

SUNDAY 24.09.2023		
Time	Activity	
14:30-15:30	Registration	
15:30-17:00	<b>Session 1 (Hall 1) Network Science</b> <i>Chair: Lasko Basnarkov</i>	<b>Session 2 (Hall 2) EuroCC workshop</b> <i>Chair: Boro Jakimovski</i>
	1. Ilinka Ivanoska, Kire Trivodaliev and Bojan Ilijoski. Multiplex collaboration network of the Faculty of Computer Science and Engineering in Skopje	EuroCC2 - Usage of National HPC resources withing OpenScience Laboratory
	2. Milena Trajanoska, Martina Toshevska and Sonja Gievska. Identifying Drug - Disease Interactions Through Link Prediction in Heterogeneous Graphs	
	3. Jovana Marojevikj, Ana Todorovska, L. T. Chitkushev, Irena Vodenska and Dimitar Trajanov. Understanding worldwide natural gas trade flow for 2017 to 2022: A network-based approach	
	4. Martina Toshevska, Slobodan Kalajdziski and Sonja Gievska. Graph Neural Networks for Antisocial Behavior Detection on Twitter	
	5. Kiril Zelenkovski and Lasko Basnarkov. Markov chain	
	6. Filip Mihov. Polymer dynamics on hypergraphs	
17:00-17:30	Coffee break	
17:30-17:45	Opening ceremony (Hall 1)	
17:45-18:45	<b>Invited speaker (Hall 1): Marija Slavkovik - "Why is AI a social problem in 2023?"</b> <i>Chair: Mile Jovanov</i>	
20:00	Opening cocktail/dinner: Wine tasting, Brass Brothers show (Hotel Tino restaurant)	

MONDAY 25.09.2023		
Time	Activity	
09:00-09:30	Registration	
09:30-10:25	<b>Session 3 (Hall 1) Image processing</b> <i>Chair: Ilinka Ivanoska</i>	<b>Session 4 (Hall 2) E-learning and e-services</b> <i>Chair: Goce Armenski</i>
	1. Petar Sekuloski and Vesna Dimitrievska Ristovska. Image classification using deep neural networks and Persistent Homology	1. Bojan Ilijoski and Nevena Ackovska. Unveiling Insights: Analyzing Application Logs to Enhance Autism Therapy Outcomes
	2. Vlatko Spasev, Ivica Dimitrovski, Ivan Kitanovski and Ivan Chorbev. Semantic Segmentation of Remote Sensing Images: Definition, Methods, Datasets and Applications	2. Bojan Ilijoski and Marija Mihova. Interaction in the classroom using polls
	3. Martin Kostadinov, Petre Lameski, Andrea Kulakov, Ivan Miguel Pires, Paulo Jorge Coelho and Eftim Zdravevski. Enhancing Knee Meniscus Damage Prediction from MRI Images with Machine Learning and Deep Learning Techniques	3. Teodora Chizhbanoska, Goce Armenski and Jasmina Jovanovska. Gamification for Increased Social Responsibility of Companies and Individuals in North Macedonia
	4. Admir Huseini and Maria Marcano. Line smoothing algorithms	4. Olta Llahi and Azir Aliu. The use of Data Visualization for Decision Making in Higher Education
10:30-11:30	<b>Invited speaker (Hall 1): Aleksandar Bojchevski - "Machine learning with guarantees"</b> <i>Chair: Mile Jovanov</i>	
11:30-12:00	Coffee break	
12:00-12:30	<b>Session 5 (Hall 1) Bioinformatics</b> <i>Chair: Nevena Ackovska</i>	
	1. Marjan Gusev, Stojancho Tudjarski and Aleksandar Stankovski. The Curious Case of Randomness in Deep Learning Models for Heartbeat Classification	
	2. Ivan Kuzmanov, Ana Madevska Bogdanova, Nevena Ackovska and Fedor Lehocki. Implementation of the Time Series and the Convolutional Vision Transformers for Biological Signal Processing - Blood Pressure Estimation from Photoplethysmogram	

12:30-13:45	3. Milena Trajanoska, Viktorija Mijalcheva and Monika Simjanoska. Explainable machine learning unveils novel insights into breast cancer metastases sites bio-markers	<b>Session 6 (Hall 2) Dew computing workshop</b> <i>Chair: Marjan Gushev</i>	
	4. Barbora Andrášikova, Ana Madevska Bogdanova, Milan Tyšler, Magdalena Kostoska, Ivan Kuzmanov, Vladimir Trajkovik, Oto Masar, Silvia Puteková and Fedor Lehocki. Using Cuffless Methods for Blood Pressure Estimation Without Need for Individual Calibration	1. Marjan Gusev. A Review of Dew and Edge Computing: Two Sides of a Modern Internet of Things Solution	
	5. Liljana Bozinovska and Adrijan Božinovski. Achievement Motivation Counseling with the Help of EEG-Based Psychokinesis	2. Anthony Harris and Yingwei Wang. Disaster-Resilient Messaging using Dew Computing	
	6. Miona Tomić, Stefan Ilic, Teodora Vičentić and Marko Spasenović. Development of an ECG system based on the ADS1194 integrated circuit	3. Dimitar Mileski and Marjan Gusev. A Promising foundation for Scalable Dew Computing towards Deviceless and Thingless Computing	
	7. Magdalena Kostoska, Ivan Kuzmanov, Bojana Koteska, Fedor Lehocki and Ana Madevska Bogdanova. Processing MIMIC-III for Evaluation of Various Blood Pressure Estimation Models	4. Zorislav Šojat. Rainbow in the Dew	
13:45-15:30	<b>Lunch break</b>		
15:30-16:45	<b>Session 7 (Hall 1) Theoretical informatics</b> <i>Chair: Vesna Dimitrievska Ristovska</i>		<b>Session 8 (Hall 2) Smart patch for life support systems - SP4LIFE workshop</b> <i>Chair: Ana Madevska Bogdanova</i>
	1. Victor Mitrana and Mihaela Paun. Introducing Probabilities in Networks of Polarized Splicing Processors		1. Stefan Ilic, Teodora Vicentic and Miona Tomic. LIG: latest development
	2. Marija Mihova. On the Construction of Associative and Commutative Bilinear Multivariate Quadratic Quasigroups of Order $2^n$		2. Bojana Koteska. Journal paper contributions
	3. Admir Huseini and Maria Marcano. A topology preserving line simplification algorithm		3. Richard Bagin and Magdalena Kostoska. Pipelining presentation – from patch to Tablet
	4. Maja Kukusheva Paneva, Natasha Stojkovikj, Cveta Martinovska Bande and Limonka Koceva Lazarova. Mathematical Analysis and Simulation of Measles Infection Spread with SEIRV+D Model		4. Fedor Lehocki. Electronic triage
16:45-17:10	<b>Coffee break</b>		
17:10-18:10	<b>Invited speaker (Hall 1): Thorsten Altenkirch - "Why dependent types matter?"</b> <i>Chair: Marija Mihova</i>		
20:00	<b>Gala dinner: acoustic national band performance (Hotel Tino restaurant)</b>		

TUESDAY 26.09.2023		
Time	Activity	
09:45-11:00	<b>Session 9 (Hall 1) AI and natural language processing</b> <i>Chair: Miroslav Mirchev</i>	
	1. Ivan Krstev, Igor Mishkovski, Miroslav Mirchev, Blagica Golubova and Sasho Gramatikov. Extracting Entities and Relations in Analyst Stock Ratings News	
	2. Martin Mishev, Blagica Penkova, Maja Mitreska, Magdalena Kostoska, Ana Todorovska, Monika Simjanoska and Kostadin Mishev. MakedonASRDataset - A dataset for Speech Recognition in the Macedonian Language	
	3. Adrijan Božinovski. Intelligent Manufacturing Systems: Robotization of a Factory Warehouse	
	4. Angela Madjar, Jovana Markovska, Jovana Dobрева, Kostadin Mishev, Monika Simjanoska and Dimitar Trajanov. Review of End-to-End Sign Language Recognition and Translation Methods based on Deep Learning	
11:00-11:30	<b>Coffee break</b>	
11:30-12:30	<b>Invited speaker (Hall 1): Gesine Reinert - "Synthetic networks"</b> <i>Chair: Marija Mihova</i>	
12:30-13:00	<b>Closing ceremony (Hall 1)</b>	
13:00-14:30	<b>Lunch break</b>	
14:30-19:00	<b>Excursion</b>	