

Conference Program

Monday

June 25th, 2018

8 h Registration

9 h Amf 1 Conference Opening – Keynote

Amf 1 Keynote speaker

Dunja Mladenic

10 h Coffee break

11 h Amf 1 Session 1

Web Intelligence and Text Mining

13 h Lunch

14 h Amf 1 Keynote speaker

Ngoc-Thanh Nguyen

15 h Amf 1 Session 2 – BigData 2018

16 h Coffee break

17 h Amf 1 Session 2

BigData 2018

Amf 1 Tutorial

Panagiotis Symeonidis

Contextual-Aware Recommender Systems based on Matrix/Tensor Decompositions and Random Walks on Graphs

19 h City tour

20 h Welcome reception

Tuesday

June 26th, 2018

Registration

Amf 1 Keynote speaker

Sören Auer

Amf 1 Session 3

Semantic Search, Information Retrieval and Linked Data

RC 2 Session 4

Business Information Management and WIMS Applications

Coffee break

Amf 1 Tutorial

Miloš Radovanović

Hubs in Nearest-Neighbor Graphs: Origins, Applications and Challenges

Lunch

Amf 1 Tutorial

Youcef Djenouri and Arthur Zimek

Outlier Detection in Urban Traffic Data

Coffee break

65/3 Tutorial

Krisztian Buza

Time Series Classification and its Applications

Conference dinner

Wednesday

June 27th, 2018

64/3 Session 5

WASA 2018 - 8th Workshop on Applications of Software Agents

65/3 Session 6

Machine Learning and Data Mining

Coffee break

65/3 Session 7

Link Discovery and Named Entity Linking

64/3 Session 8

WIMS Applications in Education and E-learning

Lunch

65/3 Session 9

Social Media Analytics and Recommender Systems

65/3 Tutorial – **Miloš Savić**
Analysis of Annotated Social and Information Networks: Methods and Applications

65/3 Closing

Monday (June 25th, 2018)

8:30 – 9:00	Registration
9:00 – 9:30	Conference Opening – Keynote, Rajendra Akerkar and Mirjana Ivanović – Amf 1
9:30 – 10:30	Keynote speaker – Dunja Mladenic (chair: Bela Stantic) – Amf 1 <i>Observing Global Social Dynamics through Event Monitoring</i>
10:30 – 10:50	Coffee break
10:50 – 12:55	Session 1 – Web Intelligence and Text Mining (chair: Dunja Mladenic) – Amf 1
10:50 – 11:15	<i>Eva Tuba, Raka Jovanovic, Romana Capor Hrosik, Adis Alihodzic and Milan Tuba.</i> Web Intelligence Data Clustering by Bare Bone Fireworks Algorithm Combined with K-Means
11:15 – 11:40	<i>Jernej Flisar and Vili Podgorelec.</i> Document Enrichment using DBPedia Ontology for Short Text Classification
11:40 – 12:05	<i>Grega Vrbančič, Iztok Fister Jr. and Vili Podgorelec.</i> Swarm Intelligence Approaches for Parameter Setting of Deep Learning Neural Network: Case Study on Phishing Websites Classification
12:05 – 12:30	<i>Carine Pierrette Mukamakuza, Dimitris Sacharidis and Hannes Werthner.</i> Mining User Behavior in Social Recommender Systems
12:30 – 12:55	<i>Natalia Loukachevitch, Kirill Ivanov and Boris Dobrov.</i> Thesaurus-Based Topic Models and Their Evaluation
13:00 – 14:15	Lunch
14:15 – 15:15	Keynote speaker – Ngoc-Thanh Nguyen (chair: Costin Badica) – Amf 1 <i>Collective Intelligence: An Influence Analysis of Diversity and Collective Cardinality on Collective Performance</i>
15:15 – 17:30	Session 2 – BigData 2018 (chair: Ngoc-Thanh Nguyen) – Amf 1
15:15 – 15:40	<i>Sunnyeo Park, Ryunhwan Kwon, Hyunjin Kim, John Ganser, Shinhye Yun and Anthony Smith.</i> Forestry Monitoring System using LoRa and Drone
15:40 – 16:05	<i>Phan Thanh Cong, Nguyen Thanh Toan, Nguyen Quoc Viet Hung, Bela Stantic.</i> Minimizing Efforts in Reconciling Participatory Sensing Data
16:05 – 16:20	Coffee break
16:20 – 16:45	<i>Dejan Stantic, Jun Jo.</i> Multiscale Wavelet Method for Heart Abnormality Detection Within IoTs Environment
16:45 – 17:10	<i>Jinyan Chen, Susanne Becken, Bela Stantic.</i> Sentiment Analytics of Chinese Social Media Posts
17:10 – 17:30	<i>Ludovik Coba, Panagiotis Symeonidis, Markus Zanker.</i> Replicating and Improving Top-N Recommendations in Open Source Packages
17:30 – 18:40	Tutorial – Panagiotis Symeonidis (chair: Aleksandra Klačnja-Milićević) – Amf 1 <i>Contextual-Aware Recommender Systems based on Matrix/Tensor Decompositions and Random Walks on Graphs</i>
18:40 – 20:10	City tour
20:10	Welcome reception

Tuesday (June 26th, 2018)

8:30 – 9:00	Registration
9:00 – 10:00	Keynote speaker – Sören Auer (chair: Arthur Zimek) – Amf 1 <i>A knowledge graph for science</i>
10:00 – 11:35	Session 3 – Semantic Search, Information Retrieval and Linked Data (chair: Jun Jo) – Amf 1
10:00 – 10:25	<i>Jonas Halvorsen and Audun Stolpe.</i> Towards practical federation of BGPs in the presence of blank nodes
10:25 – 10:50	<i>Jaroslav Melesko and Eugenijus Kurilovas.</i> Semantic Technologies in e-Learning: Learning Analytics and Artificial Neural Networks in Personalised Learning Systems
10:50 – 11:15	<i>Ling Shi and Dumitru Roman.</i> Ontologies for the Real Property Domain
11:15 – 11:35	<i>Guma Abdulkhader Lakshen, Valentina Janev and Sanja Vraneš.</i> Challenges in Quality Assessment of Arabic DBpedia
10:00 – 11:35	Session 4 – Business Information Management and WIMS Applications (chair: Jovana Vidaković) – RC 2
10:00 – 10:25	<i>Drazen Brdjanin, Danijela Banjac, Goran Banjac and Slavko Maric.</i> An Online Business Process Model-driven Generator of the Conceptual Database Model
10:25 – 10:50	<i>Jevgeni Marenkov, Tarmo Robal and Ahto Kalja.</i> Guideliner – a Tool to Improve Web UI Development for Better Usability
10:50 – 11:10	<i>Leon Bošnjak and Boštjan Brumen.</i> Improving the Evaluation of Shoulder Surfing Attacks
11:10 – 11:30	<i>Adela Ljajić, Milena Stanković and Ulfeta Marovac.</i> Detection of negation in the Serbian language
11:30 – 11:45	Coffee break
11:45 – 13:15	Tutorial – Miloš Radovanović (chair: Zoran Bosnić) – Amf 1 <i>Hubs in Nearest-Neighbor Graphs: Origins, Applications and Challenges</i>
13:15 – 14:30	Lunch
14:30 – 16:30	Tutorial – Youcef Djenouri and Arthur Zimek (chair: Miloš Radovanović) – Amf 1 <i>Outlier Detection in Urban Traffic Data</i>
16:30 – 17:00	Coffee break
17:00 – 19:00	Tutorial – Krisztian Buza (chair: Vladimir Kurbalija) – 65/3 <i>Time Series Classification and its Applications</i>
20:00	Conference dinner

Wednesday (June 27th, 2018)

8:30 – 10:55

Session 5 – WASA 2018 - 8th Workshop on Applications of Software Agents (chair: Milan Vidaković) – 64/3

8:30 – 8:55

Amelia Bădică, Costin Bădică, Ion Buligiu and Liviu Ciora. DEVS Modeling and Simulation Using BDI Agents: Preliminary Considerations

8:55 – 9:20

Benjamin Gâteau. A Smart IoT Middleware for Comfort Management based on Multi-Agent-System

9:20 – 9:45

Kuk Kristijan, Stanojević Aleksandar, Jovanović Mihailo and Nedeljković Slobodan. An Intelligent E-service for Detect Malicious Code Based Agent Technology

9:45 – 10:10

Marko Hölbl, Luka Hrgarek, Mirjana Ivanović, Tatjana Welzer and Milan Vidaković. Introducing Public-Key infrastructure for SiebogJS JavaScript-based Agent Middleware

10:10 – 10:35

Todor Ivascu, Adriana Dinis and Kristijan Cincar. A Disease-driven Nutrition Recommender System based on a Multi-agent Architecture

10:35 – 10:55

Magdalena Kostoska, Monika Simjanoska, Bojana Koteska and Ana Madevska. Real-time Smart Advisory Health System

8:30 – 10:55

Session 6 – Machine Learning and Data Mining (chair: Michael Houle) – 65/3

8:30 – 8:55

Brankica Bratić, Michael E. Houle, Vladimir Kurbalija, Vincent Oria and Miloš Radovanović. NN-Descent on High-Dimensional Data

8:55 – 9:20

Guilherme Oliveira Campos, Wagner Meira Jr. and Arthur Zimek. Outlier Detection in Graphs: On the Impact of Multiple Graph Models

9:20 – 9:45

Andrei Ionita, André Pomp, Michael Cochez, Tobias Meisen and Stefan Decker. Where to Park? Predicting Free Parking Spots in Unmonitored City Areas

9:45 – 10:10

Saša Pešić, Milenko Tošić, Ognjen Iković, Miloš Radovanović, Mirjana Ivanović and Dragan Bošković. Bluetooth Low Energy Microlocation Asset Tracking (BLEMAT) in a Context-Aware Fog Computing System

10:10 – 10:35

Sandro Radovanović, Boris Delibašić, Miloš Jovanović, Milan Vukićević and Milija Suknović. Framework for integration of domain knowledge into logistic regression

10:35 – 10:55

Xin Liu, Tsuyoshi Murata and Kyoung-Sook Kim. Measuring Graph Reconstruction Precisions - How Well Do Embeddings Preserve the Graph Proximity Structure

11:00 – 11:15

Coffee break

11:15 – 13:15

Session 7 – Link Discovery and Named Entity Linking (chair: Krisztian Buza) – 65/3

11:15 – 11:40

Andreas Karampelas and George A. Vouros. Time and Space Efficient Large-Scale Link Discovery using String Similarities

11:40 – 12:05

Albert Weichselbraun, Philipp Kuntschik and Adrian M.P. Brasoveanu. Mining and Leveraging Background Knowledge for Improving Named Entity Linking

12:05 – 12:30

Georgios M. Santipantakis, Konstantinos I. Kotis, George A. Vouros, Christos Doulkeridis. RDF-Gen: Generating RDF from streaming and archival data

12:30 – 12:55

Csaba Veres. Task Specific Disambiguation in a Web Page: Towards Symbiotic Annotation

12:55 – 13:15	<i>Adrian M.P. Braşoveanu, Lyndon J.B. Nixon and Albert Weichselbraun.</i> StoryLens: A Multiple Views Corpus for Location and Event Detection
11:15 – 13:20	Session 8 – WIMS Applications in Education and E-learning (chair: Mirjana Ivanović) – 64/3
11:15 – 11:40	<i>Milinko Mandić.</i> Semantic Web based software platform for curriculum harmonization
11:40 – 12:05	<i>Ainuddin Faizan and Steffen Lohmann.</i> Automatic Generation of Multiple Choice Questions from Slide Content using Linked Data
12:05 – 12:30	<i>Boban Vesin, Aleksandra Klačnja-Milićević, Katerina Mangaroska, Mirjana Ivanović, Rodi Jolak, Dave Stikkolorum and Michel Chaudron.</i> Web-based educational ecosystem for automatization of teaching process and assessment of students
12:30 – 12:55	<i>Min-Hee Jang, Sang-Wook Kim, Woong-Kee Loh and Jung-Im Won.</i> Approximate k-Nearest Neighbor Search Based on the Earth Mover's Distance for Efficient Content-based Information Retrieval
12:55 – 13:20	<i>Kaja Zupanc and Zoran Bosnić.</i> Increasing accuracy of automated essay grading by grouping similar graders
13:20 – 14:30	Lunch
14:30 – 16:25	Session 9 – Social Media Analytics and Recommender Systems (chair: Miloš Savić) – 65/3
14:30 – 14:55	<i>Erdem Beğenilmiş and Suzan Uskudarli.</i> Organized Behavior Classification of Tweet Sets using Supervised Learning Methods
14:55 – 15:20	<i>Kristijan Spirovski, Evgenija Stevanoska, Andrea Kulakov, Zaneta Popeska and Goran Velinov.</i> Comparison of different model's performances in task of document classification
15:20 – 15:45	<i>Damianos P. Melidis, Alvaro Veizaga Campero, Vasileios Iosifidis, Eirini Ntoutsis, Myra Spiliopoulou.</i> Enriching Lexicons with Ephemeral Words for Sentiment Analysis in Social Streams
15:45 – 16:05	<i>Mohammed Alzahrani and Lilia Georgieva.</i> Structural modeling and verification of web applications
16:05 – 16:25	<i>Randi Karlsen, Najeeb Elahi and Anders Andersen.</i> Personalized Recommendation of Socially Relevant Images
16:25 – 17:30	Tutorial – Miloš Savić (chair: Amelia Badica) – 65/3 <i>Analysis of Annotated Social and Information Networks: Methods and Applications</i>
17:30 – 18:00	Closing