

**Wednesday**  
October 11<sup>th</sup>, 2017

**Thursday**  
October 12<sup>th</sup>, 2017

**Friday**  
October 13<sup>th</sup>, 2017

8:00

Registration

Registration

9:00

Symposium Opening

Invited Speaker – Karl Tuyls

10:00

Invited Speaker – Eva  
Onaindia

Coffee Break

11:00

Session 1

Multi-agent Systems

+

WASA 2017

7<sup>th</sup> Workshop on Applications of  
Software Agents

Session 4

Service-based Distributed  
Systems

12:00

Session 5

Machine Learning

13:00

Lunch

Lunch

14:00

Invited Speaker – Bela Stantic

Session 6

Internet of Things and Cloud  
Computing

15:00

Session 2

Reasoning and Decision Making in  
Distributed Environments

Session 7

Data Analysis, Mining and  
Integration

16:00

Coffee Break

Session 3

Distributed Algorithms and  
Optimization

Closing Session

17:00

Nikola Tesla Museum

18:00

19:00

Cocktail

20:00

Conference Dinner

Full papers have 20 minutes for presentations and 5 minutes for discussions, while short papers have 15 minutes for presentations and 5 minutes for discussions (short papers are marked with \*).

## Wednesday

October 11<sup>th</sup>, 2017

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|----------------------|--|
| <b>18:00 – 19:00</b> | Visit of the Nikola Tesla Museum ( <i>meeting is at 17:50 in front of the museum</i> ) |
| <b>19:15 – 21:00</b> | Cocktail at School of Electrical Engineering   |

## Thursday

October 12<sup>th</sup>, 2017

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|----------------------|--|
| <b>8:00 – 9:00</b>   | Registration   |
| <b>9:00 – 9:30</b>   | Symposium Opening  |
| <b>9:30 – 10:30</b>  | Invited Speaker - Eva Onaindia (Chair: Lars Braubach)<br><i>Approaches to Multi-Agent Planning Coordination</i>  |
| <b>10:30 – 11:00</b> | Coffee Break   |
| <b>11:00 – 13:00</b> | Session 1 – Multi-agent Systems + WASA 2017 (Chair: Lars Braubach)   |
| 11:00 – 11:20        | <i>Programming the Interaction Space Effectively with ReSpecTX</i><br>Giovanni Ciatto, Stefano Mariani, and Andrea Omicini   |
| 11:25 – 11:45        | <i>Multi-Agent System to Design Next Generation of Airborne Platform</i><br>Ludovic Grivault, Amal El Fallah-Seghrouchni, and Raphaël Girard-Claudon                         |
| 11:50 – 12:05        | * <i>A Drone-based Building Inspection System using Software-Agents</i><br>Jun Jo, Zahra Jadidi, and Bela Stantic  |
| 12:10 – 12:30        | <i>Agent-Based Computing in the Internet of Things: a Survey</i><br>Claudio Savaglio, Giancarlo Fortino, Maria Ganzha, Marcin Paprzycki, Costin Bădică, and Mirjana Ivanović |
| 12:35 – 12:55        | <i>Teaching, Learning and Assessment of Agents and Robotics in a Computer Science Curriculum</i><br>Ioanna Stamatopoulou, Konstantinos Dimopoulos, and Petros Kefalas        |
| <b>13:00 – 14:30</b> | Lunch  |
| <b>14:30 – 15:30</b> | Invited Speaker –Bela Stantic (Chair: Petros Kefalas)<br><i>Integration of Heterogeneous Voluminous Data in Distributed Environment</i>                                      |
| <b>15:30 – 17:00</b> | Session 2 – Reasoning and Decision Making in Distributed Environments<br>(Chair: Petros Kefalas)   |
| 15:30 – 15:50        | <i>Towards a Paraconsistent Approach to Actions in Distributed Information-Rich Environments</i><br>Łukasz Biątek, Barbara Dunin-Kęplisz, and Andrzej Szalas                 |

15:55 – 16:15	<i>A Modified Vickrey Auction with Regret Minimization for Uniform Alliance Decisions</i> Marin Lujak and Marija Slavkovic
16:20 – 16:35	* <i>Lightweight Cooperative Self-Localization as Support to Traffic Regulation for Autonomous Car Driving</i> Assia Belbachir, Marcia Pasin, and Amal El Fallah Seghrouchni
16:40 – 16:55	* <i>A New Approach for Vertical Handover between LTE and WLAN Based on Fuzzy Logic and Graph Theory</i> Zlatko Dejanović
<b>17:00 – 17:30</b>	Coffee Break
<b>17:30 – 19:05</b>	Session 3 – Distributed Algorithms and Optimization (Chair: Marin Lujak)
17:30 – 17:50	<i>A Performance Analysis of Self-* Evolutionary Algorithms on Networks with Correlated Failures</i> Rafael Nogueras and Carlos Cotta
17:55 – 18:15	<i>Spatially Structured Evolutionary Algorithms: Graph Degree, Population Size and Convergence Speed</i> Carlos M. Fernandes, Juan L. J. Laredo, and Agostinho C. Rosa
18:20 – 18:30	<i>Wind Power Production Forecasting using Ant Colony Optimization and Extreme Learning Machines</i> Maria Carrillo, Javier Del Ser, Miren Nekane Bilbao, Cristina Perfecto, and David Camacho
18:45 – 19:00	* <i>On the Applications of Dijkstra's Shortest Path Algorithm in Software Defined Networks</i> Tihana Galinac Grbac and Nikola Domazet
<b>20:00</b>	Conference Dinner

## Friday

October 13<sup>th</sup>, 2017

<b>8:00 – 9:00</b>	Registration
<b>9:00 – 10:00</b>	Invited Speaker – Karl Tuyls (Chair: Michele Malgeri) <i>Multi-agent learning: paradigms, challenges and prospects</i>
<b>10:00 – 10:30</b>	Coffee Break
<b>10:30 – 11:40</b>	Session 4 – Service-based Distributed Systems (Chair: Michele Malgeri)
10:30 – 10:50	<i>Service Discovery in Megascale Distributed Systems</i> Kai Jander, Alexander Pokahr, Lars Braubach, and Julian Kalinowski
10:55 – 11:15	<i>Context-Aware Access Control Model for Services Provided from Cloud Computing</i> Ichiro Satoh
11:20 – 11:35	* <i>Reference Architecture for Self-Adaptive Microservice Systems</i> Krasimir Baylov and Aleksandar Dimov

<b>11:40 – 12:55</b>	<b>Session 5 – Machine Learning (Chair: Carlos Cotta)</b>
11:40 – 12:00	<i>Heuristic of Anticipation for Fair Scheduling and Resource Allocation in Grid VOs</i> Victor Toporkov, Anna Toporkova, and Dmitry Yemelyanov
12:05 – 12:25	<i>Convolutional Neural Networks for Four-Class Motor Imagery Data Classification</i> Tomas Uktveris and Vacius Jusas
12:30 – 12:50	<i>Binary Classification of Images for Applications in Intelligent 3D Scanning</i> Branislav Vezilić, Dušan B. Gajić, Dinu Dragan, Veljko Petrović, Srđan Mihić, Zoran Anišić, and Vladimir Puhalc
<b>13:00 – 14:30</b>	<b>Lunch</b>
<b>14:30 – 16:30</b>	<b>Session 6 – Internet of Things and Cloud Computing (Chair: Victor Toporkov)</b>
14:30 – 14:50	<i>Connecting Social Media Data with Observed Hybrid Data for Environment Monitoring</i> Jinyan Chen, Sen Wang, and Bela Stantic
14:55 – 15:15	<i>An Argumentative Approach to Smart Home Office Ambient Lighting</i> Andrei Mocanu
15:20 – 15:40	<i>A Recommender System Based on Hierarchical Clustering for Cloud e-Learning</i> Krenare Pireva and Petros Kefalas
15:45 – 16:05	<i>A Taxonomy of Anomalies in Distributed Cloud Systems: The CRI-Model</i> Kim Reichert, Alexander Pokahr, Till Hohenberger, Christopher Haubeck, and Winfried Lamersdorf
16:10 – 16:25	<i>* Modeling and Analysis of IoT Energy Resource Exhaustion Attacks</i> Vasily Desnitsky and Igor Kotenko
<b>16:30 – 18:10</b>	<b>Session 7 – Data Analysis, Mining and Integration (Chair: Costin Bădică)</b>
16:30 – 16:50	<i>Context Aware Resource and Service Provisioning Management in Fog Computing Systems</i> Saša Pešić, Milenko Tošić, Ognjen Ivković, Mirjana Ivanović, Miloš Radovanović, and Dragan Bošković
16:55 – 17:15	<i>EUStress: a Human Behaviour Analysis System for Monitoring and Assessing Stress during Exams</i> Filipe Gonçalves, Davide Carneiro, Paulo Novais, and José Pêgo
17:20 – 17:40	<i>Post Sharing-based Credibility Network for Social Network</i> Vincenza Carchiolo, Alessandro Longheu, Michele Malgeri, Giuseppe Mangioni, and Marialaura Previti
17:45 – 18:05	<i>Ontological Hybrid Storage for Security Data</i> Igor Kotenko, Andrey Chechulin, Elena Doynikova, and Andrey Fedorchenko
<b>18:10 – 18:30</b>	<b>Closing Session</b>