IEEE EUROCON 2017 Detailed Programme

		Thursday, July 6th
10:00-10:45		Session 1: Opening Ceremony, Karen Bartleson, 2017 IEEE President and Margaretha Eriksson, IEEE R8 Director
10:45-11:30		Session 2: Plenary Keynote Lecture 1 _ Stephen Goodnick - Nanotechnology Enabled Pathways for Energy Conversion
11:30-12:00		Coffee Break
12:00-12:45		Session 3: Plenary Keynote Lecture 2 _ Petar Popovski - Wireless Communication Challenges in 5G towards Transforming Vertical Industries
12:45-13:30		Session 4: Plenary Keynote Lecture 3 _ Yuri Demchenko - Data Science Profession and Education
13:30-14:30		Lunch Break
14:30-16:00		Session 5A: Track 2_1 - Circuits, Systems and Signal Processing
14:30-14:45	59	Maria-Alexandra Paun. Hall mobility study of Hall structures in two different CMOS technological processes
14:45-15:00	48	Abdul Rehman Javed, Prof. Dr.-Ing. Christoph Scheytt, Karthik Krishnegowda and Prof. Dr.-Ing. Rolf Kraemer. System Design of a Mixed Signal PSSS Transceiver using a Linear Ultra-Broadband Analog Correlator for the Receiver Baseband Designed in 130 nm SiGe BiCMOS Technology
15:00-15:15	45	Cosmin-Sorin Plesa, Cristian Raducan, Marius Neag and Bogdan Dimitriu. Novel Current Limit Circuitry for LDOs
15:15-15:30	39	Khaled Khalifa. Extendable Generic Base Verification Architecture for Flash Memory Controllers Based on UVM
15:30-15:45	21	Soenke Vehring, Yaoshun Ding, Dominic Maurath, Friedel Gerfers and Georg Boeck. Link-Budget Calculations for CMOS Integrated Microwave Receivers
14:30-16:00		Session 5B: Track 3_1 - Power Engineering and Energy
14:30-14:45	108	Omid Shariati, Parisa Esmaili, Mohammad Reza Aghamohammadi and Abdullah Asuhaimi Bin Mohd Zin. Observability of Synchronous Generators' Parameters in its Dynamic Performance
14:45-15:00	176	Juraj Havelka, Goran Jurisic, Josip Tosic and Dora Mesic. Numerical Phasor Estimation Algorithms
15:00-15:15	148	Goga Cvetkovski and Lidija Petkovska. Multi-objective Optimal Design of PM Disc Motor Using Cuckoo Serach
15:15-15:30	129	Muhammed Akif Ülker and Bahri Uzunoglu. Simplex optimization for particle filter joint state and parameter estimation of dynamic power systems
15:30-15:45	99	Duško Lukač and Miljana Milić. Enhansing the Efficiency of Tracking PV System by Using ANN Based Prediction
14:30-16:00		Session 5C: STA 3_1 - Bioelectromagnetic Medicine and Bioinformatics
14:30-14:45	134	Joanna Michalowska and Andrzej Krawczyk. Exposure to electromagnetic field in the surrounding area of microtomograph for the frequency of 50Hz
14:45-15:00	112	Agnieszka Michalczuk, Kamil Wereszczyński, Adam Świtoński, Henryk Josiński and Konrad Wojciechowski. The overview of automatically supported gait analysis methods for medical diagnoses and rehabilitation
15:00-15:15	49	Paolo di Barba, Maria Mognaschi and Andrzej Krawczyk. The biogeography-inspired optimization for the design of coils for nerve stimulation
15:15-15:30	34	Anna Koziorowska, Maria Romerowicz-Misielak, Natalia Gierczak, Sebastian Gniady and Marek Koziorowski. Electromagnetic field of extremely low frequency (60Hz and 120Hz) effects the cell cycle progression and the metabolic activity of the anterior pituitary gland cells in vitro
14:30-16:00		Session 5D: STA 5 - Complex Networks and System
14:30-14:45	16	Wentao Zhu and Jovica Milanović. Cyber-physical System Failure Analysis Based on Complex Network Theory
14:45-15:00	19	Dmitry Maximov and Sergey Ryvkin. Systems Smart Effects as the Consequence of the Systems Complexity
15:00-15:15	206	Georgi Dimirovski and Yuanwei Jing. Complexity of Warfare Command, Communication and Control Systems Simplified: Optimal Resource Partitioning via Lanchester Equations
15:15-15:30	140	Bernát Wiandt, Vilmos Simon and András Kőkuti. Self-organized graph partitioning approach for multi-agent patrolling in generic graphs
15:30-15:45	120	Yushi Chen and Jovica Milanovic. Critical Appraisal of Tools and Methodologies for Studies of Cascading

		Failures in Coupled Critical Infrastructure Systems
15:45-16:00	88	Alexey Lagunov and Vladimir Terekhin. Modelling the Barents territory coverage area of satellite KA-SAT
14:30-16:00	Session 5E: PD 5 - Open Source Software, Predrag Pejović and Branislav Gerazov	
16:00-16:30	Coffee Break	
16:30-18:00	Session 6A: Track 1_1 - Information, Communication and Technology	
16:30-16:45	211	Bojan Kostadinov, Mile Jovanov and Emil Stankov. Cost-effective website failover solution through a CDN network and asynchronous replication
16:45-17:00	106	Ivana Stupar and Darko Huljenic. Analyzing Service Resource Usage Profiles for Optimization of Cloud Service Execution Cost
17:00-17:15	58	Mohamed Elgebali, Moustafa Elbery, Assem Mohamed, Ali El-Deen Shash, Amr Abdel Hamid, Hend Sadek, Hassan Halawa, Malak Elsalamouny, Ramez Daoud, Hassanein Amer, Hany Elsayed and Ahmed Khattab. Enhanced Data Gathering for Firefighting Applications
17:15-17:30	54	Faraz Fatemi Moghaddam, Philipp Wieder and Ramin Yahyapoor. POBRES: Policy-Based Re-Encryption Schema for Secure Resource Managment in Clouds
17:30-17:45	17	Mark Mallia and Carl James Debono. Rendering of Free-viewpoint Video on the Cloud
17:45-18:00	73	Igor Popov, Martin Mihajlov and Oliver Popov. mashpoint: Surfing the Web in a Data-Oriented Way
16:30-18:00	Session 6B: STA 3_2 - Bioelectromagnetic Medicine and Bioinformatics	
16:30-16:45	222	Branislav Gerazov and Raquel Cruz Conceição. Deep learning for tumour classification in homogeneous breast tissue in medical microwave imaging
16:45-17:00	171	Golubev Alexandr, Peter Bogatencov and Nicolai Iliuha. "DICOM Network" services
17:00-17:15	31	Saba Amirdehi, Khalil El Khamlichi Drissi, Christophe Pasquier, Benoit Sion, Lénaïc Monconduit and Vesna Arnautovski Toseva. Analysis of Electrophysiological Activities Using Matrix Pencil Method
17:15-17:30	64	Mohamad Mahdi, Malek Hmadeh and Fares Abdulkhalek. EasyMedz, The New Trend Medicine Preordering
16:30-18:00	Session 6C: STA 7 - Hybrid Intelligent Systems	
16:30-16:45	52	Jerzy Tchorzewski and Dariusz Rucinski. Quantum Inspired Evolutionary Algorithm to Improve the Accuracy of a Neuronal Model of the Electric Power Exchange
16:45-17:00	79	Muhammed Fatih Adak and Nejat Yumusak. Development of Smart Gas Sensor System to Classify Binary Gas Mixtures
17:00-17:15	51	Figen Ozen, Umur Kuntan and Dilek Tukel. Robot-Music Synchronization: Self-Designed Dance
17:15-17:30	93	Senem Tanberk and Dilek Tükel. Kinect Controlled Chess Playing Robot
17:30-17:45	213	Georgi M. Dimirovski and Yunlong Liu. WAN Networked Control Systems Implemented by Computer Control: Sampled-Data Synthesis
16:30-18:00	Session 6D: PD 2 - Nuclear Energy in Europe, Nikola K. Popov, Marko Čepin and Anton Čausevski	
16:30-18:00	Session 6E: Tutorial - Internet of Things for Smart Buildings - Current and Future Trends, Muhammad Alam	
19:00-20:00	Session 7: Presentation of the IEEE Young Professionals and IEEE Professional Activities	
20:00-23:00	Session 8: Plenary Lecture - Goce Arsov _ IEEE Republic of Macedonia Section - 20 Years Devoted to the Benefit of the Profession	
Friday, July 7th		
08:30-10:00	Session 9A: Track 3_2 - Power Engineering and Energy	
08:30-08:45	203	Anzhelika Ivanova, José Luis Domínguez García, Aleksandra Krkoleva Mateska and Petar Krstevski. Possibilities for wind operators participating in markets for frequency support services
08:45-09:00	126	Matej Krpan and Igor Kuzle. Linearized Model of Variable Speed Wind Turbines for Studying Power System Frequency Changes
09:00-09:15	33	Moses Peter Musau, Abungu Nicodemus Odero and Wabuge Cyrus Wekesa. Implementation of Environmental Decision Making Tool For Renewable Energy Utilization: A Case of Wind and Solar
09:15-09:30	20	Erkan Dursun and Beyhan Kilic. Integration of Innovative Photovoltaic Technology to the Railway Trains: A Case Study for Istanbul Airport-M1 Light Metro Line
09:30-09:45	218	Vanja Varda and Igor Kuzle. The Influence of Renewable Energy Systems, Energy Storage and Electrical Vehicles on Croatian Power System Operation
09:45-10:00	107	Tara Petric, Charlotte Dupont and Franck Le Gall. Evaluating benefits of adding intelligence to small-scale

		renewable energy systems
08:30-10:00	Session 9B: STA 2_1 - The Future of Smart Technologies and Intelligent Infrastructures	
08:30-08:45	119	Valentin Rakovic, Daniel Denkovski, Vladimir Atanasovski, Liljana Gavrilovska, Harm Op den Akker and Cristian-Dan Bara. Cloud based solution for vital signs tracking
08:45-09:00	101	Afef Mdhaffar, Tarak Chaari, Kaouthar Larbi, Mohamed Jmaiel and Bernd Freisleben. IoT-based Health Monitoring via LoRaWAN
09:00-09:15	60	Michal Tarkowski, Mateusz Rzymowski, Łukasz Kulas and Krzysztof Nyka. Improved Jamming Resistance Using Electronically Steerable Parasitic Antenna Radiators
08:30-10:00	Session 9C: SPC 2017	
08:30-09:00	223	Mathieu Jadin and Gautier Tihon. Securing MultiPath TCP
09:00-09:30	224	Istvan Taczi. Enhancing Power System Frequency Stability with Synthetic Inertia
09:30-10:00	225	Lucija Brezočnik. Feature selection for classification using particle swarm optimization
08:30-10:00	Session 9D: STA 12_1 - Cloud Based Infrastructure and Platforms for Big Data	
08:30-08:45	183	Elena Karafiloski. Blockchain Solutions for Big Data Challenges: A Literature Review
08:45-09:00	166	Sonja Filiposka, Roman Łapacz, Michal Balcerkiewicz, Frank Wein and Jerry Sobieski. Transforming Silos to Next-Generation Services
09:00-09:15	184	Aleksandra Zdravevska, Ace Dimitrievski, Petre Lameski, Eftim Zdravevski and Vladimir Trajkovik. Cloud-based Recognition of Complex Activities for Ambient Assisted Living in Smart Homes with Non-Invasive Sensors
09:15-09:30	179	Petre Lameski, Eftim Zdravevski, Andrea Kulakov and Vladimir Trajkovik. Cloud-based Architecture for Automated Weed Control
08:30-10:00	Session 9E: Track 2_2 - Circuits, Systems and Signal Processing	
08:30-08:45	111	Miloš Brajović, Irena Orović, Miloš Daković and Srdjan Stanković. The Reconstruction of 2D Sparse Signals By Exploiting Transform Coefficients Variances
08:45-09:00	100	Ivan Milosavljević, Đorđe Glavonjić, Dušan Krčum, Darko Tasovac, Lazar Saranovac and Vladimir Milovanović. An FMCW Fractional-N PLL-based Synthesizer for Integrated 79GHz Automotive Radar Sensors
09:00-09:15	65	Jian Gao and Hamidou Tembine. Correlative Mean-Field Filter for Sequential and Spatial Data Processing
09:15-09:30	38	Elit Cenk Alp and Hacer Yalim Keles. Action Recognition Using MHI Based Hu Moments with HMMs
09:30-09:45	22	Patrick Schmitt, Markus Lechner and Roman Beneder. Development of a low-cost, open-source measurement equipment for undergraduate courses dedicated to embedded systems
09:45-10:00	199	Tomislav Kartalov and Zoran Ivanovski. High Quality Exposure Fusion For Mobile Platforms
10:00-10:30	Coffee Break	
10:30-12:00	Session 10A: STA 12_2 - Cloud Based Infrastructure and Platforms for Big Data	
10:30-10:45	164	Nasser Abwnawar, Helge Janicke and Richard Smith. Towards Location-Aware Access Control in Inter-Cloud Communications: an Extension to the SANTA Policy Language
10:45-11:00	162	Katja Gilly, Sonja Filiposka and Carlos Juiz. Towards an enhanced VM placement solution for power-aware cloud environments
11:00-11:15	24	Natasa Paunkoska, Ninoslav Marina and Aneta Velkoska. Efficient Distribution and Improved Security for Reliable Cloud Storage System
11:15-11:30	170	Sonja Filiposka, Anastas Mishev and Katja Gilly. Balancing High Performance and Energy Efficiency in Cloud Allocation Problems
11:30-11:45	188	Gorgi Kakasevski and Anastas Mishev. Optimization and Scheduling Algorithm for Data Intensive Workflows in Distributed Data Mining Architecture
10:30-12:15	Session 10B: Track 2_3 - Circuits, Systems and Signal Processing	
10:30-10:45	230	Aleksandar Melov, Branislav Gerazov and Zoran Ivanovski. Delay based optimisation of an integrated online call recording speaker diarisation and identification system
10:45-11:00	143	Srdjan Stankovic, Stefan Vujovic, Irena Orovic, Milos Dakovic and Ljubisa Stankovic. Combination of Gradient Based and Single Iteration Reconstruction Algorithms for Sparse Signals
11:00-11:15	96	Miloš Daković, Ljubisa Stankovic, Budimir Lutovac and Isidora Stanković. On the Fixed-point Rounding in the DFT

11:15-11:30	27	Salih Ergun. Lessons Learnt from the Cryptanalysis of a Chaos Based Random Number Generator
11:30-11:45	18	Luke Zammit and Carl James Debono. Improved Reconstruction of Downsampled MV-HEVC Depth Video
11:45-12:00	74	Emir Turajlić and Alen Begović. Noise Estimation Using Adaptive Gaussian Filtering And Variable Block Size Image Segmentation
12:00-12:15	15	Irena Orovic, Andjela Draganic, Nedjeljko Lekic and Srdjan Stankovic. A System for Compressive Sensing Signal Reconstruction
10:30-12:00	Session 10C: Track 3_3 - Power Engineering and Energy	
10:30-10:45	231	Snezana Cundeva and Aleksandar Dimovski. Vehicle-to-grid System Used to Regulate the Frequency of a Microgrid
10:45-11:00	153	Vladimir Katic, Aleksandar Stanisavljevic, Boris Dumnic and Bane Popadic. Comparison of voltage dips detection techniques in microgrids with high level of distributed generation
11:00-11:15	216	Maja Celeska, Krste Najdenkoski, Vladimir Dimchev and Vlatko Stoilkov. Analysis of Appearance, Variations and Correlations of Monthly Mean Wind Speed Data
11:15-11:30	104	Imane Biyya, Ghassane Aniba and Mohamed Maaroufi. Standardization of Distributed Energy Storage Systems Sizing In a Probabilistic Context
11:30-11:45	13	Abhik Ghosh. Demand Response for heating and cooling purposes in smart houses.
11:45-12:00	4	Abhik Ghosh. Comparison of power system simulation software PSS NETOMAC with open source calculation tool Matpower
10:30-12:00	Session 10D: STA 2_2 - The Future of Smart Technologies and Intelligent Infrastructures	
10:30-10:45	67	Marjan Gusev and Ana Guseva. State-Of-The-Art of Cloud Solutions Based on ECG Sensors
10:45-11:00	98	Azra Xheladini, Sertan Deniz Saygili and Ferhat Dikbiyik. An IoT-Based Smart Exam Application
11:00-11:15	92	Biljana Cvetkoska, Ninoslav Marina, Dijana Capeska Bogatinoska and Zhanko Mitreski. Smart Mirror E-health Assistant - Posture Analyze Algorithm Proposed Model for Uprigth Posture
10:30-12:00	Session 10E: SPC 2017	
10:30-11:00	228	Tim Thielemans. A Capacitive Gearbox DC/DC Converter enabling Skyscraper CMOS with Dynamic Voltage Scaling
11:00-11:30	226	Elly De Pelecijn. High Speed Time-multiplexed Continuous Time Sigma-Delta Converters
12:00-12:45	Session 11: Plenary Keynote Lecture 4 - Josep M. Guerrero - Does DC Distribution Make Sense?	
12:45-13:30	Session 12: Plenary Keynote Lecture 5 - Andrej Vckovski - Software Digital Waste Disposal	
13:30-14:30	Lunch Break	
14:30-16:00	Session 13A: Track 1_2 - Information, Communication and Technology	
14:30-14:45	103	Rafia Umair, Kamal Shahid and Rasmus L. Olsen. Information Reliability in Smart Grid Scenario over Imperfect Communication Networks using IEC-61850 MMS
14:45-15:00	81	Elizabeth M. Okumu and Mqhele E. Dlodlo. Optimal and Sub-Optimal Iterative Cross-Layer Energy Efficient Schemes for CR MIMO Systems
15:00-15:15	72	Ismail Hburi and Hamed Al-Raweshidy. Uplink Performance of Cellular Massive MIMO with Fractional Power Control: Asymptotic Analysis
15:15-15:30	66	Julian Hoxha, Endri Stoja, Elton Domnori and Gabriella Cincotti. Multicarrier Digital Fractional Fourier Transform for Coherent Optical Communications
15:30-15:45	56	Talgat Manglayev, Refik Kizilirmak, Yau Kho, Nurzhan Bazhayev and Ilya Lebedev. NOMA With Imperfect SIC Implementation
14:30-16:00	Session 13B: Track 3_4 - Power Engineering and Energy	
14:30-14:45	35	Ljupco Karadzinov and Goce Stefanov. Power Control in Series-Resonant Bridge Inverters
14:45-15:00	11	Danijel Pavković, Vinko Užarević, Pietro Kristović, Mario Hrgetić and Ante Komljenović. Single Phase AC Inverter Current PR Control with Auxiliary PI Controller for DC Current Suppression
15:00-15:15	10	Danijel Pavković, Marko Mance, Mihael Cipek and Mario Hrgetić. DC Bus Feed-forward/Feedback Control for EVs with Battery/Ultracapacitor Energy Storage System
14:30-16:00	Session 13C: SS 4_1 - Trends in Metrology and Innovative Measurement Techniques	
14:30-14:45	128	Nemanja Gazivoda, Platon Sovilj, Vladimir Vujičić and Zoran Mitrović. Proposal for Extension of the Standard Paradigm of Discrete Digital Measurement

14:45-15:00	215	Mare Srbinovska, Vladimir Dimcev and Cvetan Gavrovski. Energy Consumption Estimation of Wireless Sensor Networks in Greenhouse Crop Production
15:00-15:15	139	Marija Markovska and Dimitar Taskovski. Optimal wavelet based feature extraction and classification of power quality disturbances using random forest
15:15-15:30	114	Predrag Pejovic. Electrical Measurements Revisited --- Experiences from Modernizing the Course
14:30-16:00	Session 13D: Workshop - Small Data Networking, Petar Popovski and Liljana Gavrilovska	
14:30-15:10		Keynote Speaker: Alberto Leon Garcia. Integrating IoT into Multi-tier Cloud Computing
15:10-15:35		Bane Vasic. Stochastic Resonance in Iterative Decoders
15:35-16:00		Liljana Gavrilovska. The Final Frontier for M2M Communication: Virtualization Case Study
14:30-16:00	Session 13E: SS 5 - Applications, Demands and Requirements of Future Wireless Vehicular Communication	
14:30-14:45	186	Maryam Khalid Multani, Arif Ur Rahman and Muhammad Asfandeyar. Partially Online Dynamic Bandwidth Allocation Algorithm for Hybrid TDM/WDM EPON
14:45-15:00	175	Aqsa Aslam, Luis Almeida and Frederico Santos. Using RA-TDMA to Support Concurrent Collaborative Applications in VANETs
15:00-15:15	97	Saifullah Khan, Martin Fränzle and Muhammad Alam. A Hybrid MAC Scheme for Wireless Vehicular Communication
15:15-15:30	86	Margarida Urbano, Muhammad Alam, Joaquim Ferreira, Jose Fonseca and Paulo Simoes. Cooperative Driver Stress Sensing Integration with eCall System for Improved Road Safety
15:30-15:45	41	Moustafa Awad, Hassan Halawa, Markus Rentschler, Ramez Daoud and Hassanein Amer. Novel System architecture for Railway Wireless Communications
14:30-18:00	Session 13F: Poster Session	
14:30-18:00	214	Jordancho Angelov, Rubin Taleski, Jovica Vuletic, Mirko Todorovski, Petar Krstevski and Aleksandra Krkoleva Mateska. Application of Reduced PTDF Matrix in Iterative Modified DC Network Model for Cross-border Capacity Calculation with Consideration of Reactive Power Flow Constraints
14:30-18:00	209	Chuncan Deng, Cheng Yang, Fangyong Xiao, Dajie Suolang and Wenshan She. Accurate Recognition and Extraction of Massive Device Monitoring Signals Based on Dynamic Updating of Genetic Ant Colony Algorithm
14:30-18:00	168	Vladimir Valentić, Sanja Gržinić and Dean Dobrec. Testing the Electrical Insulation System of Power Transformer Based on Mesuring Factor of Dielectric Losses
14:30-18:00	149	Dimitar Trajkovski and Goga Cvetkovski. Performance Analysis of Different Rotor Topologies in Permanent Magnet Motor
14:30-18:00	132	Muh-Dey Wei, Renato Negra, Sheng-Fuh Chang and Chih-Sheng Chen. Wideband Complementary CMOS VCO with Capacitive-Source-Degeneration Technique
14:30-18:00	122	Oussama Tahan, Rim Hawchar, Fatmeh Matar and Milad Ghantous. iGym- A RaspberryPi-SmartPhone Hybrid System for better Entertaining Treadmill Users
14:30-18:00	102	Sergio Silva, Salviano Soares, Manuel Cabral, Filipe Neves and Pedro A. Amado Assuncao. A dynamic programming algorithm to select optimal high-priority voice segments using Arduino
14:30-18:00	87	Alexey Lagunov and Nadejda Podorojnyak. The research of the complex of alternative energy to power the satellite container
14:30-18:00	44	Hedio Tatizawa, Wilson Roberto Bacega, Felippe Bacega, Adrian Castro, Marcio Bottaro, Danilo Rosendo and Welson Bassi. Partial Discharges Field Tests in a 230kV Circuit Breaker
14:30-18:00	40	Veselin Ivanovic, Nevena Radovic Brnovic and Srdjan Jovanovski. Completely pipelined implementation of optimal time-frequency filter for highly nonstationary FM signals estimation
14:30-18:00	36	Aleksandra Djoric, Natasa Males-Ilic, Aleksandar Atanaskovic and Vera Markovic. Linearization of broadband Doherty amplifier by baseband signals that modulate second harmonic
14:30-18:00	43	Dmitry Panfilov, Ahmed Elgebaly and Michael Astashev. Implementation of Thyristors Controlled Reactors for Reactive Power Control with Zero Harmonics Content
14:30-18:00	208	Wenbing Wu, Yurong Jiang, Cuijia Hao, Yingjun Shen and Yue Shen. Fusion Analysis of Monitoring Information Points Tables Based on Semantic Web and Hadoop Technology
16:00-16:30	Coffee Break	

16:30-18:00		Session 14A: Track 1_3 - Information, Communication and Technology
16:30-16:45	193	Izabela Rejer, Paweł Górski and Paweł Górski. Independent Component Analysis in a Motor Imagery Brain Computer Interface
16:45-17:00	110	Arban Uka, Albana Roci and Oktay Koc. Improved Segmentation Algorithm and Further Optimization for Iris Recognition
17:00-17:15	105	Arban Uka, Xhoena Polisi, Albana Halili, Nihal Engin Vrana and Camille Dollinger. Analysis of Cell Behavior On Micropatterned Surfaces By Image Processing Algorithms
17:15-17:30	7	Brandon Birmingham, Reuben Farrugia and Mark Vella. Using Thumbnail Affinity for Fragmentation Point Detection of JPEG Files
17:30-17:45	217	Kirill Karpov, Irina Fedotova, Eduard Siemens, Dmitry Kachan and Veronika Kirova. Impact of Virtualization on Timing Precision under Stressful Network Conditions
16:30-18:00		Session 14B: SS 4_2 - Trends in Metrology and Innovative Measurement Techniques
16:30-16:45	197	Igor Dimovski, Samoil Samak, Vladimir Dukovski, Mirjana Trompeska and Martin Hristoski. Influence of each of the geometric errors on the total displacement error of the machine
16:45-17:00	116	Zivko Kokolanski, Milan Simić, Vladimir Dimcev, Dragan Denić, Dimitar Taskovski and Jelena Đorđević-Kozarov. Metrological Evaluation of Computer-based Electrical Power Quality Signal Generator
17:00-17:15	84	Marjan Urekar and Vladimir Vujičić. Optimal Resolution of a Flash ADC for the High Precision Electrical Energy Stochastic Digital Measurement Method
17:15-17:30	26	Bojan Vujicic, Ljubica Zupunski, Platon Sovilj and Aleksandar Radonjic. Reconstruction of an Analog Signal Measured Using Two-Bit Stochastic Digital Measurement Method
17:30-17:45	187	Miodrag Kušljević, Josif Tomić and Predrag Poljak. Group-Delay-Controlled Multiple-Resonator-Based Harmonic Analysis
16:30-18:15		Session 14C: SS 7 - e-Infrastructure for Scientific Excellence
16:30-16:45	232	Mihai Ciubancan, Teodor Ivanoaica and Alexandru Nicolin. Preliminary data challenges and solutions at Extreme Light Infrastructure - Nuclear Physics
16:45-17:00	207	Teodor Ivanoaica, Mihai Ciubancan, Mihai Barbulescu and Alexandru Nicolin. Exploring long-term tape-storage solutions
17:00-17:15	167	Ivelina Georgieva and Vladimir Ivanov. Air Quality Index Evaluations For Sofia City.
17:15-17:30	180	Bojana Koteska, Anastas Mishev and Ljupco Pejov. Computational Approach Towards Vibrational Spectroscopic Detection of Molecular Species Relevant to Atmospheric Chemistry and Climate Science: The Formic Acid Rotamers
17:30-17:45	196	Miljan Bigović, Žarko Zečević, Luka Filipović and Božo Krstajić. Verification of the three-dimensional structure of synthesized molecule by molecular dynamic simulations
17:45-18:00	194	Ratko Pilipovic and Vladimir Risojevic. Evaluation of Convnets for Large-scale Scene Classification from High-resolution Remote Sensing Images
18:00-18:15	195	Bojana Koteska, Anastas Mishev, Marija Glavas Dodov, Maja Simonoska Crcarevska, Jasmina Tonic Ribarska, Vesna Petrovska Jovanovska, Monika Stojanovska and Ljupco Pejov. Modeling the Solid-state Vibrational Spectroscopic Properties of Morphine-based Formulations With Hybrid Meta Density Functional Theory
16:30-18:00		Session 14D: PD 3 - Systems-of-Systems, Smart Things or Complex Systems?, Georgi Dimirovski and Yuanwei Jing
16:30-17:15	205	Keynote Speaker: Georgi Dimirovski. An Overview of Fascinating Ideas on Complexity, Complex Networks and Systems in Computational Cybernetics
16:30-18:00		Session 14E: Workshop - Small Data Networking and PD 1 - 5G and the IoT, Petar Popovski
16:30-16:55		Cedomir Stefanovic. Coded slotted ALOHA with reliability and latency guarantees
16:55-17:20		Federico Clazzer. How Combining Techniques Can Improve Asynchronous Random Access
17:20-18:00		Panel session: Connectivity for IoT: Challenges and Perspectives Moderator: Petar Popovski Panelists: Alberto Leon Garcia, Bane Vasic, Liljana Gavrilovska, Cedomir Stefanovic, Federico Clazzer
Saturday, July 8th		
08:30-10:00		Session 15A: Track 1_4 - Information, Communication and Technology
08:30-08:45	145	Pero Latkoski. QoS control in OTT video distribution system

08:45-09:00	198	Tomislav Shuminoski, Liljana Gavrilovska and Toni Janevski. QoS performances of heterogeneous networks with multiple Radio Access Technologies
09:00-09:15	189	Zoran Asenov and Vladimir Atanasovski. The Impact of RF Parameters on Perceived QoS in Cellular Mobile Networks
09:15-09:30	169	Tomislav Shuminoski, Toni Janevski, Aleksandar Risteski and Mitko Bogdanoski. Security and QoS framework for 5G and Next Generation Mobile Broadband Networks
09:30-09:45	229	Marko Porjazoski, Pero Latkoski and Borislav Popovski. Estimation of maximal number of simultaneous video streaming sessions in LTE-Advanced
08:30-10:00	Session 15B: Track 2_4 - Circuits, Systems and Signal Processing	
08:30-08:45	109	Hatem El-Kharashy, Mostafa Khamis, Amr Salah and Mohammed Korany. A Novel Assertions-Based Code Coverage Automatic CAD Tool
08:45-09:00	95	George Tanev and Adrijan Božinovski. A linear time algorithm for rolling binary trees
09:00-09:15	63	Ahmed S. Eissa, Moamen A. Ibrahem, Mahmoud A. Elmohr, Yasmin Zamzam, Ahmed Elyamany, Sameh El-Ashry, Mostafa Khamis and Ahmed Shalaby. A Reusable Verification Environment for NoC Platforms Using UVM
09:15-09:30	28	Mahmoud Ibrahim, Ahmed Mohieldin and Mohamed Aboudina. An Ultra-Low-Power MPPT Architecture for Photovoltaic Energy Harvesting Systems
09:30-09:45	202	Elena Hadzieva and Aleksandar Simevski. Theoretical Aspects of a Design Method for Programmable NMR Voters
09:45-10:00	23	Khaled Salah. Generic Model Order Reduction Technique Based On Particle Swarm Optimization (PSO) Algorithm
08:30-10:00	Session 15C: Track 3_5 - Power Engineering and Energy	
08:30-08:45	131	Vesna Arnautovski Toseva, Leonid Grcev and Khalil El Khamlichi Drissi. High Frequency Performance of a Ground Rod in a Two-layer Soil
08:45-09:00	85	Andrijana Kuhar, Leonid Grcev and Blagoja Markovski. Improved TL Inductivity Formula for Analysis of Grounding Conductors
09:00-09:15	71	Edita Bajramovic, Karl Waedt, Yuan Gao and Mithil Parekh. Shared Responsibility for Forensic Readiness-Related Security Controls: Prerequisite for Critical Infrastructure Maintenance and Supplier Relationships
09:15-09:30	37	Valery Vodovozov and Zoja Raud. Energy Management in a Centrifugal Pumping Plant
08:30-10:00	Session 15D: Track 4 - Industry and Consumer Applications	
08:30-08:45	127	Hao Luo, Shen Yin, Tianyi Gao and Okyay Kaynak. Adaptive Configuration Technique for Decentralized Plug-and-Play Process Monitoring System
08:45-09:00	53	Federica Lacirignola and Claudio Sansoè. Oxygen partial pressure management and control loop design of a Closed Circuit Rebreather
09:00-09:15	55	Jin-Hyoung Kim, Cheolung Cha, Kwonhong Lee and Hae-Jin Kwon. New Structure for High Q-Factor Printed Antenna in Wireless PowerTransmission
09:15-09:30	47	Gehad Alkady, Markus Rentschler, Ramez Daoud, Hassanein Amer, Hadeer Ahmed and Hassan Halawa. FPGA-Based Reliable Video Sensor in NCS
08:30-10:00	Session 15E: STA 9/11_1 - Smart Technologies in Electrical Machines and Drives	
08:30-08:45	80	Rares Stanciu and Ciprian Sorandaru. Low-cost visually servoed tracked vehicle
08:45-09:00	32	Johann Zitzelsberger and Lorant Vrinceanu. Electric Drives - Enabler for Intelligent Mechanics
09:00-09:15	210	Alessandro Galassini, Alessandro Costabeber and Chris Gerada. Speed Control for Multi-Three Phase Synchronous Electrical Motors in Fault Condition
10:00-11:30	Coffee Break	
10:30-12:00	Session 16A: Track 1_5 - Information, Communication and Technology	
10:30-10:45	204	Ivan Petrov and Toni Janevski. G-TCP novel transport protocol for usage in the next generation networks
10:45-11:00	117	Indrit Enesi, Elma Zanaj, Saimir Kokonozi and Blerina Zanaj. Performance Evaluation Of Statefull Load Balancing In Predicted Time Intervals And CPU Load
11:00-11:15	76	Vesna Kirandziska and Nevena Ackovska. The importance of hands-on experiences in Robotics courses
11:15-11:30	70	Wesam Al-Zubaedi and Hamed Al-Raweshidy. A Parameterized and Optimized BBU Pool Virtualization Power Model for C-RAN

11:30-11:45	182	Vangel Fushtikj, Magdalena Raskovska and Natalija Petrova. The impact of Information Technology to the Project management efectiveness in the companies in R. Macedonia
11:45-12:00	191	Biljana Risteska Stojkoska, Jordan Palikrushev, Kire Trivodaliev and Slobodan Kalajdziski. Indoor localization of Unmanned Aerial Vehicles
10:30-12:00		Session 16B: STA 1/6 - Disruptive Technology Directions for 5G and Ultra High Speed Wireless and Optical Technologies for 5G
10:30-10:45	142	Darko Cvetkovski, Tim Hälsig, Berthold Lankl and Eckhard Grass. Hardware-in-the-Loop Demonstration of a 60GHz Line-of-Sight 2x2 MIMO Link
10:45-11:00	135	Rolf Kraemer. Challenges and ideas to achieve wireless 100 Gb/s transmission
11:00-11:15	30	Uyoata Uyoata and Mqhele Dlodlo. Joint Power Allocation and Relay selection for Relay Assisted D2D Communication with Channel Uncertainties
11:15-11:30	29	Lukasz Lopacinski, Marcin Brzozowski, Rolf Kraemer, Karthik Krishnegowda, Steffen Buechner and Joerg Nolte. Towards 100 Gbps wireless communication: investigation of FEC interleavers for PSSS-15 spreading
11:30-11:45	69	Stojan Kitanov and Toni Janevski. Energy Efficiency of Fog Computing and Networking Services in 5G Networks
10:30-12:00		Session 16C: SS 1 - WAMPAC - Towards Future Power Transmission System
10:30-10:45	123	Urban Rudez and Rafael Mihalic. Trends in WAMS-based Under-Frequency Load Shedding Protection
10:45-11:00	124	Gorazd Berginc, Urban Rudež and Rafael Mihalič. WAMS upgrade in the Slovenian Power System - Current Status and Plans for the Future
11:00-11:15	125	Teodora Dimitrovska, Urban Rudez and Rafael Mihalic. Fast contingency Screening Based On Data Mining
11:15-11:30	133	Uros Kerin and Rainer Krebs. PMU and DSA Based Wide Area Control System - Concept and application in a large longitudinal system
11:30-11:45	136	Ilya Tyuryukanov, Jairo Quirós-Tortós, Matija Naglic, Marjan Popov, Mart A.M.M. van der Meijden and Vladimir Terzija. A post-processing methodology for robust spectral embedded clustering of power networks
11:45-12:00	138	Špela Vidrih, Janko Kosmač and Tomaž Tomšič. Dynamic Thermal Rating System in Slovenian Transmission Power System
10:30-12:00		Session 16D: STA 9/11_2 - Smart Technologies in Electrical Machines and Drives
10:30-10:45	200	Nicola Barbini and Alberto Tessarolo. 5Phase PM Brushless DC Motor Current Optimization - Part I
10:45-11:00	201	Nicola Barbini and Alberto Tessarolo. 5Phase PM Brushless DC Motor Current Optimization - Part II
11:00-11:15	172	Adnan Secic and Igor Kuzle. On the novel approach to the On Load Tap Changer (OLTC) diagnostics based on the observation of fractal properties of recorded vibration fingerprints
11:15-11:30	163	Filip Jukić, Damir Sumina, Luka Pravica and Igor Kuzle. Practical approach for parameters determination of interior permanent magnet generator
10:30-12:00		Session 16E: IEEE Young Professionals Workshop: Improvisional Skills
12:00-12:45		Session 17: Plenary Keynote Lecture 6 - Eckhard Grass - 5G Mobile Networks: Implications for Operators, Verticals and End Users
12:45-13:30		Session 18: Plenary Keynote Lecture 7 - Rafael Mihalic - What does European Energy Turnover (Energiewende) Mean for Small Countries
13:30-14:00		Closing Ceremony
14:00-18:00		Boat Trip and Lunch Break