



UNIVERSITY OF AMSTERDAM



ITMO UNIVERSITY

**5<sup>th</sup> International Young Scientists Conference in  
High Performance Computing and Simulation 2016**

**(YSC 2016)**

**26 – 28 October, 2016**

**Kraków, Poland**

**Wednesday, October 26**

09:00 – 09:30	Registration
09:30 – 10:00	<b>Welcome Address:</b> Prof. Dr. Krzysztof Zieliński, Head of the Department of Computer Science at AGH University, Poland Prof. Dr. Alexander Boukhanovsky, ITMO University, Russia
10:00 – 10:40	Speed Dating
10:40 – 11:10	Coffee Break
11:10 – 11:50	<b>Keynote lecture: H. Zhuge, Multi-dimensional summarization in cyber-physical society.</b>
11:50 – 12:30	<b>Keynote lecture: A. Belloum, Defining curriculum for data science</b>
12:30 – 13:50	Lunch
13:50 – 14:30	<b>Keynote lecture: D. Kranzmueller, Environmental (friendly) supercomputing on SuperMUC</b>
14:30-15:20	<b>Young Scientists Presentations</b>
	<b>Iwan Bugajski:</b> Adaptation of Population Structure in Socio-cognitive Particle Swarm Optimization
	<b>Elizaveta Lutsenko:</b> The new method of modeling of conformational changes of multi chain proteins
	<b>Vasily Leonenko:</b> Influenza outbreaks forecasting in Russian cities: is Baroyan-Rvachev approach still applicable?
15:20 – 15:40	Coffee Break
15:40 – 17:20	<b>Young Scientists Presentations</b>
	<b>Denis Kokorev:</b> Applied problems of polyhedron inscribing task solving
	<b>Radosław Łazarz:</b> Graph-based Framework for 3-D Vascular Dynamics Simulation
	<b>Iana Mazur:</b> Numerical Modeling of Freeform Refractive Surfaces Forming Line Radiation Pattern
	<b>János Biró:</b> Political parties on Facebook
	<b>Tesfamariam Mulugeta:</b> Simulation of Patient Flow and Load of Departments in a Specialized Medical Center
17:20 – 18:00	Excursion around the AGH Campus
18:00 – 19:00	Welcome Drinks

**Thursday, October 27**

09:00 – 10:20	<b>Young Scientists Presentations</b>
	<b>Anastasiia Funkner:</b> Preoperational Time Prediction for Percutaneous Coronary Intervention Using Machine Learning Techniques
	<b>Maciej Woźniak:</b> Fast parallel integration for three dimensional Discontinuous Petrov Galerkin method
	<b>Anatolii Saevskii:</b> BOINC forks, issues and directions of development
	<b>Daria Pryakhina:</b> Optimization of Distributed Data Processing System for NICA BM@N Experiment by Using Simulation
10:20 – 10:50	Coffee Break
10:50 – 11:50	<b>Keynote lecture: Dr. Valeria Krzhizhanovskaya, Machine Learning Methods for Anomaly Detection. Examples from Dam and Levee Condition Monitoring</b>

11:50 – 12:50	<b>Young Scientists Presentations</b>
<b>Timofei Epanchintsev:</b> Parallel Simulation of Scroll Wave Dynamics in the Human Heart Using the FEniCS Framework	
<b>Vagram Airiian:</b> Implementing, Evaluating and Extending the Model of LIT Cloud Infrastructure at JINR	
<b>Alva Presbitero:</b> Immune System Model Calibration by Genetic Algorithm	
12:50 – 14:00	Lunch
14:00 – 15:20	<b>Young Scientists Presentations</b>
<b>Ivan Smetannikov:</b> New Approaches to Parallelization in Filters Aggregation Based Feature Selection Algorithms	
<b>Lukasz Opiola:</b> Kademia with Consistency Checks as a Foundation of Borderless Collaboration in Open Science Services	
<b>Kristina Enokyan:</b> The tool for supercomputer's users' traffic accounting and analysis	
<b>Kirill Golubev:</b> Dijkstra-based Terrain Generation Using Advanced Weight Functions	
15:20 – 15:40	Coffee Break
15:40 – 16:30	<b>Keynote lecture: to be determined</b>
17:00 – 20:00	Walk Tour to Wawel Hill, Old Town and Jewish Kazimierz

### Friday, October 28

09:00 – 10:20	<b>Young Scientists Presentations (5)</b>
<b>Maxim Petrov:</b> Multitenant approach to crawling of online social networks	
<b>Alexey Serenko:</b> On the applicability of spiking neural network models to solve the task of recognizing gender hidden in texts	
<b>Alexey Golubev:</b> Geospatial Data Generation and Preprocessing Tools for Urban Computing System Development	
<b>Vasily Leonenko:</b> E-participation Tools in Science and Business Sphere Implementation: The Case of XPIR-Platform for Participation in Education Policy	
10:20 – 10:50	Coffee Break
10:50 – 12:00	<b>Young Scientists Presentations</b>
<b>Dmitry Gudovskikh:</b> Machine Learning Models of Text Categorization by Author Gender Using Topic-Independent Features	
<b>Nikitin Nikolay:</b> Statistics-based models of flood-causing cyclones for the Baltic Sea region	
<b>Sergei Smirnov:</b> Distributed optimization on the base of AMPL modeling language and Everest platform	
<b>Svetlana Ustugova</b>	
12:00 – 12:50	<b>Keynote lecture: Prof. Dr. Janusz Holyst, Detecting and modelling of collective emotions in on-line communities</b>
12:50 – 14:00	Lunch
14:00 – 15:20	<b>Young Scientists Presentations</b>
<b>Kirill Kuvshinov / Klavdia Bochenina:</b> Parallel Simulation of Adaptive Random Boolean Networks	
<b>Anna Puchkova:</b> Subsystem of patent information analysis at the stage of conceptual design of management systems elements	
<b>Alexander Sokolov:</b> Geospatial Data Generation and Preprocessing Tools for Urban Computing System Development	
<b>Pálma Szolnoki</b>	
15:20 – 15:40	Coffee Break
15:40 – 16:40	<b>Keynote lecture: Dr. Michael Lees, the topic is to be determined</b>
16:40 – 17:00	Closing Remarks & Certificates for YSC 2016 participants