

Session 1: Education, E-Learning	Location: Hall 1	Time: 7 April (Friday), 15:10 - 16:25
Chair: Mile Jovanov		
Authors	Title	
Sofija Kitanovska and Nevena Ackovska	Assisting children with Down Syndrome in ICT era	
Ljupcho Rechkoski and Zhanko Mitreski	Different Statistical Methods in Predicting Student Course Enrollment	
Vangel Ajanovski	Information System for Mapping the Coverage of Reference Curriculum Guidelines in the Teaching Curricula of a Higher-Educaton Institution	
Metodija Jancheski	LMS, CMS, LCMS, and VLE in e-Learning – similarities, differences and applications	
Mile Jovanov, Emil Stankov and Bojan Ilijoski	A New Collection of Educational Scratch Projects Produced by Computer Science Students	

Session 2: Multimedia, Signal Processing	Location: Hall 1	Time: 8 April (Saturday), 15:50 - 17:20
Chair: Biljana Stojkoska		
Authors	Title	
Antonio Angjelkoski, Andreja Naumoski, Georgina Mirceva and Kosta Mitreski	GIS digitalization of the Sports Center „Boris Trajkovski“	
Ivan Garvanov and Stoyan Vladimirov	Detection of Very Weak Radio Pulsar Signal	
Katarina Trojancanec, Ivan Kitanovski, Ivica Dimitrovski and Suzana Loshkovska	THE INFLUENCE OF QUALITY CONTROL ON THE IMAGE RETRIEVAL: Application to Longitudinal Images for Alzheimer’s Disease	
Ivana Kozolovska, Bojana Koteska, Monika Simjanoska and Ana Madevska Bogdanova	Using Biomodule for Vital Parameters Measurement in Hospital Environment	
Kostadin Mishev and Dimitar Trajanov	Analysis of the urban heat islands effect in Skopje	
Petre Lameski, Eftim Zdravevski, Andrea Kulakov and Vladimir Trajkovik	Machine learning based weed detection with limited data availability	

Session 3: Theoretical Foundations of Informatics, Applied Mathematics	Location: Hall 1	Time: 7 April (Friday), 17:50 - 19:20
Chair: Verica Bakeva		
Authors	Title	
Hristina Mihajloska	An authenticated encryption cipher for resource constrained devices	
Daniela Mechkaroska, Aleksandra Popovska-Mitrovikj and Verica Bakeva	A Filter for Images Decoded using Cryptocodes Based on Quasigroups	
Biljana Tojtovska	Graph theoretical approach for construction of Lyapunov function for a coupled stochastic neural network	
Ismail Koc, Refik Nureddin, Ismail Babaoglu and Sait Ali Uymaz	Binary Invasive Weed Optimization Algorithm Approaches For Binary Optimization	
Trajche Roshkoski, Snezana Savoska and Blagoj Ristevski	Hash functions and their application in digital signatures and digital forensics	
Vesna Dimitrievska Ristovska	Comparison between using two types of low-discrepancy sequences in Quasi-Monte Carlo method	

Session 4: Parallel Processing, Cloud Computing, Computer Networks (Part 1)	Location: Hall 2	Time: 7 April (Friday), 15:10 - 16:25
Chair: Boro Jakimovski		
Authors	Title	
Nikola Popovski and Ilija Jolevski	Lightweight OAI-PMH repository server implementation	
Sasho Gramatikov	Analysis of server and network performance for HTTP-based streaming	
Goce Kiseloski, Dobro Blazevski and Venko Pachovski	Protecting power grids - will there be light in the future?	
Slavcho Andreevski, Adrijan Bozinovski and Biljana Stojcevska	VPN server versus Proxy server privacy	

Session 5: Parallel Processing, Cloud Computing, Computer Networks (Part 2)	Location: Hall 1	Time: 8 April (Saturday), 09:30 - 10:45
Chair: Marjan Gushev		
Authors	Title	
Ervin Domazet and Marjan Gusev	Optimized ECG Signal processing with Wavelets	
Aco Latkoski, Venko Pachovski and Adrijan Božinovski	Multi-tenant cloud solution towards integrated health systems	
Dejan Stamenov and Magdalena Kostoska	Virtual machine migration in Cloud – techniques, challenges and CloudSim migration simulation	
Tina Ranic and Marjan Gusev	Overview of Workflow Management Systems	
Kostadin Mishev, Aleksandar Stojmenski, Ivica Dimitrovski, Vesna Dimitrova and Ivan Chorbev	Cloud services and security for faculty workflow automatization	

Session 6: eWorld, eBusiness, eCommerce	Location: Hall 2	Time: 8 April (Saturday), 09:30 - 10:45
Chair: Smilka Janeska Sarkanjc		
Authors	Title	
Davor Naumoski, Veno Pachovski and Adrijan Božinovski	User Interface Design and improving the user experience process	
Sanja Tanchevska and Marija Mihova	The Impact of Flood Catastrophes in 2015 and 2016 on the Insurance in Macedonia	
Bojan Ilijoski and Zaneta Popeska	A Survey of Text Mining Techniques, Algorithms and Applications	
Vase Pandev and Smilka Janeska Sarkanjac	Sharing economy	
Rovena Bahiti, Enkeleda Ibrahimimi and Salijona Dyrnishi	The Level of Maturity of the ISMS in the Private Sector in Albania (Paper)	

Session 7: Artificial Intelligence, Robotics, Bioinformatics	Location: Hall 1	Time: 8 April (Saturday), 11:55 - 13:30
Chair: Sonja Gievska		
Authors	Title	
Martin Bonchanoski and Katerina Zdravkova	Automatic POS tagging of Macedonian Language	
Kristina Bikoska, Slavco Chungurski and Emilija Kamceva	Context-free grammars for one segment of Macedonian language	
Miodrag Cekikj and Slobodan Kalajdziski	Nutrient - Gene - Disease correlation through the understandings of 'omics'	
Tomche Delev and Dejan Gjorgjevskj	Comparison of string matching based algorithms for plagiarism detection of source code	
Vesna Kirandziska and Nevena Ackovska	A Survey on Models of Robotic Behavior for Emotional Robots	
Georgina Mirceva, Andreja Naumoski and Andrea Kulakov	Comparative analysis of several approaches for determination of protein binding sites	

Student Session 1	Location: Hall 2	Time: 8 April (Saturday) 11:55 - 13:30
Chair: Magdalena Kostoska		
Authors	Title	
Monika Stojchevska	Simulation of BitTorrent in OMNeT ++	
Martina Veljanovska	Analysis of QoS through emulation of a network with the NetEm tool, and analysis of different types	
Aleksandar Jovanov	Robot tracker based on semantic segmentation computer vision algorithms	
Ivona Micevska, Elve Selimoski, Atanas Kostovski, Sasho Najdov and Pance Ribarski	Affordable Server Solution For SOHO Environments	
Sasho Najdov, Atanas Kostovski, Elve Selimoski, Ivona Micevska and Pance Ribarski	User-friendly Admin Panel Solution For SOHO Environments	
Berat Jashari, Florinda Imeri and Agon Memeti	Analysis and Comparison of School Me & Sitos Six, two Learning Management Platforms in Seconda	
Nikola Trajanovski, Vladimir Zdraveski and Marjan Gushev	0-1 Knapsack problem parallelization using CPU and Nvidia CUDA	
Filip Mitrevski, Darko Pajkovski and Tome Dimovski	Transaction Processing Applications in Cloud Computing	

Student Session 2	Location: Hall 1	Time: 8 April (Saturday) 17:50 - 19:20
Chair: Slobodan Kalajdziski		
Authors	Title	
Ivana Maznevska, Miroslav Mirchev, Igor Mishkovski	Platform for data analysis obtained from cultural exchange program	
Ljubomir Ignov and Jordan Arsov	DAPS – A web-based system for sensor data prediction	
Martin Josifoski and Kire Trivodaliev	Instance Based Learning in Protein Interaction Networks	
Darko Gjorgjiev and Pance Ribarski	Implementing Easy Prepaid Card Programme Infrastructure	
Dario Gjorgjevski	Exploring Different LWE-Solving Algorithms	
Blagoj Mitrevski and Marija Mihova	Exact Calculation of All Terminal Network Reliability	
Martin Milenkoski and Kire Trivodaliev	Random Walks on Protein Interaction Networks	