

9th International Conference on Information Society and Technology – ICIST 2019

Programme

Sunday, March 10

17:00-18:30 Opening and keynote session (Room: Pančić 1, Grand Hotel)

- Where do we go from here? - Jožek Gruškovnjak, International Executive, Strategy Consultant, Entrepreneur, Slovenia
- Many Chains, One Ecosystem - Žarko Milošević, Singidunum, Interchain Foundation

20:00 ICIST Wine Connection, keynote Pinter Winery (SmeTam, Župljanka, Moba, Slagalica, Kitnjak)

Monday, March 11

9:30-11:30 Special track: Semantic technologies for Big Data: Volume, Velocity, Variety and Veracity (Room: Pančić 1, Grand Hotel)

- Igor Manojlović and Aleksandar Erdeljan - An Efficient Algorithm for Real-Time Span Temporal Aggregation of Time Series
- Guma Lakshen, Sanja Vraneš and Valentina Janev - Linking Open Drug Data: the Arabic dataset
- Riste Stojanov, Sasho Gramatikov, Milos Jovanovik and Dimitar Trajanov - Delegated attribute-based access control (DABAC) for contextual Linked Data
- Hugo André dos Santos Antunes, Paulo Figueiras, Ruben Costa, Joel Teixeira and Ricardo Goncalves - Big data analytics for extracting mobility patterns in a large urban center
- Marko Jelić, Dea Pujić and Hajira Jabeen - A State-of-the-Art Review on Big Data Technologies
- Guma Lakshen and Valentina Janev - Quality Issues of Open Big Data Ecosystems: Toward Solution Development
- Miloš Bogdanović, Milena Frtunić Gligorijević, Nataša Veljković, Darko Puflović and Leonid Stoimenov - On improving open dataset categorization

9:30-11:30 Special track: ICT for Automotive (Room: Pančić 2, Grand Hotel)

- Kristina Stojmenova, Vesna Marinko and Jaka Sodnik - Effects of phoning during driving
- Timotej Gruden, Grega Jakuš and Jaka Sodnik - Physiological measurements for determining driver's state and behavior
- Sara Tement, Nejc Plohl, Marina Horvat, Bojan Musil, Grega Jakuš and Jaka Sodnik - Is past behavior the best predictor of future behavior? Comparing the behavioral validity of self-reported speeding and driving simulator data
- Orestis Georgiou, Gareth Young, Hamish Milne, Daniel Griffiths and Robert Blenkinsopp - Haptic Gestures for In-Vehicle Infotainment Systems
- Ursa Čižman Štaba, Karmen Resnik Robida, Tara Klun, Klemen Trontelj, Kristina Stojmenova and Jaka Sodnik - Assessing driving skills of patients after brain injury
- Nadica Miljković, Nenad B. Popović, Milana Prodanov and Jaka Sodnik - Assessment of sickness in virtual environments
- Jaka Sodnik - Autonomous driving – challenges and opportunities

15:30-16:30 Poster session 1 (Room: Pančić 2, Grand Hotel)

- Nikola Luburić, Goran Sladić and Branko Milosavljević - Examining Repudiation Threats Using a Framework for Teaching Security Design Analysis
- Edis Mekić, Safet Purković and Kristijan Kuk - Empirical Study of Silent ASICs Mining in Cryptonight Block Chain System
- Marko Vještica, Slavica Kordić, Milan Celiković, Vladimir Dimitrieski, Ivan Luković and Jovana Vidaković - A Performance Evaluation of Some Function-Based Indexes in RDBMS
- Stevan Stankovski, Gordana Ostojić, Igor Baranovski, Sandra Nemet, Miloš Stanojević, Mladen Babic and Miroslav Nicin - Challenges of IoT Payments
- Jordan Atanasijević, Borislav Đorđević and Nevena Stanković - Analysis of the influence of ssd and magnetic discs on the performance of SQL server
- Lazar Berbakov, Marko Batić and Nikola Tomašević - Mobile application for energy management in smart buildings

16:30-18:00 Special track: ICT for health, aging and well-being – Session 1 (Room: Kopaonik, Grand Hotel)

- Sara Stančin and Sašo Tomažič - Computationally Efficient Angular Orientation Calculation from 3D Gyroscope Measurements
- Ivana Ognjanović and Ramo Šendelj - The National Star Model of Medical Informatics Education in Montenegro
- Dejan Dimitrijević, Vladimir Todorović, Nemanja Nedić, Igor Zečević and Sergiu Nedevschi - Towards Automatic Screening of Idiopathic Scoliosis Using COTS Sensor Devices based upon Deep Learning
- Anton Kos, Milivoj Dopsaj, Stefan Marković and Anton Umek - Augmented Real-time Biofeedback Application for Precision Shooting Practice Support
- Bojan Vukov and Dobrivoje Martinov - Bridging the gap between the potential and realized benefits of health information technology
- Marcelo Rudek and Nicoli M. Silva - A Proposal for Footprints Classification in Gait Patterns based on the trajectory of Centres of Pressure
- Andrea Hernández Casillas, Anton Umek and Anton Kos - Reliable

	<p>Communication Protocol for Cyclically Interrupted Radio Channel in Sports Biofeedback Systems</p> <ul style="list-style-type: none"> - Lia Romano, Anna Federica Altieri, Anton Kos, Anton Umek and Sašo Tomažič - Wireless Sensor Device for the Acquisition of High-Frequency Signals in Sport
	<p>18:00-19:30 Special track: ICT for health, aging and well-being – Session 2 (Room: Kopaonik, Grand Hotel)</p> <ul style="list-style-type: none"> - Ana Milojković, Filip Ivković and Miodrag Ivković - Factors of software engineers' work motivation - Anton Umek and Anton Kos - Augmented feedback system for coaching support in volleyball - Miloš Pavlič, Ognjen Francuski, Igor Jovin, Jelena Slivka and Aleksandar Kovačević - Predicting different types of dementia using structured data - Željko Santoši, Mario Sokac, Đorđe Vukelić and Igor Budak - 3D reconstruction of patient-specific dental bone grafts by application of reverse engineering modeling - Fernando Luis-Ferreira, Jorge Calado, Andreia Artifice, João Sarraipa and Ricardo Jardim-Goncalves - Personalized Technological Architectures to Assist Dementia Patients based on Energy Efficiency - Jelena Mitić, Nikola Vitković, Miodrag Manić and Miroslav Trajanović - Application of artificial neural networks in prediction of human mandible geometry - Ulfeta Marovac, Adela Ljajic, Aldina Avdić and Anida Fazlagić - Automation of psychological testing of stressful situations in Serbian - Aldina Avdić, Ulfeta Marovac, Dragan Janković and Dženan Avdić - Normalization of Medical Records Written in Serbian
<p>22:00 YUINFO&ICIST Party - Groš</p>	

Tuesday, March 12

9:30-11:30 Special track: Artificial Intelligence-enabled Enterprise Information Systems (Room: Pančić 1, Grand Hotel)

- Ivan Perić, Gowtham Srungarapu, Shraddha Sharma and Shamit Bhattacharya - Rule Mining-based Insurance Policy Form and Coverage Recommender System with Support-based Rule Indexing and Evaluation
- Nikola Korunović and Milan Zdravković - Real-time structural analysis assistance in customized product design
- Ivan Stevović, Dragoljub Mirjanić, Svetlana Stevović and Dušan Ješić - Nature inspired artificial intelligence for energy system optimization
- Juma Ibrahim, Valentina Timčenko and Slavko Gajin - A comprehensive flow-based anomaly detection architecture using entropy calculation and machine learning classification
- Valentina Timčenko, Juma Ibrahim and Slavko Gajin - The Hybrid Machine Learning Support for Entropy Based Network Traffic Anomaly Detection
- Pasquale Merla, Michele Dassisti and Giambattista Stigliano - Evaluation of the last Machine Learning approaches for the wastewater treatment
- Joao Gao, Bako Rajaonah, Elsa Marcelino-Jesus and Joao Sarraipa - A Trustworthiness-Based Application to Handle Private Data In a FIWARE-Based System
- Danijel Marković, Aleksandar Stanković, Goran Petrović, Miroslav Trajanović and Žarko Čojbašić - Genetic and Ant Colony Optimization Based Communal Waste Collection Vehicle Routing
- Tomislav Dobricki, Ognjen Vlajić, Dragan Vidaković and Jelena Slivka - Generating images to fool a trained neural network using simple search algorithms

9:30-11:30 Regular track: Software engineering (Room: Pančić 2, Grand Hotel)

- Aleksandar Kaplar, Aleksandra Aleksić and Aleksandar Kovačević - Evaluating String Distance Metrics for Approximate Dictionary Matching: A Case Study in Serbian Electronic Health Records
- Miltiadis Siavvas, Dimitrios Tsoukalas, Marija Jankovic, Dionysios Kehagias, Alexander Chatzigeorgiou, Dimitrios Tzovaras, Nenad Aničić and Erol Gelenbe - An Empirical Evaluation of the Relationship between Technical Debt and Software Security
- Alen Suljkanović, Milorad Filipović, Sebastijan Kaplar and Igor Dejanović - Tools for describing architecture of distributed systems based on microservices: overview and improvements
- Ivana Zeljković, Jelena Slivka, Goran Savić and Milan Segedinac - The model of code readability features: visual, structural and textual
- Zorica Mitrović, Ema Nešković and Jovana Rakičević - Design Structure Matrix for Identification of Critical Success Factors for Software Projects
- Miloš Simić, Milan Stojkov, Goran Sladić, Branko Milosavljević and Miroslav Zarić - On container usability in large-scale edge distributed system
- Bojana Zoranović, Nenad Todorović, Željko Vuković, Aleksandar Lukić and Gordana Milosavljević - Testing of Large Scale Model-Driven Solutions
- Goran Šimić, Zoran Maksimović and Aleksandar Jevremović - xAPI – New eLearning Standard for LMS – Simulations Integration

15:30-17:00 Poster session 2 (Room: Pančić 2, Grand Hotel)

- Klemen Cerv and Damir Varešanović - Using Facial Expression Recognition for Driver State Evaluation
- Dionysios Politis, Rafail Tzimas, Nektarios Paris and Veljko Aleksić - Ethnic Music in the Balkans: Identity, Similarity and Classification Norms

- Aleksandra Aleksić, Milan Vidaković, Goran Savić, Aleksandar Kaplar and Milan Segedinac - The Synchronisation of E-Learning Courses Using Agent Technology
- Jelica Cincović, Sanja Delčev and Dražen Drašković - Architecture of web applications based on Angular Framework: A Case Study
- Milan Paroški and Marko Matijević - ANALYSIS OF EGOVERNMENT IN EU
- Žarko Bogičević and Nenad Stefanović - VIRTUAL INTERNSHIPS IN VOCATIONAL EDUCATION AND TRAINING
- Nemanja Marković, Stefan Savić, Miroslav Trajanović and Žarko Čojbašić - Advanced Tobacco Moisture Control Based on Machine Learning and Intelligent Industry 4.0 Solutions

17:00-18:15 Regular track: Information systems – Session 1 (Room: Kopaonik, Grand Hotel)

- Ramo Šendelj and Ivana Ognjanović - Multicriteria Decision Making Support for Cyber Security Capacity Building within Organisations
- Milan Stojkov, Goran Sladić, Branko Milosavljević, Miroslav Zarić and Miloš Simić - Privacy issues in IoT smart healthcare system
- Stefan Dejanović, Jelena Marjanović, Imre Lendák and Aleksandar Erdeljan - Using blockchain to decentralize and protect user privacy in compliance with GDPR
- Vladimir Ivković, Nikola Todorović, Dušan Gajić and Nenad Todorović - Boosting Transition to Paperless Trade – Mapping Traditional Trade Contracts to Smart Contracts
- Katerina Cekova, Cveta Martinovska and Mimoza Klekovska - Remote Monitoring of Toxic Gases in Mines
- Dragan Ivanović, Hanna-Mari Puuska, Joonas Nikkanen, Lauri Hellsten and Olli Eskola - Implementation of OpenAIRE Guidelines for CRIS managers to Finnish VIRT Publication Information Service

18:15-19:30 Regular track: Information systems – Session 2 (Room: Kopaonik, Grand Hotel)

- Danijela Boberić-Krsticev and Danijela Tešendić - BISIS Software as a Service
- Miloš Jevtić, Nikola Zogović and Stevica Graovac - Multi-sensor Data Fusion Architectures Revisited
- Mina Medić, Katarina Preradov, Miroslav Zarić, Goran Sladić and Siniša Nikolić - Calculation of Insurance Policy Prices Using Rules-based Systems
- Maksim Lalić, Vladimir Ivančević and Ivan Luković - Detection of Region-Specific Voting Patterns in Eurovision Song Contest
- Aleksa Mirković, Branko Terzić, Dušan Gajić, Marina Nenić and Ivan Luković - A Model-Driven Approach to Establishment of Private Blockchain Business Networks
- Milan Vidaković, Mirjana Ivanović and Jovana Vidaković - Increasing agent mobility in Siebog Agent Middleware

20:30 ICIST Pop&Rock Party with So&So Band