

ECMI SIG Workshop on Mathematics for Big Data

May 31-June 1 2017, Novi Sad, Serbia

Wednesday, May 31 2017 University of Novi Sad Faculty of Sciences, Department of Biology, Amphitheater Trg Dositeja Obradovica 2, Novi Sad, Serbia	
8:30-9:00	Registration
9:00-9:15	Opening
9:15-11:15	Optimization, learning, and statistics for Big Data, Part I
9:15-10:00	Plenary lecture Joao Xavier, <i>Distributed learning algorithms for Big Data</i>
10:00-10:25	Alessandra Micheletti, <i>A clustering algorithm for multivariate big data with correlated components</i>
10:25-10:50	Stefania Bellavia, <i>A Levenberg-Marquardt method for large-scale noisy nonlinear least squares problems</i>
10:50-11:15	Milan Merkle, <i>Calculation of high-dimensional Tukey median</i>
11:15-11:45	Coffee break
11:45-13:20	Optimization, learning, and statistics for Big Data, Part II
11:45-12:10	Dragana Bajovic, <i>Hypothesis testing for stochastic graph processes</i>
12:10-12:35	Dusan Jakovetic, <i>Distributed optimization methods with randomized agents' activities</i>
12:35-13:20	Plenary lecture Hanno Gottschalk, <i>Student projects on statistical learning with companies of all sizes</i>
13:20-14:20	Lunch break
14:20-15:30	Big Data for communication engineering
14:20-15:05	Plenary lecture Branka Vucetic, <i>Next-generation telecommunication networks: Carriers and users of Big Data</i>
15:05-15:30	Dejan Vukobratovic, David Murray, <i>H2020 SENSIBLE project: Big Data Analytics for Intelligent Buildings</i>
15:30-16:00	Coffee break
16:00-17:40	BioSense Institute: Data analytics for biosystems and agri-food
16:00-16:25	Sanja Brdar, <i>Exploring Microbial World with Clustering Algorithms - Challenges and Perspectives</i>
16:25-16:50	Predrag Lugonja, <i>Satellite Image Processing for Sustainable Agriculture</i>
16:50-17:15	Oskar Marko, <i>Yield Prediction and Seed Selection using Data Analytics</i>
17:15-17:40	Marko Panic, <i>Hyperspectral Imaging for Fruits and Vegetables Quality Assessment</i>
20:00	Conference dinner
Thursday, June 1 2017 University of Novi Sad Faculty of Sciences, Department of Biology, Amphitheater Trg Dositeja Obradovica 2, Novi Sad, Serbia	
9:15-10:45	Data analytics for text and image processing
9:15-10:00	Plenary lecture Stefano Iacus, <i>Sentiment Analysis over Big Data</i>
10:00-10:45	Plenary lecture Aleksandra Pizurica, <i>Sparse Coding and Multimodal Dictionary Learning in Computer Vision</i>
10:45-11:05	Poster session (plus Coffee offered)

	Data analytics projects examples of University of Novi Sad's Data Science master students
11:05-13:10	Big Data applications in industry
11:05-12:10	Industrial case studies
11:05-11:30	Lara Quijano Sanchez, <i>The BIG CHASE: A decision support sytem for client acquisition applied to financial networks</i>
11:30-11:50	Content Insights, Ognjen Zelenbabic: <i>Editorial analytics and big data</i>
11:50-12:10	3Lateral, Uros Sikimic: <i>Data Science Applied for Studying the Human Face</i>
12:10-13:10	Panel discussion with industry Problems and challenges behind deriving value from enterprise Big Data
13:10-14:10	Lunch break
14:10-15:40	Conclusions, discussions, and further activities of the ECMI Special Interest Group (SIG) Mathematics for Big Data