

Program of the 6th International Conference on Applied Internet and Information Technologies AIIT2016, 03-04.06.2016, Bitola

Venues: Hotel Epinal – Bitola, Faculty of Information and Communication Technologies - Bitola

03.06.2016 (Friday) (Hotel Epinal - Bitola)			
09:00 - 10:00	Registration		
10:00 – 10:15	Welcome address and opening remarks Dean Prof. Pece Mitrevski, PhD Vice Rector Prof. Svetlana Nikoloska, PhD		
10:15 - 10:30	Welcome speech and presentation on Smart government and smart cities H.E. Mrs. Marta Arsovska Tomovska, Minister of Information Society and Administration		
10:30 – 11:30	Keynote lecture: Toward Formalization of Software Security Issues Prof. Vladimir Dimitrov, Faculty of Mathematics and Informatics, University of Sofia, Bulgaria Keynote lecture: Inductive Approaches in Software Process Assessment Prof. Željko Stojanov, Technical faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Serbia		
11:30 - 12:00	Coffee break		
12:00 - 13:30	Session 1	Session 2	
13:30 – 15:30	Lunch		
15:30 – 17:00	Session 3	Session 4	B2B workshop
17:00 - 18:00	Poster session		
18:00 19:45	Sightseeing of Bitola		
20:00 - 01:00	Dinner (Shumski Feneri)		

04.06.2016 (Saturday)			
Hotel Epinal - Bitola		Faculty of Information and Communication Technologies - Bitola	
Workshop: Outsourcing destinations: Macedonia and Western Balkans		Lecture: Securing DNS Operations. DNSSEC	
09:00-09:30	Registration	10:00-11:00	Prof. Stefan Dimitrov, PhD University of Sofia, Faculty of Mathematics and Informatics:
09:30-11:00	Mr. Richard Avery - " Macedonia: Outsourcing's Next Big Destination? " Mrs. Carola Copland - " Macedonia: Business -May The Source Be With You! " Mrs. Nina Ugrinoska - " Security aspects in outsourcing "	11:00-11:30	Coffee break
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11:30-14:00	Panel discussion Panelists: Ilija Jolevski, Richard Avery Carola Copland, Nina Ugrinoska Aleksandar Memca		
14:00-15:00	Cocktail		

Session I (12:00-13:30)	
Design of Prototype Expert System as a University Knowledge Management Tool for Academic Teaching Activity Evaluation	Mihajlo Hasanu, Hristina Ambaroska, Natasha Blazeska-Tabakovska, Mimoza Bogdanovska Jovanovska
Exploring software maintenance process characteristics by using inductive thematic analysis	Zeljko Stojanov, Jelena Stojanov
Local Cloud Solution's and Distance Learning System's Reliability	Predrag Alargić , Tanja Kaurin
Example of IoT platform usage for wireless video surveillance with support of NoSQL and cloud systems	Milan Malić, Dalibor Dobrilović, Ivana Petrov
Agile Management of IT Projects by Modified Scrum Processes	Zoran Ćirić, Otilija Sedlak, Stojan Ivanišević, Ivana Ćirić, Bogdan Laban
Designing Multi-Agent System Model for University Teaching Activities by Using UML	Mihajlo Hasanu, Hristina Ambaroska, Elena Vlahu-Gjorgievska, Ilija Jolevski
Intelligence Approach in Improving Business Processes	Ljubinka Sandjakoska, Daniela Koteska Lozanoska
Visualization of Flood Data Using HTML5 Technologies	Edis Latifoski, Zoran Kotevski and Ilija Hristoski

Session II (12:00-13:30)	
IPv6 Deployment in SU Network	Stefan Dimitrov
An Examination of the Relationship between Security Awareness and Digital Competence	Zoltan Nyikes , Ksenia V. Baimakova
Examples of Raspberry Pi usage in Internet of Things	Nikola Petrov, Dalibor Dobrilovic, Mila Kavalić, Sanja Stanisavljev
Context-aware Technologies and Systems	Seblewongel Esseynew, Berhanyihun Amanuel, Mekuria Sinke, Abel Damtew, Saso Koceski
Simulation-based comparative analysis of the performance of routing protocols	Emilija Stankoska, Nikola Rendevski, Pece Mitrevski
Wireless Sensor Networks Simulators – Computer Simulation Ttools	Igor Georgioski and Hristina Trenchevska
Virtual Private Network Implementation with GRE Tunnels and EIGRP Protocol	Tihomir Stojchevski, Tome Dimovski and Nikola Rendevski
An IoT Concept of the Small Virtual Power Plant Based on Arduino Platform and MQTT Protocol	Dmytro Zubov

Session III (15:30-17:00)	
Expert System for Structural Analysis of Electrocardiograms	Kristina Krasnovitskaya, Evgeny Cherkashin, Sergey Gorunchik
Approach for Synonyms Detection in Conceptual Data Model	Zoltan Kazi, Ljubica Kazi, and Biljana Radulović
Data Visualization in BI&A – Analysis of First Positioned Tools According to Gartner's Magic Quadrant in Ability to Execute	Snezana Savoska, Andrijana Bocevka
Improving Readability of Medical Data by Using Decision Rules	Vladimir Brtko, Ivana Berković, Visnja Ognjenović, Eleonora Brtko, Dobrivoje Martinov, Tatjana S.– Jovanović
Gesture Control of a Mobile Robot using Kinect Sensor	Katerina Cekova, Natasa Koceska, Saso Koceski
E-health monitoring system	Aleksandar Kotevski, Natasa Koceska, Saso Koceski
Fully Automatic MRI Brain Tumor Segmentation	Mihajlo Hasanu, Hristina Ambaroska, Blagoj Ristevski
CUDA DSP Filter for ECG Signals	Ervin Domazet, Marjan Gusev, and Sasko Ristov
A Mobile Application for ECG detection and feature extraction	Aleksandar Stojmenski, Marjan Gusev, and Ivan Chorbev

Session IV (15:30-17:00)	
Modeling and Implementation of Bus Rapid Transit corridor based on Traffic Prioritization and Automatic Location	Ioannis Patias, Vasil Georgiev
Factors influencing the successful adoption of an innovative e-commerce product: single case study	Olga Popovska, Vladimir Trajkovik
On the Pulse of ICT Revolution, Productivity, and Growth: Macedonia versus European Union	Olivera Kostoska, Ilija Hristoski
Development of the Infocommunication System for the Intelligent Rail Transport System of Dangerous Goods in Hungary	Daniel Tokody, György Schuster, Peter Holicza
Evaluating e-Customers' Satisfaction in B2C eCommerce	Ilija Hristoski, Pece Mitrevski, Tome Dimovski, and Zoran Kotevski
Ubiquitous Computing in the context of developing countries	Seblewongel Esseynew, Berhanyihun Amanue, Mekuria Sinke, Abel Damtew, Saso Koceski
Change control in project of web application development in e-commerce environment	Milan Malić, Vesna Makitan, Ivana Petrov
Information Technologies in Human Resources Management: An Overview	Amar Kansara, Mohamed Hafez, and Ljubica Kazi
Effects of Using Databases of Educational Materials in the Education System in Macedonia	Mimoza Anastoska-Jankulovska, Pece Mitrevski

Poster Session (17:00-18:00)	
MongoDB as solution for data warehousing in online HRM systems	Biljana Radulović, Dragica Radosav, Milan Malić
Incorporation of Defined Quality Attributes into Solutions Based on Service-Oriented Architecture	Lazar Atanasov, Vladimir Trajkovik, Elena Vlahu-Gjorgjevska
Modern technologies for data storage, organization and managing in CRM systems	Adriana Grigorescu, Alina Elena Cerchia, Florin Victor Jeflea
Implementation of embedded assistive device for disabled people	Predrag Pecev, Dejan Lacmanović, Zdravko Ivanković, Branko Markoski
The Advantages of Using Raspberry Pi 3 Compared to Raspberry Pi 2 SoC Computers for Sensor System Support	Jovan Ivković, Biljana Radulović
Application of 3ds Max for 3D Modelling and Rendering	Igor Stojanov, Blagoj Ristevski, Zoran Kotevski, Snezhana Savoska
Reducing Competitive Cache Misses in Modern Processor Architectures	Milcho Prisagjanec, Pece Mitrevski
Applying SMT algorithms to code analysis	Milorad Filipović, Goran Sladić, Branko Milosavljević, and Gordana Milosavljević
Controlling robotic arms using Raspberry Pi through the internet	Anita Sabo, Henrik Lábadi, Tibor Szakáll and Andrea Kukla
Autonomous Devices to Map Rooms and other Indoor Spaces and Storing Maps in the Cloud	Henrik Lábadi, Anita Sabo, Bojan Kuljić and Goran Arslanović
Geometric modeling and principle of the golden section	Snežana Vrekić, Milosav Đorđević
Separation of Players in Teams during Basketball Matches	Zdravko Ivanković, Predrag Pecev, Branko Markoski, Dragica Radosav, Dejan Lacmanović
Model for integrating Six Sigma in Manufacturing Execution System in industrial production environment	Goran Tasevski, Marjan Tomovski
Analysis of digital marketing and branding for the purpose of understanding the consumers in digital age	Slađana Borić, Sanja Stanisavljev, Mila Kavalić, Marko Vlahović, Erika Tobolka
Online Loans – New Business model on the Macedonian Financial Market	Marina Blazhekovikj Toshevski
Economic Factors Affecting Business Decision Making	Istat Visnja, Jelena Jovičić, Saša Arsovski, Mira Živković-Drezgić, Darko Badjok
Informatization as a Measure for Improvement of the Education Policy – Case Study: Electronic Content Portal	Ana Sekulovska and Jahi Jahija