

**Panayote (Panos) M. Pardalos**

Distinguished Professor

Director, Center for Applied Optimization

Department of Industrial and Systems Engineering

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Affiliated Faculty of Computer &amp; Information Science &amp; 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)

**August 2020: H-index = 99, Erdős number =2****ACADEMIC AWARDS**

- 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  
06/1993 and Theoretical Computer Science)

- 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”, Univer-  
sity 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, Geneve (Switzerland).

Member of the Editorial Board of the “International Journal of Computational Science and Engineering (IJCSE)”, Inderscience Publishers, Geneve (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, Geneve (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-biomedical-science-and-engineering](http://www.scirp.org/journal/journal-biomedical-science-and-engineering))”, Scientific Research Publishing, USA.

Member of the Advisory Editorial Board of the Journal of “Computational Social Networks,” (<http://www.springer.com/journal/10588>) 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”.

**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 Chaovalitwongse, 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>

**Current Ph.D. Students:**

- Arsenios Tsokas
- Farnaz Babaie
- Georgios Adosoglou
- Seonho Park
- Bijan Taslimi
- Meserret Karaça

**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 Subramaniyan, 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 Golodnik 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)
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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 Programing: 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 JC Sackellares, ST Bearden, PM Pardalos, J Chien)

United States Patent Application 20150088024 (Filed 03/06/2013)

**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: Recent 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 Ve-muri. 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. Halloway), \$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 Appliance" (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), Nasional 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, Ooptimization 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 Theory 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 Multicriteria 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 Bioimedicine, 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 Scholl 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 Sceinces (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 de 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 (July 8, 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](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 Enegineering, 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](http://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>]
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).

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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).

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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).

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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).

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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).

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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).

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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.

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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).

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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.

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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 on “Financial Engineering, Supply Chain, and E-commerce (FEES2001)”, May 25-27, 2001, Athens, Greece.

Chairman and Organizer for the conference on “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.

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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.

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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.

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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.

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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. Almerí Spain.

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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.

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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.

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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

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“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”, Tenerife, 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/eedd>], 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/venue00.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/int>], 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/ne>], 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/FEBS>], 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/>], 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.htm>], 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 (ISCFI 2014), [<http://www.iscfi.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/CallForPapers5thInternational>] 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, Alsace, 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, Hong 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/minequimax/>]

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/]