

TELFOR 2015

КОНАЧНО ПРИХВАЋЕНИ РАДОВИ *FINALLY ACCEPTED PAPERS*

- 1.1. Andrey V. Chernov, Maria A. Butakova, Ekaterina V. Karpenko: **Security Incident Detection Technique for Multilevel Intelligent Control Systems on Railway Transport in Russia**
- 1.2. Mihai Banica: **Organization Design for Network Related Managed Services**
- 1.3. Nataša Banović-Čurguz, Dijana Ilišević: **Towards Customers & Service Oriented Mobile Service Providers**
- 1.4. Dijana Ilišević, Nataša Banović-Čurguz: **Evolution toward digital society in B&H**
- 1.5. Nexhat Kapidani, Enis Kočan: **Implementation of National Maritime Single Window in Montenegro**
- 1.6. Sadko Mandžuka, Pero Škorput, Miroslav Vujić: **Arhitektura kooperativnih sustava u prometu i transportu**
- 1.7. T. Bubalo, H. Vojvodić, D. Bokulić: **Razmjena prometnih podataka u međugradskom autobusnom prometu**
- 1.8. Zorica Leposavić, Marijana Vukašinović: **Parametri efikasnosti kontakt centra**
- 1.9. Dragan R. Mijić: **Razvoj jedinica za upravljanje projektima (PMO) u organizacionom upravljanju projektima**
- 1.10. Snežana D. Šarboh, Slobodan I. Stojković: **Novootkriveni patenti Nikole Tesle**
- 1.11. Saša D. Zdravković, Snežana D. Šarboh: **Novi rezultati u otkrivanju patenata Mihajla**

- 2.1. Nataša Maksić, Aleksandra Smiljanić: **Routing Optimization in Data Center Networks (invited paper)**
- 2.2. Marija Antić, Aleksandra Smiljanić: **Optimization of Non-Blocking Packet Networks using Load Balanced Shortest Path Routing (invited paper)**
- 2.3. Jelena Seović, Saša Takov, Jelena Veličković, Aleksandra Smiljanić: **Network topology exchange between NetFPGA-10G and Quagga routing platforms**
- 2.4. Sonja Filiposka, Yuri Demchenko, Daniel Arbel, Anastas Mishev, Migiel de Vos, Tasos Karaliotas, Damir Regvart: **Enabling High Performing Cloud Computing Using Zero Touch Provisioning**
- 2.5. Roman V. Gridasov, Alexander A. Bakhtin, Alexander G. Timoshenko, Ilya V. Muravyev, Ksenia M. Lomovskaya, Olga P. Simonova, Oleg A. Mikhailov, Roman E. Fiodorov, Alexander S. Kryltsov: **Full Route Energy Cost Metric**
- 2.6. Radu Alexandru Badea, Eugen Borcoci: **Call-Delay Investigation in a Client-Content Server Environment**
- 2.7. Dejana Ugrenović, Gordana Gardašević: **CoAP protocol for Web-based monitoring in IoT healthcare applications**
- 2.8. Cise Midoglu, Philipp Svoboda, Markus Rupp: **Modeling Indoor WLAN Performance Towards User-Oriented Evaluation Metrics**
- 2.9. Tatjana Kapus: **Analysing the Effect of CCA Duration in 802.15.4 Networks with Hidden Nodes by Using PRISM**
- 2.10. Madalina Oproiu, Alexandru Vulpe, Ion Marghescu: **Effects of Enabling Carrier**

Aggregation in a Mobile Operator Network

- 2.11. Nemanja Zdravković: **Outage analysis in clustered cooperative networks over κ fading channels**
- 2.12. Slavica Tomović, Igor Radusinović: **Performance analysis of a new SDN-based WSN architecture**
- 2.13. Predrag Vuletić: **Primena WSN-a u železničkom inteligentnom transportnom sistemu (RITS)**
- 2.14. Hrvoje Vojvodić, Tomislav Bubalo, Darko Bokulić: **Strojna razmjena (M2M) prometnih i putnih podataka**
- 2.15. Tomislav B. Unkašević, Miroslav V. Perić, Zoran Đ. Banjac: **O osetljivosti kriptografskih sistema**
- 2.16. Kurt Richter: **A Brief Historic Review on Transatlantic Telecommunication – from transatlantic cables to satellite communication (*invited presentation*)**
- 2.17. Alen Begović, Namir Škaljo, Narcis Behlilović: **A simple model of copper local loop for use in current DSL applications**
- 2.18. Aleksandra Đorić, Nataša Maleš-Ilić, Aleksandar Atanasković: **Linearization of Microstrip RF Power Amplifier Loaded with the Broadband Matching Circuits for the Efficiency Maintenance**
- 2.19. Dinh Van Linh, Simona V. Halunga, Alexandru Vulpe: **Evaluation of coded OFDM systems using different type of codes**
- 2.21. Konstantin N. Lovtsov, Nikita S. Sukhov, Vladislav B. Tsekhansky, Andrei M. Sukhov: **Observaion of gravitational redshift in the telecommunications environment**
- 2.22. Nikita I. Vinogradov, Evgeny S. Sagatov, Andrei M. Sukhov: **Device for measuring one-way network delay with microsecond accuracy**

- 3.1. Savo Glišić: **Advanced Wireless Networks – 5G/6G Joint Design of Technology and Business Models (*invited paper*)**
- 3.2. Alexey Trushanin, Grigory Serebryakov, Mikhail Shashanov, Mikhail Shkerin, Roman Maslennikov: **Evaluation of Load Balancing in HSUPA**
- 3.3. Nikola Petrović, Dušan Savković: **LTE Performance in a Hybrid Indoor DAS (Active vs. Passive)**
- 3.4. Mladen Koprivica, Vladimir Slavković, Milica Popović, Jelena Milinković, Aleksandar Nešković: **Experimental Analysis of Duty Factor for WLAN User Devices**
- 3.5. Jevgenij Krivochiza, Jurgis Aleksandravicius, Rimvydas Aleksiejunas, Paulina Bauzyte, Vytautas Jonkus, Kestutis Svirskas: **MIMO Antenna Selection Analysis Based on QoS and Antenna Correlation Indicator Statistics**
- 3.6. Marija Z. Malnar, Nataša J. Nešković, Aleksandar M. Nešković: **Optimization of Routing Protocols and Metrics for Multi-Channel Multi-Interface Wireless Mesh Networks (*invited paper*)**
- 3.7. Luis Irio, Rodolfo Oliveira: **Interference Estimation in Wireless Mobile Random Waypoint Networks**
- 3.8. Majda Petrić, Aleksandar Nešković, Nataša Nešković: **Dynamic k Nearest Neighbours model for mobile user indoor positioning**
- 3.9. Vitomir Djaja-Josko, Jerzy Kolakowski: **UWB positioning system for elderly persons monitoring**
- 3.10. Jerzy Kolakowski, Vitomir Djaja-Josko, Ryszard Michnowski, Karol Radecki: **UWB wireless system for falling down detection**
- 3.11. Aleksandar V. Marković, Zoran H. Perić, Branimir S. Jakšić, Petar Lj. Spalević, Abdalmalik Amnisi: **Level Crossing Rate of SC Macrodiversity System with three SC Microdiversity Receivers over Shadowed α - κ - μ Fading Channel**
- 3.12. Igor A. Tomić, Milutin S. Davidović, Sanja M. Bjeković: **On the downlink capacity of LTE cell (*invited paper*)**
- 3.13. Lazar Berbakov, Marko Beko: **One Bit of Feedback Power Allocataion Algorithm for**

Collaborative Beamforming in Wireless Sensor Network

- 3.14. M. Danilo Abrignani, Giulio Contino, Chiara Buratti, Roberto Verdone: **Fast-Deployment and Continuous Monitoring through REM: A Low-Cost Device Prototype**
- 3.15. M. Mehdawi, N. G. Riley, M. Ammar, A. Fanan, M. Zolfaghari: **Spectrum Occupancy Measurements and Lessons Learned in the Context of Cognitive Radio**
- 3.16. A. Fanan, N. Riley, M. Mehdawi, M. Anmmar, M. Zolfaghari: **Comparison of Spectrum Occupancy Measurements using Software Defined Radio RTL-SDR with a Conventional Spectrum Analyzer approach**
- 3.17. Mohamed Abdelmonem Abouelela, Marawan Mohamed Abouelela: **Wireless Communication Role in Home Energy Management System (HEMS)**
- 3.18. Uglješa Urošević, Zoran Veljović: **Distribuirane MIMO tehnike u bežičnim senzorskim mrežama sa relejima**
- 3.19. Maja B. Rosić, Mirjana I. Simić, Predrag V. Pejović: **Određivanje optimalne lokacije predajnika u realnom radio kanalu**
- 3.20. N. Maletić, M. Čabarkapa, N. Nešković, A. Nešković, D. Budimir: **Uticaj nelinearnog releja na vjerovatnoću otkaza kooperativnog AF sistema**
- 3.21. Hana Stefanović, Dejan Milić: **Uticaj nelinearnosti pojačavača velike snage na degradaciju signala na satelitskom transponderu**
- 3.22. Uroš Pešović, Dušan Glic, Peter Planinšič, Zoran Stamenković, Siniša Randić: **Implementation of coherent IEEE 802.15.4 receiver on software defined radio platform**
- 3.23. Jelena P. Davidović, Goran B. Marković: **Analiza hijerarhijskih protokola rutiranja u bežičnim senzorskim mrežama većih dimenzija u uslovima neidealne konektivnosti**
- 3.24. Selena Vukotić, Desimir Vučić: **Detekcija i klasifikacija OFDM/QAM i OFDM/OQAM signala na bazi ciklostacionarnih obeležja**

- 4.1. Hannes Toepfer, Elena Chervakova, Marco Goetze, Tino Hutschenreuther, Bojana Nikolić, Bojan Dimitrijević: **Application of Wireless Sensors Within a Traffic Monitoring System (*invited paper*)**
- 4.2. Zoran Golubičić: **Digital beam former for multibeam multistatic radar receiver (*invited paper*)**
- 4.3. Nenad Milošević, Zorica Nikolić, Filip Jelenković, Valentina Nejković, Milorad Tošić, Ivan Šeškar: **Spectrum Sensing for the Unlicensed Band Cognitive Radio**
- 4.4. Vladimir R. Krstić, Bojan R. Dimitrijević, Miloš V. Bandur: **A Stochastic Whitening Algorithm with Time Variable Neuron Slope for Blind DFE**
- 4.5. Leontin Tuta, Alexandru Grivei, Ioan Nicolaescu, Madalina Moni: **Linear antenna array beamforming algorithm for coherent incident signals**
- 4.6. Madalina-Varvara Moni, Leontin Tuta: **Cylindrical Dielectric Resonator Antenna for Wireless Applications**
- 4.7. Vesna M. Blagojević, Predrag N. Ivaniš: **Ergodic capacity of multi-antenna spectrum sharing cognitive radio with outdated CSI (*invited paper*)**
- 4.8. Marko Simeunović, Andrej Mihalović, Milica Pejanović-Djurišić: **Setting Up a Multi-Purpose Internet of Things System**
- 4.9. Tauseef Ahmed, Yannick Le Moullec: **Frequency and Power Allocation Schemes for Heterogeneous Networks including Femto Cells**
- 4.10. Kerem Ok, Vedat Coskun, Cem Cevikbas, Busra Ozdenizeci: **Design of a Key Exchange Protocol between SIM Card and Service Provider**
- 4.11. David Todoli-Ferrandis, Salvador Santonja-Climent, Victor Sempere-Paya, Javier Silvestre-Blanes: **RPL Routing in a real life scenario with an energy efficient objective function**
- 4.12. Marijana Vujović, Milan Savić, Dejan Stefanović, Ištvan Pap: **Upotreba NGINX i Websocket tehnologija u IoT primeni**
- 4.13. Milica Petković: **Performance analysis of mixed RF/FSO systems (*invited paper*)**
- 4.14. Časlav Stefanović, Milica I. Petković, Bojana Nikolić, Goran T. Đorđević: **Effect of phase noise on error performance of DE-QPSK receiver over $k-\mu$ fading channel**

- 4.15. Aleksandra Popovska-Mitrovikj, Vladimir Ilievski, Verica Bakeva: **Performances of Random Codes Based on Quasigroups for transmission of audio files**
- 4.16. Jan Broulim, Pavel Broulim, Jan Moldaschl, Vjačeslav Georgiev, Radek Šalom: **Fully parallel FPGA decoder for irregular LDPC codes**
- 4.17. Stefan Scholl, Norbert Wehn: **Efficient Architectures for Parity Check Matrix Generation**
- 4.18. Maja Delibašić, Milica Pejanović-Đurišić: **Non-Regenerative Cooperative Relaying in Precise Agriculture Communication Platform**
- 4.19. Časlav M. Stefanović: **Macrodiversity System with Macrodiversity SSC Receiver and two SC Microdiversity Receivers in the presence of Composite Fading Environmen**
- 4.20. Milorad Tošić, Valentina Nejković, Filip Jelenković, Nenad Milošević, Zorica Nikolić, Ivan Seskar: **The CoordSS experimentation framework ontologies**
- 4.21. Andrey D. Zolotuev, Frangiz G. Khisamov, Maksim V. Milovanov, Denis M. Sobachkin: **MC-DS-CDMA Pseudo-Noise Acquisition Algorithm Research Using Computer Model**
- 4.22. A. Oguz Kislal, Arda Demiray, Osman Ceylan, H. Bulent Yagci: **Implementation of a Software Defined FM Mixed Demodulator on FPGA**
- 4.24. Estefania Etcheves Miciolino, Giuseppe Bernieri, Federica Pascucci, Roberto Setola: **Communications Network Analysis in a SCADA System Testbed Under Cyber-Attacks**
- 4.25. Alen Hodžić, Edin Mujčić: **Teleoperation System Control Based on The Method for Supervisory Control With Variable Time Delay**
- 4.26. A. Filippou, D. A. Karras, I. Tsatrafyllis: **On the Detailed Design Issues of a Multi-Agent Architecture based on CUDA threads towards efficiently Simulating WSN Systems**
- 5.1. Predrag R. Tadić, Željko M. Đurović, Aleksandra Lj. Marjanović, Sanja M. Vujnović: **Fault diagnosis in nonlinear stochastic systems via particle filtering (*invited paper*)**
- 5.3. Venceslav Kafedziski, Slavche Pejovski: **Compressed Sensing MRI Using Nonseparable Shearlet Transform and Split Bregman Algorithm**
- 5.4. Slavche Pejovski, Venceslav Kafedziski: **Simplified Analysis of Orthogonal Matching Pursuit Performance in Compressed Sensing**
- 5.5. Isidora Stanković, Andjela Draganić: **Compressive Sensing Reconstruction of Video Data based on DCT and Gradient-Descent Method**
- 5.6. Andjela Draganić, Irena orović, Srdjan Stanković: **Compressive Sensing Least Square problem solution suitable for implementation**
- 5.7. Andjela Draganić, Irena Orović, Srdjan Stanković: **Robust Hermite transform based on the L-estimate principle**
- 5.8. Miloš Brajović, Irena Orović, Miloš Daković, Srdan Stanković: **The Analysis of Missing Samples in Signals Sparse in the Hermite Transform Domain**
- 5.9. Milan R. Dinčić, Zoran H. Perić, Dragan B. Denić: **Designing Quantizes for Coding Signals with Fixed and Variable Codeword Length (*invited paper*)**
- 5.10. Maksim Butsenko, Tonu Trump: **An Affine Combination of Adaptive Filters for Sparse Impulse Response Identification**
- 5.11. Vladimir Marchuk, Sergey Makov, Dmitry Timofeev, Marina Pismenskova, Alexandr Fisunov: **A method of signal estimation error reduction in a priori indeterminacy**
- 5.12. Bojan D. Banjac, Marija V. Nenezić, Branko J. Malešević: **Some applications of λ -method for obtaining approximation in filter design**
- 5.13. Biljana P. Stošić, Vlastimir D. Pavlović, Dejan N. Milić: **Novel Selective CIC Filter Functions with Improved Magnitude Response Characteristics**
- 5.14. Milica Lj. Katić, Jelena D. Čertić: **Multi-stage Comb based Decimation Filter**
- 5.15. Nikola Andrić, Milan Rusić, Robert Pečkai-Kovač, Jelena Kovačević: **Implementacija DSP modula za upravljanje niskofrekventnim sadržajem**
- 5.16. Ivan D. Jokić, Stevan D. Jokić, Vlado D. Delić, Zoran H. Perić: **Mel-Frequency Cepstral Coefficients as Features for Automatic Speaker Recognition (*invited paper*)**
- 5.17. Tijana Delić, Simona Đurić, Slobodan Jošić: **Poređenje ljudskog i automatskog**

- prepoznavanja govornika u slučaju imitacija**
- 5.18. Vojislav Z. Lukić, Aleksej Makarov, Guowei Tao, Bhaskar Choubey: **Vehicle Speed Estimation From Tracking License Plates**
 - 5.19. Stefan Mijić, Ivan Mezei, Rastislav Struharik: **IP Cores 2D Direct and Inverse Discrete Cosine Transformation**
 - 5.20. Cosmin Danisor, Gianfranco Fornaro, Mihai Datcu: **Comaprative Study of SAR Tomographic Reconstruction Algorithms**
 - 5.21. Abdulrazaq Muhammad B., Ahmed Mohammed Z., Davey Paul: **Concatenated 2D SOVA for Two Dimensional Maximum Likelihood Detection**
 - 5.22. Branimir Vasić, Stanislav Očovaj, Darko Lauš, Željko Lukač: **Optimizacija H.264 video dekodera iz Android OS za MIPS32 DSP ASE arhitekturu**
 - 5.23. Francesca Murgia, Daniele Giusto, Cristian Perra: **3D Reconstruction from Plenoptic Image**
 - 5.24. Andrej M. Savić, Mirjana B. Popović: **Brain Computer Interface Prototypes for Upper Limb Rehabilitation: a Review of Principles and Experimental Results (invited paper)**
 - 5.25. Vera Miler Jerković, Vladimir Kojić, Mirjana B. Popović: **Linear Discriminant Analysis: Classification of On-Surface and In-Air Handwriting**
 - 5.26. Eva Tuba, Nebojša Bačaniin: **An Algorithm for Handwritten Digit Recognition Using Projection Histograms and SVM Classifier**
 - 5.27. Branislav Gerazov, Philip N. Garner: **An Investigation of Muscle Models for Physiologically Based Intonation Modelling**
 - 5.28. Aleksandra Arsić, Miloš Jordanski, Milan Tuba: **Improved Lip Detection Algorithm Based on Region Segmentation and Edge Detection**
 - 5.29. Vladimir Ostojić, Djordje Starčević, Vladimir Petrović: **Detection of collimation field in digital radiography using Frobenius norm of Hessian**
 - 5.30. Milica M. Janković, Milorad P. Paskaš, Ana Koljević Marković: **Fractal Dimension of Time-Activity Curves in Dynamic Parathyroid Scintigraphy**
 - 5.31. Branka Stojanović, Aleksandar Nešković, Oge Marques: **Fingerprint ROI Segmentation Using Fourier Coefficients and Neural Networks**
 - 5.32. Slaviša Tomić, Marko Beko, Rui Dinis, Lazar Barbakov: **Cooperative Localization in Wireless Sensor Networks Using Combined Measurements**
 - 5.33. Marko Beko, Rui Dinis, Goran Dimić, Milan Tuba, Paulo Montezuma: **A Geodesic Descent Technique for PAPR Reduction in MIMO-OFDM**
 - 5.34. Miladin Jovanović, Dejan Čotra, Radisav Stamenković, Velibor Ilić: **Programska implementacija sistema za prikupljanje i obradu signala sa elektronskih kontrolnih jedinica u automobilskoj mreži**
 - 5.35. Alexandru Amaricai, Oana Boncalo, Ioana Mot: **Memory efficient FPGA implementation for flooded LDPC decoder**
 - 5.36. Velibor Škobić, Nebojša Pjevalica, Miloš Nikolić: **Verification of Frequency Analysis Experimental Setup**
 - 5.37. Jelena Janković, Miloš Subotić, Vladimir Marinković: **One Solution of the Accurate Summation Using Fixed-point Accumulator**
 - 5.38. Pavel Fiala, Richard Linhart: **High efficient Carrier Phase Synchronization for SDR Using CORDIC implemented on an FPGA**
 - 5.39. Davor Doder, Nenad Četić, Miroslav Popović, Jelena Kovačević: **Realisation of server application for acoustic sensors based on RTSP, RTP protocols**
- 6.1. Snežana Lj. Stefanovski Pajović, Milka M. Potrebić, Dejan V. Tošić: **Microwave Bandpass and Bandstop Waveguide Filters Using Printed-Circuit Discontinuities (invited paper)**
 - 6.2. Naser Ojaroudiparchin: **Low-Cost Planar MM-Wave Phased Array Antenna for Use in Mobile Satellite (MSAT) Platforms**
 - 6.3. D. Palessonga, M. El Gibari, S. Ginestar, H. Terrisse, B. Guiffard, A. Kassiba, H. W. Li: **Tuning of Microwave and Optical Properties of the Electro-Optic Polymer PMMA-**

DR1 by Loading with SiC Nanoparticles for Optimization of Photonic Microwave Components

- 6.4. Vasily Yu. Kozhevnikov, Vladimir Yu. Konev, Alexey I. Klimov: **Coherent radiation summation of two X-band nanosecond Gunn oscillators synchronized by a modulating pulse**
- 6.5. J. Bjelica, N. Djurić, D. Kljajić, M. Milutinov, A. Fanti: **The Boundary Exposure Assessment for Continuous Monitoring of the Low-Frequency EMF**
- 6.6. M. Zolfaghari, N. G. Riley, M. Mehdawi, A. Fanan, M. Ammar, F. Meng: **Quality Measurements of an UWB Reduced-size CPW-fed Aperture Antenna**
- 6.7. Ana Jovanović, Luka Lazović, Vesna Rubežić: **Prilagodjenje dijagrama zračenja kratkih antenskih nizova upotrebom haotičnog beamforming algoritma**
- 6.8. Dejan M. Miljanović, Milka M. Potrebić, Dejan V. Tošić: **Microwave Bandpass Filter with Quasi-Lumped Elements (*invited paper*)**
- 6.9. Naser Ojaroudiparchin: **Multi-Layer 5G Mobile Phone Antenna for Multi-User MIMO Communications**
- 6.10. Theodoros K. Katsibas, Vasileios Vlachos, Costas Chaikalis, Konstantinos P. Tsoukatos, Charalampos Liolios: **Advanced Numerical Solution Algorithms for Modern EM Wave Propagation Problems**
- 6.11. Massinissa Hadjloum, Mohammed El Gibari, Hongwu Li, Afshin S. Daryoush: **Electrode Structure for both Poling and Driving of the Electro-Optic Polymer in an Analog-to-Digital Converter based on an Optical Deflector**
- 6.13. Selcuk Ozgur, Mehmet Abbak, Ibrahim Akduman: **A Comparison of Range Test Method-Linear Sampling Method for Microwave Imaging**
- 6.14. Nataša J. Nešić, Nebojša S. Dončov: **Analysis of TLM Air-vent Model Applicability to EMC Problems**
- 6.15. Konstantinos I. Maniotis, George S. Kliros: **Design of an Ultra-Thin Bandwidth-Optimized Metamaterial Absorber for EMC Applications**
- 6.16. Naser Ojaroudiparchin: **Design of Vivaldi Antenna Array with End-Fire Beam Steering Function for 5G Mobile Terminals**
- 6.17. Mohammed El Gibari, Sara Bretin, Massinissa Hadjloum, Patrick Derval, Hongwu Li: **Coplanar Waveguide to Microstrip Transition in Thin Polymer Film for Characterization and Packaging of Microwave Photonic Components**
- 6.18. Veljko Crnadak, Siniša Tasić: **VHF Quadrature Hybrid Coupler**
- 6.19. Nebojša U. Pjevalica, Nenad S. Petrović, Miloš M. Nikolić: **Detection of the External Magnetic field Polarity Through the Inductance Voltage Harmonic Phase Order**
- 6.20. Mehmet Abbak, Selcuk Ozgur, Ibrahim Akduman: **Shorted Stacked Antenna with Folded Feed for Microwave Detection of Brain Stroke**

- 7.1. Nenad J. Jevtić, Vujo R. Drndarević: **Smart Sensors for Environmental Radiation Monitoring Networks (*invited paper*)**
- 7.2. Vasily Yu. Kozhevnikov, Andrey V. Kozyref, Alexander V. Batrakov, Natalia S. Semeniuk, Vadim M. Karaban: **Diagnostics of primary arcing in electronics of satellite telecommunication systems**
- 7.3. Nemanja V. Janković, Svetislav V. Ćirić, Nenad S. Jovičić: **System for indoor localization of mobile robots by using machine vision**
- 7.4. Trifun Savić, Milutin Radonjić: **One Approach to Weather Station Design Based on Raspberry Pi Platform**
- 7.6. Nedjeljko Lekić, Slobodan Djukanović, Mililja Bajčeta, Trifun Savić: **A Bioinformatic System for Collecting and Processing Environmental Data**
- 7.7. Nataša S. Živić, Obaid Ur-Rehman, Christoph Ruland: **Evolution of Smart Metering Systems**
- 7.8. Pavel Broulim, Jan Bartovsky, Jan Broulim, Petr Burian, Vjačeslav Georgiev, Michael Holik, Vaclav Kraus, Aleš Krutina, Jan Moldaschl, Vladimir Pavliček, Stanislav Pospíšil, Jakub

- Vlašek: **Compact device for detecting single event effects in semiconductor components**
- 7.9. Radek Salom, Jan Broulim: **LDPC (512,480) Genetic Design as Alternative to CRC in Implementation of AODV Routing Protocol Stack**
- 7.10. Jiri Žahour, Jindrich Krivka, Kamil Kosturik, Sten Fredholm: **Self-sufficient System for NOx Reduction**
- 7.11. Denys I. Zaikin: **Round and Tubular Wire Skin Effect Modeling and Usage SPICE as Maxwell's Equations Solver**
- 7.12. Jindrich Krivka, Jiri Zahour, Kamil Kosturik, Sten Fredholm: **Automatic Detection of Different Mechanical ERDPF Configurations**
- 7.13. Ludek Elis, Kamil Kosturik: **The Extrapolation of Failure Rate of Electrical Components in Specific Operational Conditions**
- 7.14. Lukas Pusman, Pavel Turjanica, Kamil Kosturik: **Verification of Train Localization by Using Inertial Measurement System and Identification of Characteristic Segments**
- 7.15. Petr Burian: **Managing Large-Scale FPGA Design for Generic Embedded Control System**
- 7.16. Gennady Galustov, Viacheslav Voronin: **Parameters estimation of random sequence in the stochastic calculating devices**
- 7.17. Strahinja P. Janković, Vujo R. Drndarević: **Microcontroller Power Consumption Measurement Based on PSoC**
- 7.18. Ondrej Lufinka: **Design of the New Advanced Modes for the Mobile Platform Control Application**
- 7.19. Pavle Stepanić, Aleksa Krošnjar, Goran Pavlović, Aleksandar Stepanović: **Implementation of wireless control on electrical bridge cranes and gantry crane**
- 7.20. Djordje Pešić, Ivan Ratković: **An Efficient FPGA Implementation of Floating Point Addition**
- 7.21. Nina Fat, Ištvan Pap, Aleksandar Živković: **Kapacitivni sensor dodira sa niskom potrošnjomž**
- 8.1. Sandra Sovilj-Nikić, Ivan Sovilj-Nikić: **The Development of Phone Duration Model in Speech Synthesis in the Serbian Language (*invited paper*)**
- 8.2. Miodrag Stanojević, Miloš Bjelić, Jelena Čertić, Dragana Šumarac Pavlović: **Psihoakustička analiza uticaja parametara decimacionih filtara na kvalitet audio signala**
- 8.3. Danica Č. Boljević, Aleksandar H. Milenković, Damir M. Savković: **Prikaz rezultata međulaboratorijskog poređenja nacionalnih akreditovanih laboratorija iz oblasti merenja nivoa buke na otvorenom prostoru**
- 8.4. Jelena Tomić, Nebojša Bogojević: **Comparative analysis of European models for railway noise prediction**
- 8.5. Zoran M. Miličević, Zoran S. Bojković: **Performance of High Efficiency Video Coding (HEVC) HM-16.6 Encoder**
- 8.6. P. M. Papazoglou, D. A. Karras, R. C. Papademetriou: **Dynamic Channel Assignment algorithms for supporting QoS based services in wireless cellular environments**
- 8.7. Mihai Gavrilesco: **Recognizing emotions from videos by studying facial expressions, body postures and hand gestures**
- 8.8. Goran J. Zajić: **Shot-Change Detection Based on Multifractal Analysis (*invited paper*)**
- 8.9. Goran J. Zajić, Milena D. Vesić, Ana M. Gavrovska, Irini S. Reljin: **Animation Frame Analysis**
- 8.10. Ali Akbari, Habibollah Danyali, Maria Trocan, Bertrand Granado: **A Novel Robust Image Transmission Scheme over Lossy Channels using Data Hiding**
- 8.11. Dragana Sandić-Stanković, Dragan Kukulj, Patrick le Callet: **Mera za ocenu kvaliteta slike zasnovana na piramidalnoj dekompoziciji i srednjoj kvadratnoj greški**
- 8.12. Javier Silvestre-Blanes: **Scalability in industrial image processing applications**
- 8.13. Diana Mandache, Ali Akbari, Maria Trocan: **Image Compressed Sensing Recovery Using Intra-Block Prediction**

- 8.14. Ivan Trebaljevac, Živko Bojović: **Business model for the Internet and mobile based marketing for the smart parking operators**
- 8.15. Ilija Bašičević, Milan Ačanski, Nikola Teslić, Miroslav Popović, Miloš Nikolić: **The Concept of Remote Tuner in Digital Television Software**
- 8.16. Rade Vulin, Tatjana Samardžić, Đorđe Simić, Branimir Kovačević: **Jedno rešenje realizacije programske podrške za obradu WebVTI prevoda prilikom reprodukcije HLS tokova podataka upotrebom FFmpeg biblioteka**
- 8.17. Darko Lulić, Mario Radonjić, Milena Milošević, Krsto Lazić: **Jedno rešenje integracije MPEG-DASH programske podrške na Android platformi**
- 8.18. Ljubomir J. Papuga, Đorđe M. Pešut, Teodora Đ. Novković, Stanislav Očovaj: **Optimizacija algoritama iz biblioteke WebRTC za MIPS arhitekturu**
- 8.19. Nemanja Fimić, Sreten Tanacković, Ilija Bašičević, Nikola Teslić: **PVR Trick-mode Emulation through Consecutive Jumps**
- 8.20. Nemanja Popović, Vladimir Živkov, Ilija Đukić, Ilija Bašičević: **Jedno rešenje programske podrške za kombinovanje DVB toka podataka i podataka sa mrežnog poslužioaca na hibridnim STB uređajima**
- 8.21. Nedeljko Babić, Nikola Teslić, Teodora Novković, Branimir Vasić: **Optimizacija MP3 dekodera iz multimedijalne biblioteke FFmpeg za arhitekturu MIPS32R2**
- 8.22. Milena Milošević, Branko Rodaljević, Miloš Pejović, Mario Radonjić: **One Implementation of Companion Screen Functionality for Hybrid Broadcast Broadband Television**
- 8.23. Nenad Jovanović, Goran Stupar, Nikola Teslić, Milan Bjelica: **One Solution for Rendering Translucent 2D UI Elements in 3D Space**
- 8.24. Milorad P. Paskaš, Branimir D. Reljin, Irini S. Reljin: **Multifractal Techniques for Texture Classification and Image Filtering (*invited paper*)**
- 8.25. Aleksej Avramović, Igor Ševo, Irini Reljin: **Comparative analysis of texture classification based on low and high order local feature**
- 8.26. Marijeta Slavković-Ilić, Ana Gavrovska, Milan Milivojević, Irini Reljin, Branimir Reljin: **Algoritam za automatsku segmentaciju dojke i grudnog mišića iz mamograma**
- 8.27. Antonis Mairgiotis, Dimitrios Ventzas: **Video watermark detection in DCT domain for H.264/AVC through a hierarchical prior**
- 8.28. Andreja Samčović, Marija Milovanović: **Robust Digital Image Watermarking Based on Wavelet Transform and Spread Spectrum Techniques**
- 8.29. Viktor Tuba, Marko Beko: **DCT Based Algorithm for Blurred Regions Determination in Digital Images**
- 8.30. Miloš Jordanski, Aleksandra Arsić, Milan Tuba: **Dynamic Recursive Subimage histogram Equalization Algorithm for Image Contrast Enhancement**
- 9.1. Valentina Janev, Vuk Mijović, Sanja Vraneš: **Linked Data Approach to the PSI Directive Implementation: Supporting Tools and Lessons Learned**
- 9.2. Bojan Najdenov, Goran Petkovski, Milos Jovanovic, Riste Stojanov, Dimitar Trajanov: **Automated Linked Data Generation from the Transport Administration Domain**
- 9.3. Dragiša Stjepanović, Mihajlo Savić, Jelena Jokić, Slavko Marić: **Performance Measurements of Some Aspects of Multi-threaded Access to Key-value stores**
- 9.4. Duško Lukač: **The fourth ICT-based Industrial Revolution “Industry 4.0” – HMI and the case of CAE/CAD innovation with EPLAN P8**
- 9.5. Miroslav Lutovac, Vladimir Mladenović, Dragutin Debeljković: **Analiza sistema sa čistim vremenskim kašnjenjem korišćenjem računarskih algebarskih sistema**
- 9.6. Đorđe Kovačević, Stefan Pejić, Petar Jovanović, Nikola Teslić: **Prilagodavanje programskog prevodioca LuaJIT arhitekturi MIPS32 bez jedinice za operacije u aritmetici pokretnog zarezca**
- 9.7. Violeta Vukobrat, Branislav Rankov, Petar Jovanović, Miroslav Popović: **Realizacija alata za generisanje sprege jezika Lua i C mehanizmom prevodioca LuaJIT**

- 9.8. Milica M. Janković, Mila Todorović-Tirnanić, Ana Koljević Marković, Slobodanka Beatović, Strahinja Odalović, Boris Pijetlović, Stevan Sekulić, Nikola Jorgovanović, Vojislav Antić, Dejan Popović: **GammaKey Software for Acquiring, Storing, Retrieving and Processing Images Obtained by Gamma Camera – benefits for clinical practice (invited paper)**
- 9.9. Branislav Popović, Edvin Pakoci, Nikša Jakovljević, Goran Kočiš, Darko Pekar: **Voice Assistant Application for the Serbian Language**
- 9.10. Danilo Kovačević, Momčilo Krunić, Nenad Četić, Jelena Kovačević: **Xtext-based Eclipse editor for linker configuration file**
- 9.11. Milana Barać, Sandra Kukulj, Milana Antin, Dragan Kukulj: **Softverska podrška procesa upravljanja intelektualnom svojinom**
- 9.12. Aleksandar Milenković, Dragan Janković, Marija Stojković, Aleksandar Veljanovski, Petar Rajković: **Softverski modul za evidentiranje pruženih zdravstvenih usluga i utrošenih medikamenata u stacionaru**
- 9.13. Milan Jelisavčić, Nikola Veljković, Lazar Tršić, Dušan Majstorović: **Prilagođavanje operativnog sistema Fajrfoks OS za arhitekturu MIPS32**
- 9.14. Nemanja Obradović, Stevica Đukić, Goran Miljković, Bogdan Korać: **Jedno rešenje udaljene korisničke sprege za nadzor i kontrolu elektronskih uređaja**
- 9.15. Ejub Kajan, Aldina Avdić, Ulfeta Marovac, Adela Ljajić, Goran Simić, Jelena Stanković: **Enhancing Local Economic Development Using Collective Intelligence**
- 9.16. Jovan Popović, Sofija Purić, Marko Batić, Dragan Bojić: **Enhancing Use Case Point estimation method using Fuzzy algorithms**
- 9.17. Elma Hot, Vesna Popović-Bugarin: **Soil data clustering by using K-means and fuzzy K-means algorithm**
- 9.18. Miljan Vučetić, Miroslav Hudec: **A Relational Database Role in Handling Fuzziness of Real World**
- 9.19. Cristian L. Leca, Leontin Tuță, Ioan Nicolaescu, Cristian I. Rîncu: **Recent advances in location prediction methods for cellular communication networks**
- 9.20. Dimitrios Tselios, Ilias K. Savvas: **Analysis of the results obtained by Intelligent Method for Project Portfolio Scheduling**
- 9.21. Alexandru-Cosmin Grivei, Mihai Datcu: **HyperMINE – An Earth Observation Spatio-Temporal Data Mining System**
- 9.22. Miloš Ilić, Petar Spalević, Mladen Veinović, Abdolkarim Abdala M. Ennaas: **Data mining model for early fruit diseases detection**
- 9.23. Ioannis C. Stylios, Sotirios Chatzis, Olga Thanou, Spyros Kokolakis: **Mobile Phones & Behavioral Modalities: Surveying users' practices**
- 9.24. Željko Jovanović, Ranko Bačević, Radoljub Marković, Siniša Randjić: **Android Application for Observing Data Streams from Built-in Sensors Using RxJava**
- 9.25. Dijana Jagodić, Dejan Vujičić, Siniša Randić: **Android system for identification of objects based on QR code**
- 9.26. Aleksandar D. Keleč, Dijana R. Vuković: **Privacy threats on Android devices – Big Brother is Watching you**
- 9.27. Filip Vranešević, Tomislav Sajdl, Nebojša Perić, Nikola Vranić: **Pregled metoda za poboljšanje bezbednosti Androida za potrebe sistema uslovnog pristupa u digitalnoj televiziji**

- 9.28. Aleksandar Ćurguz, Tomislav Maruna, Branimir Kovačević, Milan Z. Bjelica: **Android aplikacija kao servis roditeljske kontrole u automobilu**
- 9.29. Aleksandar Marković, Aleksandar Rikalo, Miodrag Dinić, Miroslav Tišma, Petar Jovanović: **Stablo uređaja u jezgri Linuksa i podrška za emulator QEMU i OS Android**
- 9.30. Nikola Puača, Marko Kovačević, Branimir Kovačević, Tomislav Maruna: **Jedna realizacija Android servisa za komunikaciju sa jedinicom za kontrolu automobila**
- 9.31. Žarko S. Stanisavljević: **Data Encryption Standard Visual Representation (*invited paper*)**
- 9.32. Maja M. Lutovac, Zoran Dimić, Stefan Mitrović, Aleksandar Stepanović: **Reconfigurable Multi-robot Virtual Environment**
- 9.33. Violeta Čikoš, Marko Kovačević, Branimir Kovačević, Gordana Velikić: **3D korisničko okruženje za prikaz podataka na kontrolnoj tabli vozila**
- 9.34. Dušan Tatić, Bojan Tešić: **Unapređenje sistema zaštite na radu primenom tehnologije proširene stvarnosti**
- 9.35. Ivan Rajković, Velibor Ilić, Bojan Z. Majstorović, Ivica Hariba: **Prikaz signala elektronskih upravljačkih jedinica u realnom vremenu na mobilnim platformama**
- 9.36. Miodrag Živković: **eWISENS – simulation of the wireless sensor networks and graph algorithms (*invited paper*)**
- 9.37. Nikola Zogović, Miloš Jevtić, Valentina Timčenko, Borislav Đorđević: **A Multi-objective Assessment Framework for Cloud Computing**
- 9.38. Elena Markoska, Magdalena Kostoska, Sasko Ristov, Marjan Gusev: **Using P-TOSCA to prevent Vendor Lock-in for Cloud-based Laboratories**
- 9.39. Elena Markoska, Nevena Ackovska, Sasko Ristov, Marjan Gusev, Magdalena Kostoska: **Software Design Patterns to Develop an Interoperable Cloud Environment**
- 9.40. Dušan V. Nikolov, Marko J. Mišić, Milo V. Tomašević: **GPU-based Implementation of Reverb Effect**
- 9.41. Alvin Huseinović, Samir Ribić: **Benchmark comparison of computing the Mandelbrot set in OpenCL**
- 9.42. Ace Dimitrevski, Vladimir Trajković, Sonja Filiposka: **Web caching and content switching for performance of content delivery**
- 9.43. Miroslava Dražić Vignjević, Marko Vučićević, Miodrag Djukić, Boris Radin: **Efficient Adaptation and High Reusability of Test Suites in a Black Box Testing Environment**
- 9.44. Ivan Považan, Marko Krnjetin, Nenad Četić: **Communication Interface Libraries as an Extension to the Debugging Framework for DSP applications**
- 9.45. Vanja Komadina, Jan Zloh, Dako Banika, Dejan Stefanović: **Automation of Nordig verification for digital TV receivers**
- 9.46. Veljko Tešić, Mirko Pap, Velibor Ilić, Miroslav Nedeljković: **Automatizacija testiranja elektronskih upravljačkih jedinica u HIL namenskom okruženju**
- 9.47. Jovica Kričković, Đorđe Miljković, Miodrag Đukić: **Automatizacija ispitivanja bootloader-a na ciljanoj DSP platformi**
- 9.48. Petar Brčić: **Testiranje performansi EMC XtremIO All-Flash sistema za skladištenje poda**

