invited Plenary Speaker at the 5th International conference on Optimization: Techniques and Applications (ICOTA2001), Chinese University of Hong Kong, Dec. 2001.
139. Invited OR Colloquium speaker (Penn State University, February 2002).

140. Invited speaker (Department of Computing, Imperial College of Science, Technology & Medicine, London - March 2002).
141. Invited speaker (Universitat Politecnica de Catalunya, Barcelona Spain - March 2002).
142. Invited Speaker, Stampacchia School of Mathematics, International Conference on Mathematical Diagnostics, Erice, Italy (June 2002).
143. Plenary speaker, International conference on Nonsmooth/Nonconvex Mechanics with Applications in Engineering, Aristotle University of Thessaloniki, Greece (June 2002).
144. Invited Speaker, National University of Singapore (August 2002).
145. Invited Speaker, International Conference on Optimization and Optimal Control (Mongolia, August 13-17, 2002).
146. Plenary Speaker, OCA2002 - The Second International Conference on Optimization and Control with Applications (China, August 18-22, 2002).
147. Invited speaker, Universite de Neuchatel, Switzerland (Nov. 2002).
148. Invited speaker, International conference on "Optimization Methods & Software" (China, Dec. 15, 2002).
149. Invited speaker, University of London, Computer Science Department (January 22, 2003).
150. Invited speaker, London School of Economics (January 23, 2003).
151. Distinguished invited speaker, Centre for Process Systems Engineering, Imperial College of Science, Technology & Medicine, London (January 24, 2003).
152. Invited speaker, Technical University of Crete and Mediterranean Agronomic Institute, Chania, Greece (April 2003).
153. Invited speaker, International conference on "Variational Analysis and its Applications," Erice, Italy (June 2003).
154. Plenary speaker, Conference on "Energy Minimization Methods in Computer Vision and Pattern Recognition (EMMCVPR) 2003" Lisbon, Portugal (July 7-9 2003).
155. Plenary speaker, AMASES (The Italian National Association for Mathematics Applied to Economics and Finance), Cagliari, Italy (Sept. 4, 2003).
156. Invited speaker, University of Cagliari, Italy (Sept. 5, 2003).
157. Invited Speaker, Conference on Global Optimization, Argonne National Laboratory (Sept. 9, 2003).
158. Invited speaker, 3rd National conference of the Hellenic Operations Research Society on Multi-criteria Analysis (Chania, Greece, Oct. 2003).
159. Invited speaker, "Continuous Optimization and Optimal Control with Applications" conference, Australian Mathematics Research Institute, Melbourne (Dec. 15, 2003).
160. Invited speaker, University of Ballarat, Australia (Dec. 18, 2003).

161. Invited speaker, "The Boeing Center for Technology, Information & Manufacturing (Olin School of Business - Washington University in St. Louis), Febr. 9, 2004.
162. Invited speaker, Industrial Engineering Department, Texas A & M University (March 22, 2004).
163. Invited Speaker, University of Geneva Switzerland, Business School (March 30, 2004) and Computer Science Department (March 31, 2004).
164. Invited speaker, Computational Management Science Conference and Workshop on Computational Econometrics and Statistics, April 2, 2004 (Neuchatel, Switzerland).
165. Invited speaker, National Academy of Sciences of Ukraine, Kiev (April 27, 2004).
166. Invited speaker, Mediterranean Agronomic Institute, Chania, Greece (May 10, 2004).
167. Invited speaker, Catholic University of Rio de Janeiro (PUC-Rio), Brazil (May 21, 2004).
168. Invited speaker, University La Sapienza, Rome Italy (June 16, 2004).
169. Invited speaker, Fifth International Conference on Computer Sciences (July 1-3, 2004, Metz, France).
170. Invited semi-plenary speaker, European Operations Research Society XX conference, Rhodes, Greece (July 5, 2004).
171. Invited plenary speaker, Foundations of Computer Aided Process Design (FOCAPD2004) conference (Princeton, July 14, 2004).
172. Invited speaker, Research Center in Operations Research (GERAD), Montreal, Canada (August 18, 2004).
173. Invited speaker, RIKEN Brain Science Institute, Japan (August 25, 2004).
174. Invited speaker, Aristotle University of Thessaloniki, Greece (Sep. 20, 2005)
175. Invited speaker, Technical University of Crete, Greece (Oct. 2005)
176. Invited speaker, Universidade Federal do Ceara - UFC Brazil (Oct. 11, 2004)
177. Invited speaker, University of Calabria, Italy (Oct. 25, 2004)
178. Invited speaker (Department of Computing, Imperial College of Science, Technology & Medicine, London - Nov. 15, 2004).
179. Invited plenary speaker, 3rd WSEAS Int. Conf. on NON-LINEAR ANALYSIS, NON-LINEAR SYSTEMS AND CHAOS (Athens, Greece, Dec. 29, 2004).
180. Invited tutorial speaker, The 3rd ACS/IEEE International Conference on Computer Systems and Applications - January 2005 (AICCSA-05) January 3, 2005, Cairo, Egypt (American University in Cairo).
181. Invited speaker, Chemical Engineering Department at Texas A & M University, Lindsay Lecture Series (March 4, 2005).
182. Invited speaker, Industrial, Welding & Systems Engineering Ohio State University (April 14, 2005).

183. Invited speaker, Department of Computer Science, Georgia State University (May 5, 2005).
184. Invited tutorial speaker, Workshop of the European Chapter on Metaheuristics on “Metaheuristics and Large Scale Optimization”, Vilnius Lithuania (May 19, 2005).
185. Invited speaker, “The 1st International Conference on Control and Optimization with Industrial Applications” (May 22-25, 2005. Baku, Azerbaijan).
186. Keynote speaker, and Honorary Chair for the 9th WSEAS International Conference on Circuits (Athens, Greece), July 11, 2005.
187. Invited plenary speaker, at the “8th International Symposium on Generalized Convexity and Generalized Monotonicity” (GC8) (Verese, Italy), July 5, 2005.
188. Invited Colloquium speaker, Northern Illinois University (August 3 & 4 2005).
189. Invited plenary speaker, at the “Conference on Complementarity, Duality, and Global Optimization” (Virginia Tech.), August 15, 2005.
190. Invited speaker, Agricultural University of Athens (Sept. 6, 2005).
191. Invited speaker, International Workshop on Global Optimization (GO-05) (September 20, 2005. Almeria, Spain).
192. Invited speaker, Conference on Multicriteria Optimization, Technical University of Crete, Greece (Sept. 30, 2005).
193. Invited speaker, N.I. Lobachevski State University of Nizhni Novgorod, Russia (Oct. 25, 2005).
194. Invited Keynote speaker, International Symposium on Mathematical and Computational Biology (BIOMAT2005), Petropolis, Brazil (Dec. 6, 2005).
195. Invited Colloquium speaker, Mississippi State University, ISE Department (March 6, 2006).
196. Invited Colloquium speaker, University of Illinois, Urbana-Champaign, Mechanical and Industrial Engineering, (April 11, 2006).
197. Invited Colloquium speaker, Rutgers State University, ISE Department (April 18, 2006).
198. Invited Keynote speaker, DIMACS Workshop on “Computational Optimization and Logistics Challenges in the Enterprise (COLCE)” ExxonMobil Research & Engineering (EMRE), NJ (April 19, 2005).
199. Invited distinguished speaker, BASF, Ludwigshafen Germany (May 22, 2006).
200. Invited Keynote speaker, FOODSIM 2006, Naples, Italy (June 16, 2006).
201. Invited speaker, MCMD conference, Chania Crete, June 19-23, 2006.
202. Invited speaker, Datamining Workshop, Oxford, England (June 29, 2006).
203. Invited speaker, Workshop on “Variational Analysis and Partial Differential Equations” (July 5-15, 2006) Erice, Italy.
204. Invited speaker, Brazilian OR Society (Sept. 12, 2006) Goiania, Brazil.

205. Invited speaker, 64th Meeting of the European Working Group on “Multiple Criteria Decision Aiding”, Larisa, Greece (Sept. 29, 2006).
206. Invited speaker, Centre de recherches mathematiques, Montreal, Canada (Oct. 11, 2006)
207. Invited speaker, Radcliffe Institute for Advanced Study, Harvard (Oct. 20, 2006).
208. Invited speaker, DTC (Digital Technology Center) Innovators Lecture Series, University of Minnesota, Minneapolis (Oct. 31, 2006).
209. Invited speaker, Department of Industrial & Systems Engineering, University of Wisconsin-Madison (Nov. 10, 2006).
210. Invited plenary speaker, International Symposium on Mathematical and Computational Biology (BIOMAT 2006), Manaus, Brazil (Nov. 29, 2006).
211. Invited speaker, “Mathematical Programming in Data Mining and Machine Learning”, Banff International Research Station for Mathematical Innovation and Discovery, Canada (Jan. 18, 2007).
212. Invited speaker, La Sapienza University, Rome, Italy (March 6 & 8, 2007).
213. Invited distinguished speaker, BASF, Ludwigshafen Germany (April 18, 2007).
214. Invited speaker, GOR Workshop on ”Stochastische Optimierung in der Energiewirtschaft,” Aachen, Germany (April 19, 2007).
215. Invited speaker, Caterpillar Colloquium Series, Iowa University (April 26, 2007).
216. Invited tutorial speaker, Optimization Days, Ecole Polytechnique de Montreal, Canada (May 7, 2007).
217. Invited speaker, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil (May 16, 17, 2007).
218. Invited Speaker, Laurier Seminar Series in Computational Science, Applied & Statistical Modelling, Wilfrid Laurier University, Canada (May 24, 2007).
219. Invited Plenary Speaker, 2nd International Conference on Optimization and Optimal Control (July 17 - 20, 2007) Ulaanbaatar, Mongolia.
220. Invited Speaker, Stampacchia School of Mathematics, International Conference on New Problems and Innovative Methods in Nonlinear Optimization (July 2007), Erice, Italy.
221. Invited Keynote speaker, Annual meeting of the Spanish Society of Statistics and Operational Research (SEIO), (Sept. 25, 2007), Valladolid (SPAIN).
222. Invited Speaker, Universidad Politecnica de Madrid (UPM-DISAM), (Sept. 26, 2007), Madrid, Spain.
223. Invited Colloquium speaker, University of Pittsburgh, Industrial Engineering Department (Oct. 4, 2007).
224. Invited speaker, Heidelberg University, Germany, Interdisciplinary Center for Scientific Computing (IWR) Oct. 17, 2007.

225. Invited Keynote speaker, Globale Optimierung oder Mathematische Optimierung in KMUs (Workshop on Global Optimization), Bad Honnef, Germany (Oct. 18 & 19, 2007).
226. Invited plenary speaker, International Symposium on Mathematical and Computational Biology (BIOMAT 2007), Buzios, Brazil (Nov. 26, 2007).
227. Invited speaker, ISE Department, Arizona State University, Nov. 19, 2007.
228. Invited Plenary Speaker, Global Optimization Workshop, Imperial College of Science, Technology & Medicine, London (Dec. 15, 2007).
229. Invited Plenary Speaker, International Conference on Nonconvex Programming: Local and Global Approaches (Dec. 18, 2007, Rouen, France).
230. Invited Plenary Speaker, 5th Computational Management Science Conference, Imperial College of Science, Technology & Medicine, London (March 27, 2008).
231. Invited Distinguished Series Speaker, Weldon School of Biomedical Engineering, Purdue University (April 9, 2008).
232. Invited Speaker, Northwestern University, Industrial Engineering and Management Sciences Department (April 15, 2008).
233. Invited Speaker, Conference on Humanitarian Logistics, Rockefeller Foundation's Bellagio Center, Lake Como, Italy (May 8, 2008).
234. Invited Speaker, Workshop on Nonsmooth Analysis, Optimization and Applications, Erice, Italy (May 13, 2008).
235. Invited Speaker, Workshop on Energy, Natural Resources and Environmental Economics, Bergen, Norway (May 15, 2008).
236. Invited Speaker, Hellenic-American University, Athens, Greece (June 25, 2008).
237. Invited speaker, Athens Technology Institute, Athens, Greece (June 30, 2008).
238. Invited Plenary speaker, International Workshop on Stochastic and Applied Global Optimization (SAGO 2008), South Africa (July 19 2008).
239. Invited Plenary Speaker, Yalta Conference on Discrete and Global Optimization, Yalta, Ukraine (July 31, 2008).
240. Invited Plenary Speaker, Conference on Modeling and Optimization: Theory and Applications - MOPTA 2008, Guelph University, Canada (Aug. 19, 2008).
241. Invited Plenary Speaker, Conference in Numerical Analysis (NUMAN 2008) Kalamata, Greece, (Sept. 1, 2008).
242. Invited Plenary Speaker, "Graph Theory, Algorithms and Applications," "International School of Mathematics – Guido Stampacchia," Centre "Ettore Majorana" for Scientific Culture, Erice, Sicily (Italy) September 13, 2008.
243. Invited Colloquium Speaker, Computer Science Department, The University of Texas at Dallas (September 26, 2008).

244. Invited Keynote speaker, International Symposium on Mathematical and Computational Biology (BIOMAT 2008), Campos DO Jordao, Brazil (Nov. 23, 2008).
245. Invited speaker, DTRA Network Survivability Workshop (January 14-15, 2009), Albuquerque, New Mexico.
246. Invited speaker, DIMACS/DyDAn Workshop on Approximation Algorithms in Wireless Ad Hoc and Sensor Networks (22-24 April 2009, Rutgers University, Piscataway, NJ).
247. Invited Keynote speaker, data Mining in Biomedicine, Athens Information Technology Center, (May 7-8, 2009) Athens, Greece.
248. Invited Keynote speaker, The 2009 International Conference on Advances in Social Network Analysis and Mining (July 22, 2009) Athens, Greece.
249. Invited Keynote speaker, International Symposium on Mathematical and Computational Biology (BIOMAT 2009), Brasilia, Brazil (Aug. 3, 2009).
250. Invited Keynote speaker, XL Annual Conference of the Italian Operations Research Society (Siena, Italy, Sept 8, 2009).
251. Invited speaker (Department of Computing, Imperial College of Science, Technology & Medicine, London - September 29, 2009).
252. Invited plenary speaker (XI ISORA - The IX International Seminar in Optimization and Related Areas, Instituto de Matematica y Ciencias Afines, Lima Peru, Oct 7, 2009).
253. Invited keynote speaker (International Conference on Intelligent Networking and Collaborative Systems (INCoS 2009), Barcelona, Spain, Nov 3, (2009).
254. Invited Colloquium speaker (Department of Physics and Computer Science, Wilfrid Laurier University, Canada), Nov 19, 2009.
255. Invited Colloquium speaker (Dept. of Mechanical and Industrial Engineering, University of Toronto, Canada), Nov 20, 2009.
256. Invited keynote speaker (International Conference on "Economics, Management and Optimization in Sports - After the Impact of the Financial Crisis"), Royal Academy of Economic and Financial Sciences of Spain, Barcelona, Spain, Dec 2, (2009).
257. Invited plenary speaker (International Conference on "Energy & Development, Environment, Biomedicine (EDEB09)"), Vouliagmeni, Athens, Greece, Dec 29, (2009).
258. Invited speaker for the INFORMS Lecture Series (Industrial Engineering, University of South Florida, Tampa), February 15, 2010.
259. Invited speaker, Department of Industrial and Enterprise Systems Engineering, University of Illinois at Urbana-Champaign, April 8, 2010.
260. Invited speaker, KTH, Institute of Mathematics (Optimization and Systems), Stockholm, Sweden, April 13, 2010.
261. Invited speaker, Linkoping University, Sweden, April 15, 2010.
262. Invited speaker, Information and Systems Engineering, Boston University, April 23, 2010.

263. Invited speaker, Facultad de Matematicas, Universidad de Sevilla, Spain (May 4, 2010).
264. Invited speaker, University Magna Graecia of Catanzaro, Department of Experimental and Clinical Medicine, Italy (May 18, 2010).
265. Invited speaker, 9th international Symposium on Experimental Algorithms (SEA 2010) Ischia, Italy (May 21, 2010).
266. Invited speaker, Department of Statistics and Mathematics for Economic Research, University of Naples "Parthenope," Naples, Italy (May 24, 2010).
267. Invited speaker, Institute for High Performance Computing and Networking, Italian National Research Council, Naples, Italy (May 25, 2010).
268. Invited speaker, 20th Italian Workshop on Neural Networks (WIRN 2010), Vietri sul Mare, Salerno, Italy (May 27, 2010).
269. Invited speaker, Computational Intelligence Methods for Data Analysis in Oncology Bioinformatics (CIOB 2010), Vietri sul Mare, Salerno, Italy (May 27, 2010).
270. Invited speaker, FIELDS Institute, University of Toronto, Canada (June 11, 2010).
271. Invited speaker, Toulouse Global Optimization 2010, Toulouse, France (August 31, 2010).
272. Invited speaker, Bioinformatics Summer School in Erice, Italy (Sept 10, 2010).
273. Invited speaker, 5th International Summer School on Emerging Technologies in Biomedicine, Patras, Greece (Sept 27, 2010).
274. Invited Keynote speaker, 2th International Joint Conference on Computational Intelligence, Valencia, Spain (Oct 25, 2010).
275. Invited speaker, International Joint Conference on Intelligent Networking and Collaborative Systems (INCoS 2010), Thessaloniki, Greece (Nov 24, 2010).
276. Invited speaker, Department of Industrial and Systems Engineering, Texas A & M University, College Station, TX (March 10, 2011).
277. Invited speaker, Department of Industrial and Systems Engineering, University Of Houston, TX (March 11, 2011).
278. Invited speaker, Department of Mathematics, University Of Central Florida, Orlando FL (March 24, 2011).
279. Invited speaker, Operation Research Peripatetic Postgraduate Programme, A EURO Conference for young OR researchers, Cadiz University, Spain (September 15 2011).
280. Invited speaker, Higher School of Economics, Moscow, Russia (October 5 2011).
281. Invited plenary speaker, BIOMAT 2011 conference, Santiago, Chile (Nov. 8, 2011).
282. Invited plenary speaker, Seminario Internacional de Energia (Aula Mayor IBC-PUCV), Valparaiso, Chile (Nov. 9, 2011).
283. Invited speaker, Higher School of Economics, Moscow, Russia (March 29 & April 4, 2012).

284. Invited plenary speaker, Cryptography Conference, Military Academy of Athens, Greece (April 6, 2012)
285. Invited speaker, London School of Economics, London (April 17, 2012).
286. Invited speaker, Middlesex University, London, (April 20, 2012).
287. Invited speaker, Hanyang University, Seoul, Korea (April 30, 2012).
288. Invited plenary speaker, 3rd Conference on Optimization Methods and Software, Chania, Greece (May 17, 2012).
289. Invited plenary speaker, Euler International Mathematical Institute, Saint-Petersburg, Russia (June 19, 2012).
290. Invited plenary speaker, Global Optimization 2012 (GOW2012), Natal, Brazil (June 26, 2012).
291. Invited plenary speaker, 10th EUROPT Workshop on Advances in Continuous Optimization, Siauliai, Lithuania (July 5, 2012).
292. Linkoping Institute of Technology, Sweden (Invited Colloquium speaker, Aug 13, 14, and 15, 2012).
293. invited Keynote speaker, 12th International Conference on Parallel Problem Solving From Nature - September 1-5, 2012 Taormina, Italy (September 4, 2012).
294. Invited speaker, Mathematical Institute, Serbian Academy of Sciences (October 3, 2012).
295. invited Keynote speaker, EURO Conference on Variable Neighborhood Search, Herceg Novi (Montenegro) October 4-7, 2012.
296. Invited speaker of the “Seminaire Pluridisciplinaire d’Optimisation de Toulouse (SPOT),” Toulouse, France (December 10 2012).
297. Invited speaker of the “Workshop on Clusters, orders, and trees”, Higher School of Economics, Moscow, Russia (December 13 2012).
298. Invited speaker, Computing Centre of the Russian Academy of Sciences, Moscow, Russia (December 14 2012).
299. Invited speaker, University of Catania, Italy (January 11, 2013).
300. Invited speaker, University of Toronto, Canada (February 8, 2013).
301. Invited speaker, AAAS Annual Meeting, Boston, USA (February 17, 2013).
302. Invited speaker, International conference on ”Systems & Optimization Aspects of Smart Grid Challenges 2013” Tuscon, USA (March 22, 2013).
303. Invited speaker, XIV HSE April International Academic Conference on Economic and Social Development, Higher School of Economics, Moscow, Russia (April 3, 2013).
304. Invited speaker, Universidade do Porto, Portugal (April 29, 2013).
305. Invited speaker, NATO Advanced Research Workshop on “Examining Robustness and Vulnerability of Critical Infrastructure Networks,” Kyiv, Ukraine (June 3, 2013)

306. Invited plenary speaker, International Conference on “Numerical Computations: Theory and Algorithms,” University of Calabria, Italy (June 19, 2013).
307. Invited plenary speaker, Conference on Discrete Optimization and Operations Research, Novosibirsk, Russia (June 24, 2013).
308. 2013 Euro Gold Medal 2013 Laureate Lecture, XXVI EURO - INFORMS Joint International Conference, Rome, Italy (July 1, 2013).
309. Invited Plenary Speaker, The 2013 World Congress on Global Optimization (WCGO 2013), China (July 9, 2013).
310. Invited Speaker, Hefei University of Technology, School of Management, China (July 11, 2013).
311. Invited Plenary Speaker, 1st Annual Meeting of the Mathematical Modeling and Optimization Institute, University of Florida Research Engineering and Education Facility, Shalimar, FL (July 30, 2013).
312. Invited Keynote Speaker, Metaheuristics International Conference (MIC 2013), Singapore (August 5, 2013).
313. Invited Plenary Speaker, International Conference on Applied Mathematics, Modeling and Computational Science (AMMCS-2013) (Waterloo, Ontario, Canada, August 29, 2013).
314. Invited Speaker, National Academy of Sciences of Ukraine, Kiev, Ukraine (Sept 12, 2013).
315. Invited Speaker, Laboratory of Algorithms and Technologies for Networks Analysis (LATNA), Higher School of Economics, Russia (Sept 16, 2013).
316. Invited Plenary Speaker, 2nd International Symposium & 24th National Conference on Operational Research, National Technical University of Athens, Greece (Sept 26, 2013).
317. Invited Keynote Speaker, 8th INFORMS Workshop on Data Mining and Health Informatics, October 5, 2013 (Minneapolis, MN).
318. Invited Speaker, Biomedical Engineering Department, Florida Institute of Technology, Melbourne FL October 18, 2013.
319. Invited Speaker, Distinguished Lecture Series, College of Engineering & Computer Science, University of Central Florida, Orlando (October 25, 2013).
320. Invited Speaker, Industrial Engineering Department, The University of Tennessee, Knoxville TN (November 15, 2013).
321. Invited Speaker, International Laboratory of Decision Choice and Analysis, National Research University, Higher School of Economics, Moscow Russia (December 3, 2013).
322. Invited speaker of the 91st meeting of the GOR working group “Real World Mathematical Optimization”, Bad Honnef, Germany (Dec 12, 2013).
323. Invited Keynote speaker at the Third UF SIAM Gators Student Conference, Gainesville FL (March 29, 2014).
324. Invited speaker at the Graduate Students & Faculty Relationships Workshop (College Station, TX) April 4-6, 2014.

325. Invited Keynote speaker at the 53rd Meeting of the Euro Working Group on Commodities and Financial Modelling (EWGCFM) and 2nd International Conference of the Research Centre for Energy Management (RCEM), Chania, Crete, (May 22, 2014).
326. Invited Keynote speaker at the Second International Conference on Information Technology and Quantitative Management (ITQM 2014), Higher School of Economics, Moscow, Russia, (June 5, 2014).
327. Invited speaker at the 3rd International Symposium & 25th National Conference on Operational Research, University of Thessaly in Volos, Greece, (June 27, 2014).
328. Invited speaker at the XVI Baikal International Triannual School-Seminar "Methods of Optimization and Their Applications," Olkhont, Baikal, Russia (July 7, 2014).
329. Invited speaker at the International Conference on OR for Development (ICORD 2014), Lleida, Spain (July 10, 2014).
330. Invited plenary speaker at the 2nd Annual Meeting of the AFRL Mathematical Modeling and Optimization Institute, Shalimar, FL (July 29, 2014).
331. Invited plenary speaker at the workshop "Mathematical and Applied Global Optimization 2014" (MAGO 2014), Escuela Tecnica Superior de Ingeniera Industrial Universidad dee Malaga, Spain (September 1, 2014).
332. Invited keynote speaker at the Information Technologies and Systems (ITaS) conference Nizhny Novgorod, Russia (September 4, 2014).
333. Invited speaker, Higher School of Economics, Russia (September 4, 2014).
334. Invited plenary speaker at the conference "Science of the Future" St. Petersburg (September 18, 2014).
335. Invited plenary speaker at the 2014 International Conference on Life System Modeling and Simulation (LSMS2014) and 2014 International Conference on Intelligent Computing for Sustainable Energy and Environment (ICSEE2014), Shanghai, China (September 22, 2014).
336. Invited speaker, School of Mechatronics and Automation, Shanghai University, Shanghai, China (September 25, 2014).
337. Invited speaker, Management Science and Engineering School, Hefei University of Technology, Hefei, China (September 26, 2014).
338. Invited speaker, Division of Optimization, Department of Mathematics, Linkopig University, Sweden (October 16, 2014).
339. Invited speaker, Business Administration and Industrial Engineering, Lulea University of Technology, Sweden (October 17, 2014).
340. Invited speaker, Industrial Engineering Department, Texas A & M University (Nov 24, 2014).
341. Invited speaker, School of Biological Science and Medical Engineering Beijing University, Beijing, China (Dec 16, 2014).
342. Invited speaker, Management Science and Engineering School, Hefei University of Technology, Hefei, China (Dec 18, 2014).

343. Invited Keynote speaker, 2014 2nd International Conference on Information Technology and Electronic Commerce (ICITEC 2014), Dalian, China (Dec 20, 2014).
344. Invited speaker, School of Management Science and Engineering, Dalian University of Technology, China (Dec 21, 2014).
345. Invited Honorary speaker, XVI April International Academic Conference on Economics and Social Development, National Research University - Higher School of Economics, Moscow, Russia (April 8, 2015).
346. Invited Speaker, Anhui University of Finance & Economics, Bengbu, China (April 36, 2015).
347. Invited Speaker, Hefei University of Technology, School of Management, China (April 30, 2015).
348. Invited Plenary speaker at the Energy, Sustainability and Climate Change (ESCC 2015), June 23, 2015, Crete, Greece.
349. Invited Plenary speaker at the 2nd International Conference on Dynamics of Disasters (DOD 2015), June 30, 2015, Calamata, Greece.
350. Invited EUROPT Fellow Lecture at the 13th EUROPT Workshop on Advances in Continuous Optimization (July8, 2015), Edinburgh, Scotland.
351. Invited talk at the Business School of the University of Strathclyde, Glasgow, Scotland (July 10, 2015).
352. Invited Keynote speaker at the International Congress on Systems Immunology, Immunoinformatics & Immune-computation - ICSI32015, Taorminia, Italy (July 17, 2015).
353. Invited Keynote speaker at the International Workshop on Machine learning, Optimization and big Data (MOD 2015), Taorminia, Italy (July 22, 2015).
354. Invited speaker at the 9th Russian Summer School in Information Retrieval (RuSSIR 2015), St. Petersburg, Russia (August 24, 2015).
355. Invited speaker at the Department of Economics, HSE, St. Petersburg, Russia (Sept. 3 , 2015).
356. Invited keynote speaker at the international conference (EMOS 15) Economics, Management and Optimization in Sports: New Perspectives, Reggio Calabria, Italy (Sept. 11, 2015).
357. Invited speaker at the Mediterranean University of Reggio Calabria, Italy (Sept. 12, 2015).
358. Invited speaker at the Mathematics Institute, Serbian Academy of Sciences, Belgrade, Serbia (Sept. 14, 2015).
359. Invited keynote speaker at the XLII international symposium on operations research (SYM-OP-2015), Silver Lake Resort, Serbia (Sept. 15, 2015).
360. Invited keynote speaker at the 7th International Conference on Information and Communication Technologies in Agriculture, Food and Environment (HAICTA 2015), Kavala, Greece (September 19, 2015).
361. Invited speaker at Stetson University, Florida (Sept. 30, 2015).
362. Invited Plenary speaker at the international conference Bringing Maths to Life, Naples, Italy (Oct. 20, 2015).

363. Invited Talk, Department of Computer Science and Operations Research, Bundeswehr University of Munich, Germany (Nov 11, 2015)
364. Invited plenary speaker at the International conference and school on “High-Performance Computing, Optimization and Applications,” Lobachevsky State University of Nizhni Novgorod, Russia (Nov 16, 2015).
365. Invited talk, Mathematical Sciences, Clemson University (Dec. 1 2015).
366. Invited Plenary speaker at The 6th International Conference on Optimization and Control with Applications (OCA 2015), Changsha University of Science & Technology, Changsha, China (Dec 13, 2015).
367. Invited speaker at the Hefei Institute of Technology, China (Dec 15, 2015).
368. Invited speaker, National Research University - Higher School of Economics, Moscow, Russia (Dec 22, 2015).
369. Invited plenary speaker, 32nd Southern Biomedical Engineering Conference, Shreveport, Louisiana, (March 12, 2016).
370. Invited speaker, Colorado School of Mines, Division of Economics and Business (March 25, 2016).
371. Invited speaker, Industrial and Systems Engineering Department, Ohio University, Athens Ohio (April 15, 2016).
372. Invited Plenary speaker at the Workshop on Critical and collective effects in graphs and networks, Moscow, Russia (April 28, 2016).
373. Invited Colloquium speaker, Linkoping Institute of Technology, Sweden (June 1, 2016).
374. Invited Keynote speaker, The 19th European Conference on Mathematics for Industry (EMCI 2016), Santiago de Compostela, Spain (June 14, 2016).
375. Invited Keynote speaker, Numerical Computations: Theory and Algorithms (NUMTA 296), Club Med Resort, Napitia, Pizzo Calabro, Calabria, Italy (June 20, 2016)
376. Invited Plenary speaker at the 3rd International Conference on Energy, Sustainability, and Climate Change, Marathon, Greece (July 14, 2016).
377. Invited Keynote speaker, IEEE World Smart World Congress, Toulouse, France (July 20, 2016).
378. Invited Plenary speaker at the 10th International Conference on Optimization: Techniques and Applications (ICOTA 2016), Ulaanbaatar. Mongolia (July 23, 2016).
379. Invited Plenary Speaker, (MOD 2016) The 2nd International Workshop on Machine Learning, Optimization and big Data (Aug 28, 2016), Volterra, Tuscany, Italy.
380. Invited Plenary Speaker, (CO 2016) International Symposium on Combinatorial Optimization (Sept 1, 2016), Kent University, England.
381. Invited Plenary Speaker at the XIII Global Optimization Workshop (GOW 2016), Braga, Portugal (Sept 5, 2016).

382. Invited Plenary Speaker, (DOOR 2016) International Conference on Discrete Optimization and Operations Research (Sept 20, 2016), Vladivostok, Russky Island, Russia.
383. Invited plenary speaker, (CSPA 2016) Conference on Sports and Performance Analytics, Korea National Sport University, Seoul Korea (Oct 22, 2016).
384. Invited speaker, Department of Computing, Imperial College, London, England (Nov 3 2016).
385. Invited plenary speaker, International Conference on Operations Research and Optimization: Big Data and Smart Industry, Institute of Industrial Engineering & Logistics Optimization, Northeastern University, China (Dec 5, 2016).
386. , Invited speaker, Hefei University of Technology, China (Dec. 8, 2016).
387. Invited speaker at the Winter School on Data Analytics, Higher School of Economics, Nizhny Novgorod, Russia (Dec. 18, 2016).
388. Invited speaker at the 3rd Russian Economics Congress, Moscow State University, Russia (Dec. 21, 2016).
389. Invited Plenary speaker at the Global Optimization Conference (GOC-2017), Texas A&M University (March 30, 2017).
390. Invited speaker at the HCM workshop “Nonsmooth Optimization and its Applications”, 15-19 May 2017, Bonn, Germany.
391. Invited speaker at the conference Constructive Nonsmooth Analysis and Related Topics, (May 22-27, 2017) Euler International Mathematical Institute, St. Petersburg, Russia.
392. Invited plenary speaker at the 6th International Symposium & 28th National Conference on Operational Research “OR in the digital era - ICT challenges”, Thessaloniki, Greece (June 8, 2017).
393. Invited speaker at the 4th International Conference on Energy, Sustainability and Climate Change <http://www.escc2017.com/> June 12-14, 2017, Santorini, Greece.
394. Invited Plenary speaker at the LION11 June 19-21, 2017 Nizhny Novgorod, Russia <http://intelligent-optimization.org/lion11/>
395. Invited speaker at the Internatioal Conference on Approximation and Optimization: Algorithms, Complexity, and Applications (Athens, Greece, June 22, 2017).
396. Invited Plenary speaker at the International Conference on Data Driven Smart Manufacturing, Hefei, China (July 26, 2017).
397. Invited speaker at the 5th Annual meeting of the AFRL Mathematical Modeling and Optimization Institute (Reef, Shalimar FL, Aug 3 2017) https://mmo.institute/annual_meeting.html
398. Invited speaker at the Amazon Research Scientist Summit 2017, Semiahmoo, Seattle (August 29, 2017).
399. Invited keynote speaker at the International Conference on Machine Learning, Optimization, and Big Data (MOD 2017), Volterra, Tuscany Italy (September 15, 2017).
400. Invited speaker at the Mechanical and Industrial Engineering Department, Northeastern University, Boston (October 13, 2017).

401. Invited keynote speaker at the 12th Informs Workshop on Data Mining and Decision Analytics, Houston (October 21, 2017).
402. Invited speaker at the 17th International Symposium on Mathematical and Computational Biology, Institute of Numerical Mathematics, Russia Academy of Sciences, Moscow (November 1, 2017).
403. Invited Speaker, Hefei University of Technology, School of Management, China (Dec 13, 2017)
404. Invited Plenary Speaker, IARAS International Conference on Natural Sciences, Athens, Greece (Dec 30, 2017).
405. Invited Keynote Speaker at the “Sustainable Energies 2018” Conference (March 30, 2018, Orlando, Florida)
406. Invited speaker, Industrial Engineering and Management Systems Department, University of Central Florida (March 30, 2018, Orlando, Florida)
407. Invited speaker at the Amazon Research, Seattle (April 26, 2018).
408. Invited Keynote speaker at the Interanational Top-level Forum on Engineering Science and Technology- Intelligent Manufacturing and Engineering Management, Chinese Academy of Sciences, Hefei China (May 7, 2018).
409. Invited speaker at the conference on Intelligent Manufacturing Systems Eneengineering, Hefei University of Technology, School of Management, China (May 8, 2018).
410. Invited Plenary Speaker at the 7th International Conference on Multidimensional Finance, Insurance and Investment, Chania, Greece (May 10, 2018).
411. Invited Plenary Speaker at the Workshop on Graphs, Networks and their Applications, Moscow Institute of Physics and Technology (May 15, 2018)
412. Invited Plenary Speaker at the BALCOR 2018 (XIII Balkan conference on Operations Research, Belgrade (May 27, 2018).
413. Invited Plenary Speaker at the International Conference on Sports, Russian State University of Physical Education, Sport, Youth and Tourism (SCOLIPE) (May 30, 2018).
414. Invited Plenary Speaker at the International Conference on Energy, Sustainability and Climate Change (ESCC 2018), Mykonos, Greece (June 5, 2018).
415. Invited Plenary Speaker at the Workshop on Modern Optimization and Applications, Chinese Academy of Sciences, Beijing, China (June 17, 2018).
416. Invited Speaker at the Department of Industrial Engineering, Tsinghua University, Beijing, China (June 19, 2018).
417. Invited Speaker at the Economics Department, Geosciences University, Beijing, China (June 20, 2018).
418. Invited Speaker at the Biomedical Engineering Department, Beihang University, Beijing, China (June 21, 2018).
419. Invited Plenary speaker at the 7th International Conference ”Optimization Problems and Their Applications” (OPTA’2018), Omsk, Russia (July 10, 2018).

420. Invited speaker at the International Advanced Course on Data Science & Machine Learning, Certosa di Pontignano (Siena) Tuscany, Italy (July 20 and 22, 2018).
421. Invited plenary speaker at the Optimization and Decision Science Conference (ODS 2018), Taormina, Italy, September 10-13, 2018 [www.airoconference.it/ods2018]
422. Invited plenary speaker at the 42nd Annual Meeting of the AMASES, Association for Mathematics Applied to Social and Economic Sciences Napoli, Italy (September 13-15, 2018) [<http://amases2018.uni>]
423. Invited plenary speaker at the Fourth International Conference on Machine Learning, Optimization, and Data Science Volterra, Tuscany, Italy, September 13-16, 2018 [<https://lod2018.icas.xyz/>]
424. Invited plenary speaker at the 14th International Workshop on Global Optimization (LeGO 2018), Leiden, The Netherlands, Sept. 18- Sept. 21, 2018 [<http://www.globaloptimization.org/>]
425. Invited Plenary speaker at the IX International Conference Optimization and Applications (OPTIMA-2018), Petrovac, Montenegro (Oct 1, 2018).
426. Invited Plenary talks at the International Conference on Variable Neighborhood Search (ICVNS 2018), Sithonia, Halkidiki, Greece (Oct. 5, 2018).
427. Invited Plenary speaker at the 7th International Conference on Systems and Control (ICSC 2018), Universitat Politècnica de València, Spain (Oct 24, 2018).
428. Invited speaker at “Data and Decisions”, Nov 1, 2018, Tucson, Arizona.
429. Invited speaker at the University of Naples, Italy (Dec 10, 2018).
430. Invited speaker at the Italian National Research Council, Naples Italy (Dec 11, 2018).
431. Invited Speaker at the Los Alamos National Laboratory’s (LANL) 3rd Grid Science Winter School and Conference, January 7-11, 2019 (Santa Fe, New Mexico).
432. Invited speaker, Industrial and Systems Engineering, Texas A & M University (March 22, 2019).
433. Invited colloquium speaker, Aristotle University of Thessaloniki, Greece (April 4, 2019).
434. Honorary Invited speaker at the XX April International Academic Conference On Economic and Social Development, National Research University Higher School of Economics, Moscow Russia (April 11, 2019)
435. Invited speaker, 13th Lion (Learning and Intelligent Optimization Conference), May 30, 2019, Chania, Crete, Greece.
436. Invited speaker, 6th International Conference on Energy, Sustainability, and Climate Change, June 4, 2019, Chania, Crete, Greece.
437. Invited speaker, World Congress on Global Optimization, July 8, 2019, Metz, France.
438. Invited speaker, Karlsruher Institut für Technologie (KIT), Karlsruhe, Germany (July 22, 2019).
439. Invited Plenary Speaker at the Annual Operations Research Conference (OR61) of the British OR Society, Kent University, England (September 4, 2019).

440. Invited Plenary Speaker at the Fifth International Conference on Machine Learning, Optimization, and Data Science (LOD 2019)– September 10-13, 2019 – Certosa di Pontignano, Siena – Tuscany, Italy.
441. Invited Speaker at the ISE Department, Khalifa University (January 20, 2020)
442. Invited speaker at the Energy Institute, Texas A&M University (February 7, 2020)
443. Invited plenary speaker at the Energy-2020 international conference <https://energy-conferences.com/keynote-speakers> Febr 18, 2020 Houston TX
444. Invited Distinguished seminar speaker at Florida international University (Feb 28, 2020).
445. Invited plenary speaker at the Fifty first Southeastern International Conference on Combinatorics, Graph Theory, and Computing (SEICCGTC), Boca Raton FAU conference March 9-13, 2020 <http://www.math.fau.edu/combinatorics2020/>

CONFERENCE ORGANIZER:

Chairman and Workshop Organizer for the Workshop on “Complexity Issues for Numerical Optimization” (with S. Vavasis), Cornell Univ. (March 1991).

Chairman and Conference Organizer for the Conference on “Recent Advances on Global Optimization” (with C. Floudas), Princeton Univ. (May 1991).

-

Chairman and Conference Organizer for the Conference on “Large Scale Optimization” (with W. Hager & D. Hearn), University of Florida (February 1993).

Chairman and Workshop Organizer for the Workshop on “The Quadratic Assignment Problem” (with H. Wolkowicz), Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), (May 1993).

-

Chairman and Workshop Organizer for the Workshop on “Parallel Processing of Discrete Optimization Problems” (with M. Resende and K. G. Ramakrishnan), Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), (April 1994).

-

Chairman and Workshop Organizer for the Workshop on “Global Minimization of Nonconvex Energy Functions: Molecular Conformation and Protein Folding” (with D. Shalloway and G. Xue), Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), (March 1995).

Chairman and Workshop Organizer for the Conference on “State of the Art in Global Optimization: Computational Methods and Applications” (with C.A. Floudas), Princeton University, (April 1995).

-

Chairman and Conference Organizer for the Conference on “Network Optimization” (with W. Hager & D. Hearn), University of Florida (February 1996).

Chairman and Workshop Organizer for the Workshop on “Satisfiability Problems: Theory and Applications” (with DingZhu Du and Jun Gu), Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), (March 1996).

Chairman and Workshop Organizer for the Workshop on “Semidefinite Programming and Interior-Point Approaches for Combinatorial Optimization Problems” (with H. Wolkowicz), FIELDS Institute (May 15-17, 1996).

-

Chairman and Conference Organizer for the Conference on “Optimal control: theory, algorithms, and applications” (with W. Hager), University of Florida (February 1997).

Chairman and Workshop Organizer for the Workshop on “Network Design: Connectivity and Facilities Location” (with DingZhu Du), Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), April 28-30, Princeton, March 1997).

Chairman and Workshop Organizer for the Workshop on “Parallel Processing of Discrete Problems” Institute for Mathematics and Applications, Minneapolis MN (May 12-16, 1997).

Chairman and Workshop Organizer for the Workshop on “Randomization Methods in Algorithm Design” (with Sanguthevar Rajasekaran and Jose Rolim), Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), Dec. 12-14, 1997 - Princeton University).

-

Chairman and Workshop Organizer for the Workshop on “Multichannel Optical Networks: Theory and Practice” (with DingZhu Du and Peng-Jun Wan), Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), March 16-19, 1998 - DIMACS Center).

Chairman and Workshop Organizer for the “Workshop on Randomized Parallel Computing” (with Sanguthevar Rajasekaran), 12th IEEE International Parallel Processing Symposium (April 3, 1998, Orlando Florida).

Chairman and Organizer for the conference on “Combinatorial and Global Optimization”, May 25-29, 1998, Chania, Crete, Greece.

Chairman for the “International Symposium on Operations Research and its Applications (ISORA’98)” (with X. Zhang, D.-Z. Du, and G. Yu), Kunming, China, August 20-22, 1998.

-

Chairman and Conference Organizer for the conference on “Approximation and Complexity in Numerical Optimization: Continuous and Discrete Problems” February 28 - March 2, 1999, Center for Applied Optimization, University of Florida.

Chairman and Conference Organizer for the conference on “Optimization in Computational Chemistry and Molecular Biology: Local and Global Approaches” (with C. Floudas) (Princeton University, May 7-9, 1999).

Chairman and Workshop Organizer for the Workshop on “Mobile Networks and Computing” (with Badri R. Badrinath, Frank Hsu and Sanguthevar Rajasekaran), Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), March 25-27, 1999 - DIMACS Center).

Conference Organizer for the “Workshop on Global Optimization (GO.99)” (with Marco Locatelli, Reiner Horst, and Fabio Schoen), Firenze, Italy (Sep 28 - Oct 2, 1999 <http://www.dsi.unifi.it/go.99>)

Chairman and Workshop Organizer for the Workshop on “Discrete Mathematical Problems with Medical Applications” (with Ding-Zhu Du and Jie Wang), Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), Dec. 8-10, 1999 - DIMACS Center).

-

Chairman and Organizer for the conference on “Stochastic Optimization: Algorithms and Applications” (with S. Uryasev), February 20-22, 2000, Center for Applied Optimization, University of Florida.

Chairman and Organizer for the conference on “Recent advances in non-differentiable optimization” (with N. Shor) May, 15-18 Kyiv, Ukraine (Joint initiative of the V.M. Glushkov Institute of Cybernetics of the National Academy of Sciences of Ukraine and University of Florida).

Chairman and Organizer for the conference on “Advances in Convexity and Global Optimization” (with N. Hadjisavas), June 5-9, 2000 - Pythagorion, Samos, Greece.

Chairman and Organizer for the workshop on “Cooperative Control and Optimization ” (with R. Murphey), Dec 3 - 5, 2000, Center for Applied Optimization, University of Florida.

-

Chairman and Organizer for the “International Conference on Biocomputing” (with J. Principe and

S. Rajasekaran), February 25-27, 2001, Center for Applied Optimization, University of Florida.

Chairman and Organizer for the workshop on “Novel Approaches to Hard Discrete Optimization” (with Kurt Anstreicher, Franz Rendl, Tony Vannelli, and Henry Wolkowicz), April 26-28, 2001, Fields Institute.

Chairman and Organizer for the conference om “Financial Engineering, Supply Chain, and E-commerce (FEES2001)”, May 25-27, 2001, Athens, Greece.

Chairman and Organizer for the conference om “Optimization and Industry” (with V. Korotkich), July 1-6, 2001, Great Keppel Island, Queensland, Australia.

Chairman and Organizer for the workshop on “Cooperative Control and Optimization ” (with R. Murphey and S. Butenko), Nov. 12-14, 2001, Center for Applied Optimization, University of Florida.

-

Chairman and Co-Organizer for the workshop on “Supply Chain and E-commerce” (with J. Geunes et al.), Febr. 26 - March 1, 2002, Center for Applied Optimization, University of Florida.

Chairman and Co-Organizer for the “International Conference on Financial Engineering, e-Commerce, Supply Chain, and Strategies of Development (FEES2001)” (Athens, June 10-12, 2002).

Chairman and Co-Organizer for the “International Conference on Optimization and Optimal Control”, August 13-17, 2002 , Ulaanbaatar, Mongolia

Chairman and Co-Organizer for the workshop on “Cooperative Control and Optimization ” (with R. Murphey and S. Butenko), Dec. 4-6, 2002, 2001, Center for Applied Optimization, University of Florida.

-

Chairman and Co-Organizer for the conference on “Quantitative Neurosciences: Models, Algorithms, Diagnostics, and Therapeutic Applications”, February 5-7, 2003. University of Florida.

Chairman and Co-Organizer for the conference on “Supply Chain Optimization”, February 27 - March 1, 2003. University of Florida.

Chairman and Co-Organizer for the workshop on “Computational Management Science, Economics, Finance, and Engineering”, March 28-30, 2003. Limassol, Cyprus.

Chairman and Co-Organizer for the “World Congress on Optimization and Economics of Sports”, May 14 - 16, 2003. Barcelona, Spain.

Chairman and Co-Organizer for the “International Conference on Computational Management Science”, May 27-30, 2003. Almyrida Beach, Chania, Crete, Greece.

Chairman and Co-Organizer for the “4-th International Conference on Frontiers in Global Optimization”, June 8-12, 2003. Santorini, Greece.

Chairman and Co-Organizer for the conference on “Cooperative Control and Optimization”, November 19-21, 2003. Destin, Florida, USA.

-

Chairman and Organizer for the conference on “Data Mining Techniques in Biomedicine”, February 16-18, 2004. University of Florida.

Chairman and Co-Organizer for the conference on “Multiscale Optimization Methods and Applications”, February 26-28, 2004. University of Florida.

Chairman and Co-Organizer for the conference on “3rd Annual Supply Chain Optimization Conference”, February 28 - March 1, 2004. University of Florida.

Chairman and Co-Organizer for the conference on “Computational Management Science Conference and Workshop on Computational Econometrics and Statistics”, April 2-5, 2004. Neuchatel, Switzerland.

Chairman and Co-Organizer for the conference on “Robust Optimization-Directed Design”, April 19-21, 2004. University of Florida’s Graduate and Research Center at Shalimar, Florida, USA.

Chairman and Co-Organizer for the conference on “High Performance Algorithms and Software for Nonlinear Optimization”, June 18-20, 2004. Island of Ischia, Italy.

-

Chairman and Co-Organizer for the conference on “Cooperative Control and Optimization”, January 20-22, 2005. University of Florida.

Chairman and Organizer for the conference “Systems Analysis, Data Mining and Optimization in Biomedicine”, February 2-4, 2005. University of Florida.

Chairman and Co-Organizer for the conference “4rd Annual Supply Chain Optimization Conference”, February 25 - 27, 2005. Cocoa Beach, Florida.

Chairman and Organizer for the conference “International Conference on Computational Management Science”, March 31 - April 3, 2005. University of Florida.

Chairman and Co-Organizer for the “International Workshop Multilevel Optimization : Algorithms and Applications”, May 15 - 17, 2005. Chania, Crete, Greece.

Chairman and Co-Organizer for the “International Workshop on Metaheuristics for Large Scale Optimization”, May 19-21, 2005, Vilnius, Lithuania.

Chairman and Co-Organizer for the “International Conference on Control and Optimization with Industrial Applications”, May 22-25, 2005, Baku, Azerbaijan.

Chairman and Co-Organizer for the “International Workshop on Optimization in Medicine”, July 20-22, 2005. Coimbra, Portugal.

Chairman and Co-Organizer for the “International Workshop on Global Optimization”, September 18-22, 2005. Almería Spain.

-

Chairman and Co-Organizer for the 6th conference on “Cooperative Control and Optimization”, February 1-3, 2006, University of Florida.

Chairman and Co-Organizer for the conference “5th Annual Supply Chain Optimization Conference”, February 25 - 26, 2006, University of Florida.

Chairman and Organizer for the conference “Data Mining, Systems Analysis and Optimization in Neuroscience”, February 15-17, 2006, University of Florida.

Chairman and Co-Organizer for the DIMACS Workshop on “Clustering Problems in Biological Networks”, May 9 - 11, 2006. DIMACS Center, Rutgers University.

Chairman and Co-Organizer for the International Conference on “Dynamics of Disasters”, October 5-7, 2006, Athens, Greece.

Chairman and Co-Organizer for the Workshop on “Data Mining and Mathematical Programming”, October 10-13, 2006. Centre de recherches mathématiques.

-

Chairman and Co-Organizer for the “7th International Conference on Cooperative Control and Optimization”, January 31 - February 2, 2007. University of Florida.

Chairman and Co-Organizer for the “6th Annual Florida Supply Chain Conference”, February 16-17, 2007. University of Florida.

Chairman and Co-Organizer for the “2nd International Conference on Complementarity, Duality,

and Global Optimization in Science and Engineering”, February 28 - March 2, 2007. University of Florida, Gainesville, FL.

Chairman and Co-Organizer for the “Data Mining, Systems Analysis and Optimization in Biomedicine”, March 28-30, 2007. University of Florida, Gainesville, FL.

Chairman and Co-Organizer for the “Workshop on Global Optimization: Methods and Applications”, May 11-12, 2007. Fields Institute.

Chairman and Co-Organizer for the “Power Systems Modeling Conference”, June 5, 2007. Plaza Resort Hotel, Athens, Greece.

Chairman and Co-Organizer for the “5th International Conference on Advances in Global Optimization: Methods and Applications”, June 13 - 17, 2007. Myconos, Greece.

Chairman and Co-Organizer for the “2nd International Conference on Optimization and Optimal Control”, July 17 - 20, 2007. Ulaanbaatar, Mongolia.

Chairman and Co-Organizer for the “International Conference on Nonconvex Programming: Local and Global Approaches”, December 17 - 21, 2007. Rouen, France.

-

Chairman and Co-Organizer for the “8th International Conference on Cooperative Control and Optimization”, January 30 - February 1, 2008. University of Florida, Gainesville, FL.

Chairman and Co-Organizer for the “Conference on Computational Neuroscience”, February 20-21, 2008. Gainesville, Florida.

Chairman and Co-Organizer for the “World Congress on Global Optimization in Engineering and Science”, July 1 - 5, 2008. Hunan, China.

Chairman and Co-Organizer for the “International Workshop on Stochastic and Applied Global Optimization (Sago 2008)”, July 19 - 22, 2008. Berg en Dal, South Africa.

“World Congress on Global Optimization in Engineering and Science” (July 1 - 5, 2009. Hunan, China) Organized by Shu-Cherng Fang, Chris Floudas, David Yang Gao, Panos M. Pardalos and Shouyang Wang

“DIMACS/DyDAn Workshop on Approximation Algorithms in Wireless Ad Hoc and Sensor Networks” (22-24 April 2009, Rutgers University, Piscataway, NJ) Organized by Ding-Zhu Du and Panos Pardalos

“Power Systems Modelling 2009” (18-21 March 2009, University of Florida, Gainesville, Florida) Organized by Niko A. Iliadis, Mario Pereira, Luiz-Augusto Barroso, Panos Pardalos and Steffen

Rebenneck

“International Conference on the Dynamics of Information Systems” (28-30 January 2009, University of Florida, Gainesville, Florida) Organized by Panos Pardalos, Robert Murphey and Michael J. Hirsch

“International Conference Discovering, Mining and Managing Complex Agricultural Data” (July 1-3, 2010, Crete, Greece) Organized by Panos M. Pardalos, George Bourakis, and Petraq Papajorgji

“International Conference on Biomedical Data & Knowledge Mining: Towards Biomarker Discovery” (July 7 - 9, 2010. Chania, Crete, Greece) Organized by Panos M. Pardalos, Michalis Zervakis and Petros Xanthopoulos

“International Conference on Optimization, Simulation and Control” (July 25-28, 2010. Ulaanbaatar, Mongolia) Organized by Rentsen Enkhbat, Altannar Chinchuluun, Panos M. Pardalos, Wolfram-M. Lippe and Stratos Pistikopoulos

“International Conference on Systems Analysis Tools for Better Health Care Delivery: A New Engineering Health Care Partnership) (March 24 - 26, 2010. Gainesville, Florida) Organized by Panos M. Pardalos and Britta Neugaard

“Energy, Sustainability and Climate Change” (February 26 - 28, 2010, University of Florida, Gainesville, Florida) Organized by Panos M. Pardalos

“2nd International Conference on the Dynamics of Information Systems” (February 3-5, 2010, Destin, Florida) Organized by Panos M. Pardalos, Vladimir Boginski, and Robert Murphey

Conference Committees and Advisory Boards:

Cluster Chairman of “Decision and Support Systems” (ORSA/TIMS Joint National Meeting, Nashville, May 12-15, 1991).

Cluster Chairman of “Global Optimization” (ORSA/TIMS Joint National Meeting, Phoenix, AZ, Oct. 31- Nov.3, 1993).

Cluster Chairman of “Global Optimization” (ORSA/TIMS Joint National Meeting, Boston, April 24 -27, 1994).

Cluster Chairman of “Global Optimization” (INFORS Joint National Meeting, Montreal, April 26-29, 1998).

Cluster Chairman of “Global Optimization” (INFORS Joint National Meeting, Seattle, Oct. 25-28, 1998).

Member of the International Advisory Committee for the 15th International Symposium on Mathematical Programming (University of Michigan, Aug. 15-19, 1994).

Member of the Program Committee for the 3th Workshop on Global Optimization (Szeged, Hungary, Dec. 10-14, 1995).

Cluster Chairman of “Global Optimization” (INFORS Joint National Meeting, Atlanta, Nov. 3-6 , 1996).

Member of the International Advisory Committee for the 16th International Symposium on Mathematical Programming (Lausanne, Aug. 24-29, 1997).

Member of the Advisory Committee of the DIMACS Workshop on “Network Switching” (July 7-9, 1998 - Princeton).

Member of the International Organizing Committee of the “NATO Advanced Research on Workshop Large Scale Computations in Air Pollution Modelling (ENVIR.ARW 971731)”, Sofia, Bulgaria (July 6-10 1998).

Program Committee Member of ICCI'96 Conference.

Member of the Scientific Advisory Board of the “DIMACS Special Year 1996-2000 on Networks”.

Member of the Program Committee of the Workshop “Solving Combinatorial Optimization Problems in Parallel” (April 5, 1997 - Geneva, Switzerland).

Member of the International Program Committee of the conference “Third International Conference on DISTRIBUTED COMPUTER COMMUNICATION NETWORKS (DCCN'99), Theory and Applications” (November 9 - 13, 1999, Tel-Aviv, Israel).

Member of the Program Committee of the conference “NP-completeness and Parallelism” (JIM'99, I.U.T. de Metz, France - May 17-19, 1999).

Member of the Program Committee of the “12th International Conference on Optimization Methods and Their Applications” (Baikal, July-August 2001).

Member of the Program Committee of the “International Conference on Production System Design, Supply Chain Management and Logistics (Miedzyzdroje, Poland, October 23-25, 2002).

Member of the International Advisory Committee of the “ICM -2002 (Control and Optimization)”, Xian, China, Aug. 30 - Sept. 1, 2002).

Member of the Program Committee of the conference on “Mathematical Methods for Learning: Advances in data mining and knowledge discovery”, June 21-24 2004, Villa Geno, Como, Italy .

Member of the Program Committee of the “The First International Conference on Algorithmic Applications in Management” , June 22-25, 2005, Xi'an, Shaanxi, China.

Member of the Program Committee of the “13th Baikal International Conference on Optimization Methods and Their Applications”, Irkutsk-Severobaikalsk, Russia, July 2-8, 2005.

Member of the Program Committee of the “3rd world conference on Computational Statistics & Data Analysis”, Limassol, Cyprus, 28-31 October, 2005.

Member of the Program Committee of the “18th EURO Mini-Conference on the theme Variable Neighbourhood Search”, Teneriffe, Spain, 23 to 25 November 2005.

Member of the International Program Committee of the “The IASTED International Conference on Computational and Systems Biology (CASB 2006)”, November 13-15, 2006, (Dallas, Texas, USA).

Member of the International Program Committee of the “4th International Conference on Compu-

tational Management Science,” 20-22 April 2007, Geneva.

Member of the International Program Committee of the “4th International Conference on Informatics, Control and Robotics (ICINCO 2007),” 9-12 May 2007, Angers, France.

Member of the International Program Committee of the “Learning and Intelligent Optimization (LION 2007 II),” December 8-13, 2007, Trento, Italy.

Member of the International Program Committee of the “XIV-th Baikal International School-Seminar on Methods of Optimization and Their Applications),” Severobaikalsk, Siberi (July 1-8, 2008).

Member of the International Scientific Committee of EngOpt 2008 (International Conference on Engineering Optimization, Rio de Janeiro, Brazil, June 1-5, 2008).

Member of the Program Committee of the INFORMS Optimization Society 2008 Conference March 14 - March 16, 2008 “Theory, Computation, and Emerging Applications.”

Chair-committee member of The AMERICAN COMPUTING CONFERENCE 2008 (MIT, Cambridge, USA) April 21-23, 2008.

Member of the International Scientific Committee of The Second International Conference on Non-linear Programming with Applications (7 - 9 April, 2008, Academy of Mathematics and Systems Science (AMSS), Beijing, China).

Member of the International Scientific Program Committee of 2008 IEEE International Conference on Granular Computing (IEEE GrC 08), Hangzhou, China, (Aug 26-28, 2008).

Member of the International Scientific Program Committee of International Conference on Computational Biology and Bioinformatics (CBB 2008), Orlando, Florida, USA (November 16-18, 2008).

Member of the International Scientific Program Committee of the conference on “Learning and Intelligent Optimization - LION 3” (January 14-18, 2009) Trento, Italy.

Member of the International Scientific Program Committee of the “Symposium on Experimental Algorithms SEA 2009” (June 3 - 6, 2009) Dortmund, Germany.

Member of the International Scientific Program Committee of the “th International Conference on Applied Mathematics, Simulation, Modelling (ASM’10)” (Silicon Valley, California, USA, Aug 14-16, 2010).

Area Chair of Systems Biology/Modeling for Biomedical Systems/ Biological Networks of the “10th IEEE International Conference on Bioinformatics and Bioengineering (BIBE-2010)” (Jefferson University, Philadelphia, USA, May 31 - June 3, 2010).

Member of the International Scientific Program Committee of the “2010 IEEE International Conference on Granular Computing (GrC)” (Silicon Valley, California, USA, Aug 14-16, 2010).

Member of the International Scientific Program Committee of the “10th International Conference on

Parametric Optimization and Related Topics (paraoptX)” (Karlsruhe, Germany, September 20 - 24, 2010).

Member of the International Scientific Program Committee of the “2010 IEEE International Conference on Granular Computing (GrC)” (Silicon Valley, California, USA, Aug 14-16, 2010).

Member of the International Scientific Program Committee of the “The International Conference on Optimization: Techniques and Applications (ICOTA)” (Shanghai, China, December 10-13, 2010).

Member of the International Scientific Program Committee of 3rd International Conference of the Financial Engineering and Banking Society (F.E.B.S) - “Financial Regulation and Systemic Risk,” [<http://www.rcem.eu/febs2013>], June 6-8, 2013, Paris.

Member of the International Scientific Program Committee of The 2013 International Conference on Energy, Environment, Ecosystems and Development (EEED 2013) [<http://www.europment.org/conf2013/eed.html>], July 16-19, 2013, Rhodes, Greece.

Member of the International Scientific Program Committee of The 2013 International Conference on E-Business (ICE-B 2013) [<http://www.ice-b.icete.org/?y=2013>], July 29- 31, 2013, Reykjavik, Iceland.

Member of the International Scientific Program Committee of “Modern Informatics: Problems, Achievements, and Prospects of Development,” (devoted to the 90th anniversary of academician V. M. Glushkov). [<http://inform.icybcluster.org.ua/home>], September 12-13, 2013 (Kiev, Ukraine).

Member of the International Scientific Program Committee of “2013 International Conference on Business Administration, Marketing and Economics (BAME 2013),” [<http://www.europment.org/library/2013/venice/100000.pdf>], September 28-30, 2013 (Venice, Italy).

Member of the International Scientific Program Committee of “The Seventh International Conference on Management Science and Engineering Management,” [<http://www.icmsem.org/>], November 5-7, 2013 (Tokyo, Japan).

Member of the International Scientific Program Committee of “The 2014 International Conference on Economics, Management and Development (EMD 2014),” [<http://www.europment.org/conferences/2014/interlaken>], Interlaken, Switzerland, February 22-24, (2014).

Member of the International Scientific Program Committee of “ESG 2014 - THE 2014 INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE AND GEOSCIENCE,” [<http://www.igras.ru/news/>], Venice, Italy, March 15-17, (2014).

Member of the International Scientific Program Committee of “2014 International Conference of the Financial Engineering and Banking Society (FEBS),” [<http://ocs.som.surrey.ac.uk/index.php/FEBS2014/FEBS2014>], University of Surrey, England (June 21 - 23, 2014).

Member of the International Scientific Program Committee of “16th Baikal International Triannual School-Seminar Methods of Optimization and Their Applications,” [<http://sei.irk.ru/conferences/mopt2014/en/org>], 30th of June - 6th of July 2014, Olkhon, Baikal, Russia.

Member of the International Scientific Program Committee of “The Third International Conference on Data Analytics” [<http://www.iaria.org/conferences2014/ComDATAANALYTICS14.html>], August 24 - 28, 2014 - Rome, Italy.

Member of the International Scientific Program Committee of The 2014 International Conference on E-Business (ICE-B 2014) [<http://ice-b.icete.org/>], August 28-30, 2014, Vienna, Austria.

Member of the International Scientific Program Committee of 18th International Conference on Circuits, Systems, Communications and Computers (CSCC 2014) [<http://www.csc14.org/committee.html>], Santorini Island, Greece, July 17-21, 2014.

Member of the International Scientific Program Committee of NumAn 2014, Sixth Conference in Numerical Analysis [<http://numan2014.amcl.tuc.gr/committees.php>], Chania, Crete, Greece, September 2-5, 2014.

Member of the International Scientific Program Committee of 2014 Intl. Conference in Soft Computing & Machine Intelligence (ISCMi 2014), [<http://www.iscmi.us/com.php>], New Delhi, India, September 26-27, 2014.

Member of the International Scientific Program Committee of The 3rd CSoNet 2014 : 3rd Workshop on Computational Social Networks, [<http://csonet14.vcu.edu/>], Maui, Hawaii, Dec 19, 2014 - Dec 21, 2014.

Member of the International Scientific Program Committee of the International Conference on Operations Research and Enterprise Systems (ICORES), [<http://www.icores.org/>] January 10-12, 2015 (Lisbon, Portugal).

Member of the International Scientific Program Committee of The 2015 International Conference on Pure Mathematics - Applied Mathematics, [<http://www.europment.org/conferences/2015/vienna/pm-am.htm>] Vienna, Austria, March 15-17, 2015.

Member of the International Scientific Program Committee of the International Conference on Industrial Engineering, Management Science and Applications 2015 (ICIMSA2015), [<http://icimsa.org/>] May 26-28, 2015 Tokyo, Japan.

Member of the International Scientific Program Committee of the 12th International Conference of Young Scientists on Energy Issues, [<http://www.cyseni.com/en/>] May 27-28, 2015, Lithuanian Energy Institute, Kaunas, Lithuania.

Member of the International Scientific Program Committee of the 5th International Conference of the Financial Engineering and Banking Society (F.E.B.S) [<http://aaahq.org/calls/CallForPapers5thInternationalCo>] June 11-13, 2015, Nantes.

Member of the Steering Committee of the The 2015 International Conference Applied Mathematics, Computational Science & Engineering (AMCSE 2015), Agios Nikolaos, [<http://www.amcse.org/>] Crete, Greece, October 17-19, 2015

Member of the Advisory Committee of the International Conference on Business, Information, and Service ScienceY - MSCI 2015, 5-7 August 2015, Grand Hotel, Taipei, Taiwan.

Member of the International Scientific Program Committee of The 2ND INT.CONF. ON MATHEMATICS AND COMPUTERS IN SCIENCES AND INDUSTRY - MSCI 2015, [<http://www.msci-conf.org/index.html>] Sliema, Malta, August 17-19, 2015.

Member of the International Scientific Program Committee of The 5th International Conference on Control and Optimization with Industrial Applications [<http://www.coia-conf.org/en/>] 27-29 August 2015 (Baku, Azerbaijan).

Member of the International Scientific Program Committee of (ICE-B 2015), the 12th International Conference on e-Business, [<http://www.ice-b.icete.org/>] July 20-22, 2015 (Colmar, Aslace, France).

Member of the International Scientific Program Committee of The Third International Conference

on Information Technology and Quantitative Management (ITQM 2015), July 21-24, 2015 (Rio De Janeiro, Brazil). [<http://www.itqm-meeting.org/2015/>]

Member of the International Scientific Program Committee of The 9th International Conference on Management Science and Engineering Management (2015 ICMSEM), [<http://www.icmsem.org/>] July 25-30, 2015 Karlsruhe, Germany.

Member of the Organizing Committee of 19th International Conference on Circuits, Systems, Communications and Computers [<http://www.cscs.co/index.html>] (CSCC 2015), Zakynthos Island, Greece, July 16-20, 2015.

Member of the International Scientific Program Committee of the (MCO 2015) Modelling, Computation and Optimization in Information Systems and Management Sciences [<http://www.lita.univ-lorraine.fr/iccsama2015/MCO/>] May 11-13, 2015, Metz, France.

Member of the International Scientific Program Committee of the (KDIR 2015) International JConference on Knowledge Discovery and Information Retrieval [<http://www.kdir.ic3k.org/Home.aspx>] Nov 21-14, 2015, Lisbon, Portugal.

Honorary Chair of the 2015 2nd International Conference on Soft Computing & Intelligence Dec. 23-24, 2015, Hongg Kong. [<http://www.iscni.us/com.php>]

Member of the International Scientific Program Committee of the International Conference on Computer Science & Communications, Athens, Greece (Dec 29-31, 2017) [<http://www.iaras.org/iaras/conferences/2017/iccsc>]

Member of the International Scientific Program Committee of the International Conference on Operations Research and Enterprise Systems (ICORES), Madeira, Portugal (January 24-26, 2018) [<http://www.icores.org>]

Member of the International Scientific Program Committee of the International Conference on Operations Research and Enterprise Systems (ICORES), Prague, Czech Republic (February 19-21, 2019) [<http://www.icores.org>]

Member of the international scientific committee of the conference on Minimax Inequalities and Equilibrium Problems, University of Granada, Spain (6-7 May 2019) [<https://congresos.ugr.es/minequmax/>]

Member of the Program Committee of the 17th EUROPT 2019 Workshop on Advances in Continuous Optimization, Glasgow (28-29 June 2019)

Member of the scientific committee of the 9th international conference of the Financial Engineering and Banking Society (FEBS 2019), University of Economics, Prague, Czech Republic (May 30-June 1, 2019) [<https://www.febsociety.org/conferences/international-conferences/9th-international-conference/overview/>]

Member of the organizing committee of the International Conference on Bio Equivalence and Bio Availability (August 19-20, 2019) Barcelona, Spain [<https://scientificfederation.com/icbeba-2019/>]

Member of the international program committee of the (ASPai 2019) International Conference on Advances in signal Processing and Artificial Intelligence, March 20-22, 2019, Barcelona, Spain [<http://aspai-conference.com/>]

Member of the international program committee of (NACA-IVOTA 2019) International Conference on Nonlinear Analysis and Convex Analysis (NACA) and International Conference on Optimization: Techniques and Applications (ICOTA), Hakodate, Japan, on August 26–31, 2019 [<http://wgnaca.org/naca->

icota2019/]

Member of the Organizing Committee of the Fifth International Conference on Fossil and Renewable Energy, March 1-3, 2021, Houston, TX (F&R Energy-2021) <https://energy-conference.com/>

Codirector of the 8th International Conference on Energy, Sustainability and Climate Change (ESCC), May 31 - June 4, 2021, Volos, Greece <http://esc.uth.gr/>

Member of the Program Committee of the 10th International Conference on Software Engineering and Application (SEA 2021), June 1-20, 2021, Copenhagen, Denmark. <https://ccsea2021.org/sea/index>

Member of the Organizing Committee of Aerospace 2021 (September 27-29, 2021, Lyon, France) <https://www.olcinternational.com/aerospace/>