

GREEN CONFERENCE ROOM A

https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZGJkZGFjZjYtMTBkZC00NGI5LWE2N2tMjE5NWVhNjJlYjMx%40thread.v2/0?context=%7b%22Tid%22%3a%22f0cac47b-e2b3-4e1b-a52f-487d2d996288%22%2c%22Oid%22%3a%22f33e9e1-4a22-4c74-a91c-06cfc5a5bd75%22%7d

LINK to join:

RED CONFERENCE ROOM B

https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTk0ZTQ2MjMtYzRkMy00OTI3LWE2M2MtYzEwNmY4M2E2N2Y2%40thread.v2/0?context=%7b%22Tid%22%3a%22f0cac47b-e2b3-4e1b-a52f-487d2d996288%22%2c%22Oid%22%3a%22f33e9e1-4a22-4c74-a91c-06cfc5a5bd75%22%7d

LINK to join:

MONDAY 27.9.2021

9:00-9:30	CONFERENCE OPENING	
	Ljupcho Antovski, Goce Armenski, Conference Co-Chairs	
	Sasho Gramatikov, President of ICT-ACT	
	Ivan Chorbev, Dean of FINKI, UKIM, Skopje	
9:30-11:30	Session 1A - Deep Learning and AI	
	Chairs: Sonja Gievaska and Nevena Ackovska	
	Darko Filipovski and Sonja Gievaska. SemanticStyleGAN: Generative Image Inpainting using Style-Based Generator	
	Elena Stefanovska and Sonja Gievaska. Predicting and classifying drug interactions	
	Emil Hadzhikolev, Stanka Hadzhikoleva, Kostadin Yotov and Maria Borisova. Automated Assessment of Lower and Higher-Order Thinking Skills Using Artificial Intelligence Methods	
	Filip Georgiev and Nevena Ackovska. Human emotion classification using EEG-based brainwave data	
	Ilija Vishinov, Marjan Gusev, Lidija Poposka and Marija Vavlukis. Deep Neural Networks Approach to Detecting Atrial Fibrillation from Beat Annotations	
	Ovidiu Buza. Automatic Grid Correction System	
11:30-12:00	Online coffee break	
12:00-14:00	Session 2A - NLP and social network analysis	
	Chairs: Dimitar Trajanov and Milos Jovanovik	
	Jovana Dobрева, Milos Jovanovik and Dimitar Trajanov. DD-RDL: Drug-Disease Relation Discovery and Labeling	
	Iliyan Petrov. Towards multi-criteria evaluation of students' performance in Intelligent Education Systems based on a hybrid AHP-Entropy approach with TOPSIS, MOORA and WPM	
	Stefan Popov, Janja Snoj Tratnik, Martin Breskvar, Darja Mazej, Milena Horvat and Sašo Džeroski. Modeling the association between prenatal exposure to mercury and neurodevelopment of children	
	Hristina Mitrova and Ana Madevska Bogdanova. Models for detecting frauds in medical insurance	
	Goce Gavrilov, Irena Stojmenovska, Tiedong Ma and Vladimir Trajkovik. Digital transformation of healthcare services: Case study on services of verification and issuing orthopedic and medical aids	
	Desislava Atanasova, Galina Atanasova and Plamenka Hristova. THE BENEFITS FROM HUMAN-COMPUTER INTERFACE EDUCATION FOR THE FUTURE SPECIALISTS IN COMPUTER SCIENCE	
		10:30-11:00 Dissemination Event for Erasmus+ Project ESSENSE 1B
		Chairs: Petre Lameski
		Dissemination Event for Erasmus+ Project ESSENSE - Higher education programme on building information modelling towards the development of smart environments for seniors
		11:00-11:30 Dissemination Event for Erasmus project iTEM 1B
		Chairs: Ivan Chorbev
		Dissemination Event for Erasmus project iTEM: A new approach in teaching Mathematics & STEM courses

14:00-14:30	Lunch break
14:30-16:30	Session 3A - Theoretical foundations and Information security
	Chairs: Vesna Dimitrova and Kosta Mitreski
	Andreja Naumoski, Georgina Mirceva and Kosta Mitreski. Novel T-norm for fuzzy-rough rule induction algorithm and its influence
	Pedro Juan Roig, Salvador Alcaraz, Katja Gilly, Cristina Bernad and Sonja Filiposka. De Bruijn-based and k-ary n-cube-based algebraic models in fog environments
	Kaltrina Ukalli and Ljupcho Antovski. Digital Transformation in the process of Requirement Management
	Arbër Beshiri. Authentication and authorization in service oriented cloud computing architecture
	Natalija Vugdelija, Nikola Nedeljković, Nenad Kojić, Luka Lukić and Milena Vesić. REVIEW OF BRUTE-FORCE ATTACK AND PROTECTION TECHNIQUES
	Stefan Pavlov Pavlov, Jovana Dobрева, Vesna Dimitrova and Aleksandra Popovska-Mitrovikj. Information Security Policies - A review on the challenges, effectiveness and successful usage
16:30-17:00	Online coffe break
17:00-18:00	KEYNOTE LECTURE
	Prof. Andrej Bogdanov, A Gentle Introduction To Zero-Knowledge

TUESDAY 28.9.2021

9:00-11:00	Session 4A - E-Services
	Chairs: Ana Madevska Bogdanova and Monika Simjanoska
	Kristian Efremov and Gorgi Kakasevski. Efficiency comparison of software development process upon transition from Kanban to Scrumban
	Elizabeta Trajanovska-Srbinska. Personalization of e-learning systems
	Luka Lukić, Nenad Kojić, Olivera Bugarinović, Milena Vesić, Natalija Vugdelija, Miroslava Ignjatović and Mladen Veinović. ONE APPROACH IN SOLVING THE PROBLEM OF PRE-SELECTION OF CANDIDATES IN COMPANIES USING A WEB APPLICATION
	Aleksandar Janjickj, Ana Madevska Bogdanova and Vladimir Trajkovik. Online education bridges the paradigm of education
	Vojdan Kjorveziroski, Sonja Filiposka and Vladimir Trajkovik. Serverless Platforms Performance Evaluation at the Network Edge
	Kostadin Mishev, Aleksandra Karovska Ristovska, Olivera Rashikj Canevska and Monika Simjanoska. Assistive e-Learning Software Modules to Aid Education Process of Students with Visual and Hearing Impairment: A Case Study in North Macedonia
11:00-11:30	Online coffee break
11:30-13:30	Session 5A - Big Data, Data Mining and Applications
	Chairs: Gjorgji Madzarov and Petre Lameski
	Genc Hamzaj, Zamir Dika and Goce Armenski. An Overview on How to Choose the Data Quality Assessment and Improvement Frameworks
	Vu Nguyen Huynh Anh. An Agile Approach for Developing Microservices-based FinTech Applications

Genc Hamzaj, Zamir Dika and Goce Armenski. Comparison of the selected techniques for matching and linking large datasets of personal records from multiple resources

Olta Laha and Azir Aliu. Data Visualization: A brief review

Tsvetanka Georgieva-Trifonova, Miroslav Galabov and Martin Djonov. Research Problems and Methods in Big Data Analytics for Knowledge Discovery from Customer Feedback

Ognen Firfov, Aleksandra Janeska Iliev and Ljubomir Drakulevski. What is next? Did digital transformation just become even faster?: Internet usage vs. productivity

13:30-14:00 Lunch break

14:00-15:20 **Session 6A - Sensor Systems, IoT**

Chairs: Petre Lameski and Panche Ribarski

Nina Petreska, Evgenija Krajchevska, Ognen Handjiski, Sandra Andovska, Bojan Ilijoski, Petre Lameski, Panche Ribarski and Biljana Tojtovska. Digital Shift: Assessment of Mental States Through Passive Mobile Sensing

Snezana Savoska, Natasha Blazeska Tabakovska, Ilija Jolevski, Andrijana Bocevaska, Blagoj Risteovski, Vassilis Kilintzis, Vagelis Chatzis, Nikolaos Beredimas, Nicos Maglaveras and Vladimir Trajkovik. Integration of IoT Medical Sensors' Data from Mobile Applications into Cloud Personal Health Record

Ervin Shaqiri, Marjan Gusev and Marija Vavlukis. Comparing Time and Frequency Domain Heart Rate Variability for Deep Learning- based Glucose Detection

Dimitar Kitanovski, Aleksandar Stojmenski, Ivan Chorbev, Boro Jakimovski, Snezana Savoska, Blagoj Risteovski, Ilija Jolevski, Natasha Blazeska-Tabakovska and Andrijana Bocevaska. Implementation of a Cloud-Based Personal Health System for Cross-Border Collaboration

14:00-16:00 **NATO Project Workshop Session 1B**

Chairs: Ana Madevska Bogdanova, Milan Tysler

NATO workshop SPS project G5825 – “Smart Patch for Life Support Systems - SP4LIFE”

WEDNESDAY 29.9.2021

9:00-11:00 **EuroCC HPC Training Event Session 1C**

https://www.hpc.mk/index.php/events/pokana-za-uchestvo-na-nacionalna-trening-rabotilnica/#Den1_Sesija1

National training event on High Performance Computing, High Performance Data Analytics and Artificial Intelligence, supported by the EuroCC project (Lectures only in Macedonian language)

13:00-15:00 **EuroCC HPC Training Event Session 2C**

https://www.hpc.mk/index.php/events/pokana-za-uchestvo-na-nacionalna-trening-rabotilnica/#Den1_Sesija2

National training event on High Performance Computing, High Performance Data Analytics and Artificial Intelligence, supported by the EuroCC project (Lectures only in Macedonian language)

THURSDAY 30.9.2021

9:00-11:00 **EuroCC HPC Training Event Session 3C**

https://www.hpc.mk/index.php/events/pokana-za-uchestvo-na-nacionalna-trening-rabotilnica/#Den2_Sesija1

National training event on High Performance Computing, High Performance Data Analytics and Artificial Intelligence, supported by the EuroCC project (Lectures only in Macedonian language)

13:00-15:00 **EuroCC HPC Training Event Session 4C**

https://www.hpc.mk/index.php/events/pokana-za-uchestvo-na-nacionalna-trening-rabotilnica/#Den2_Sesija2

National training event on High Performance Computing, High Performance Data Analytics and Artificial Intelligence, supported by the EuroCC project (Lectures only in Macedonian language)