

**2<sup>nd</sup> International Conference on Computational  
Biomedicine 2013**  
January 24<sup>th</sup> Thursday

Time	Agenda	Speaker	Title
8:45 - 9:00	Conference Welcome	Joseph C. Hartman & Panos M. Pardalos	
9:00 - 10:00	<b>Plenary Talk</b>	<b>Arthur Edison</b>	Why experimental biologists need help with data mining?
10:00 - 10:30		Anand Rangarajan	Boosted segmentation of neuroanatomical datasets using shape complex atlases
10:30 - 10:45	Coffee Break		
10:45 - 11:15		Vitaliy Yatsenko	Active Remote Sensing of Chemical and Biological Agents: Computational Models, Toxicity Testing, and Human Health Risk Assessment
11:15 - 11:45		Mario Guarrracino	Spectral based feature selection for a cell death discrimination problem
11:45 - 12:15		Ling Wang	Feature Selection Based on Meta-heuristics for Biomedicine
12:15 - 13:15	Lunch		
13:15 - 13:45		Mikhail Batsyn	An Efficient Branch and Bound Algorithm for Protein Matching Problem
13:45 - 14:15		Moongu Jeon	Developing Detection Algorithms of Heart Diseases and Portable ECG
14:15 - 15:15	<b>Plenary Talk</b>	<b>Giovanni Stracquadanio</b>	Computational Analysis and Validation of Structural Variations in the Synthetic Yeast Genome
15:15 - 15:30	Coffee Break		
15:30 - 16:00		Evgeny Maslov	An efficient algorithm for the maximum clique problem
16:00 - 16:30		Mike Fenn	Raman Spectroscopy Combined with an Original Data Mining Framework for Classifying and Characterizing Cancerous and Non-Cancerous Breast Cell Lines
16:30 - 17:00		Jeongyeon Seo	BetaNMR: a Beta-complex approach to Molecular Distance Geometry Problem

## **2<sup>nd</sup> International Conference on Computational Biomedicine 2013**

January 25<sup>th</sup> Friday

Time	Agenda	Speaker	Title
8:30 – 9:00	Breakfast		
9:00 – 10:00	<b>Plenary Talk</b>	<b>Fivos Panetsos</b>	Neural optimization in information processing and coding" neural strategies for complex information processing and coding by single trains of neuronal spikes
10:00 – 10:30		Caroline Williams	Selection for cold tolerance alters the maintenance of metabolic homeostasis during cold exposure in Drosophila melanogaster
10:30 – 10:45	Coffee Break		
10:45 – 11:15		Brittany Ann Lee	A Metabolomics Approach to Biomarker Discovery for Non-Alcoholic Steatohepatitis
11:15 – 11:45		Syed Mujahid	Blind signal separation for non-negative sources
11:45 – 12:15		Vijay Pappu	Sparse Proximal Support Vector Machines
12:15 – 13:15	Lunch		
13:15 – 13:45		Minrui Fei	Exploring Energy landscapes with the state-of-the-art population-based evolutionary algorithms
13:45 – 14:15		Gregory Stupp	Global Metabolomics with Isotopic Ratio Outlier Analysis
14:15 – 14:45		Maria Brigida Ferraro	Supervised classification for causative mutation prediction of rare diseases in pooled next generation sequencing data
14:45 – 15:15		Dymtro Korenkevych	Tensor analysis in human brain fMRI data
15:15 – 15:30	Coffee Break		
15:30 – 16:00		Haiping Ma	Integrated evolutionary Optimized Methods for Global Optimization of the Bifunctional Catalyst Problem
16:00 – 16:30		Chaevien Clendinen	MALDI Mass Spectrometry of Caenorhabditis elegans
16:30 – 17:00		Paul Thottakara	Proximal Support Vector Machines via Least Squares Approach

**2<sup>nd</sup> International Conference on Computational  
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January 26<sup>th</sup> Saturday

Time	Agenda	Speaker	Title
8:30 – 9:00	Breakfast		
9:00 – 10:00	<b>Plenary Talk</b>	<b>Evangelos Christou</b>	Training to enhance motor learning in older adults
10:00 – 10:30		Pando Georgeiv	Subspace Classifiers and their applications
10:30 – 11:00	Coffee break		
11:00 – 11:30		Yong-Feng Huang	A Vessel Segmentation Method based on Tubular Structure for Calo Arteries
11:30 – 12:00		Hossein Moosaei	Twin Support Vector Machine for Multi- Class Classification