

**2017 IEEE First Ukraine Conference on
Electrical and Computer Engineering
(UKRCON)**

CONFERENCE PROGRAM

**May 29 – June 2, 2017
Kyiv, Ukraine**

SCHEDULE OF CONFERENCE

Time	29.05.2017, Monday	30.05.2017, Tuesday	31.05.2017, Wednesday	01.06.2017, Thursday	02.06.2017, Friday
09:00	Conference Registration	Plenary Session		Plenary Session	Special Social Program
09:30	Registration				
10:00	Opening Ceremony		Ceremony Registration	Oral Sessions	
10:30	Plenary Session	Coffee breaks and Posters	IEEE Milestone Ceremony	Coffee breaks and Posters	
11:00					
11:30					
12:00	Coffee break	Oral Sessions		Oral Sessions	
12:30	Plenary Session	Lunch	Lunch	Lunch	
13:00	Lunch				
13:30					
14:00	Oral Sessions	Oral Sessions	Oral Sessions	Tutorial	
14:30					
15:00	Coffee breaks and Posters	Coffee breaks and Posters	Coffee breaks and Posters		
15:30	Oral Sessions	Oral Sessions	Oral Sessions	Museums Tours	
16:00					
16:30					
17:00	Free time	City Tour	Free time		
17:30	Welcome Party				
18:00					
18:30					
19:00			Section's 25th Anniversary Banquet		
19:30					
20:00					
20:30					
21:00					
21:30					
22:00					

29.05.2017

OPENING CEREMONY

Academic Building #1,
Hall of Scientific Council of Igor Sikorsky Kyiv Polytechnic Institute
(10:00 – 10:25)

Prof. Maksym Strikha,

Deputy Minister of Education and Science of Ukraine, V.Ye. Lashkaryov Institute of Semiconductor Physics of National Academy of Science of Ukraine, Kyiv, Ukraine

Prof. Michael Zgurovsky,

Rector of the Igor Sikorsky Kyiv Polytechnic Institute, Academician, IEEE Senior Member, Kyiv, Ukraine

Prof. Yuriy Yakymenko,

First Vice Rector of the Igor Sikorsky Kyiv Polytechnic Institute, Academician, IEEE Senior Member, Kyiv, Ukraine

Prof. Felix Yanovsky,

IEEE Ukraine Section Chair, Head of Electronics Department of the National Aviation University, IEEE Fellow, Kyiv, Ukraine

Prof. Vincenzo Piuri,

IEEE Vice President for Technical Activities (2015), Program Chair of the IEEE Sections Congress (2017), IEEE Fellow, University of Milan, Milan, Italy

Prof. Roberto Sorrentino,

EuMA Co-founder and President (1998 – 2009), IEEE Fellow, University of Perugia, Perugia, Italy

GROUP PHOTO

Hall of Scientific Council of Igor Sikorsky Kyiv Polytechnic Institute
(10:25 – 10:35)

PLENARY SESSION

Hall of Scientific Council of Igor Sikorsky Kyiv Polytechnic Institute
(10:35 – 12:00)

1	Valeriya Gritsenko	Neural Engineering to the Rescue: Using Engineering Approaches to Understand How the Brain Controls Movement
2	Vincenzo Piuri	Computational Intelligence for Industrial and Environmental Applications
3	Enrique Romero-Cadaval	Going Beyond of Connecting Converters: Cooperative Converters

COFFEE BREAK

Academic Building #1, «Alma Mater» (12:00 – 12:15)

PLENARY SESSION

Hall of Scientific Council of Igor Sikorsky Kyiv Polytechnic Institute
(12:15 – 13:45)

1	Andrew Tirkel	Radar Retina or a Millimeter Wave Eye?
2	Svitlana A.Vitusevich	Low-Noise High-Speed Si Nanowire Field-Effect Transistors: Recent Advances and Opportunities in Biosensor Applications
3	Nikolay Cherpak	Microwave Physics and Technologies: History and Results of Collaboration of Ukraine, Germany and China Teams Started in the 2000s

LUNCH

Academic Building #1, «Alma Mater» (13:45 – 14:30)

Track 1: Microwave Techniques, Antennas & Radar Systems

ORAL SESSION

Hall #11 of Library (14:30 – 15:30)

1	Gerard Rankin and Andrew Tirkel	Principal Modes on an Acupuncture-Like Needle with Low Loss
2	Tetyana Yatsenko and Kostyantyn Ilyenko	Scalar Potential Calculations for Relativistic Charged-Particle Beam in Unbounded Coaxial Drift Tube
3	Kostyantyn Ilyenko, Tetyana Yatsenko and Gennadiy Sotnikov	Space-Charge Limited Current of Relativistic Charged-Particle Beam in Coaxial Drift Tube of Finite Length
4	Sean Cashman, Olga Korostynska, Andy Shaw, Paulo Lisboa and Alex Mason	Detection of glyphosate in deionised water using machine learning techniques with microwave spectroscopy

POSTER SESSION

Library Floor (15:30 – 16:00)

1	Kostyantyn Ilyenko, Yurii Novosel and Tetyana Yatsenko	Permanent Magnet Focusing System Optimization for SubMM-Waveband Clinotrons
2	Margarita Romanyuk, Oleg Petrishev and Ganna Vlasyuk	Mathematical model of contact excitation of ultrasonic waves by a disk piezoelectric transducer
3	Alexey Krivonos and Alexandr Shvets	Variations of the Effective Height of the Lower Ionosphere by Results of Analysis of Tweek-Atmospherics. Preliminary Results.
4	Alexey Galuza, Alla Belyaeva and Ivan Kolenov	Influence of parallelepiped surface defects on terahertz and optical ellipsometry measurements
5	Dmitry Tatarchuk, Yuriy Didenko, Vitalii Molchanov, Anton Franchuk and Yuriy Poplavko.	Thin Dielectric Resonators in Microwaves
6	Yuliya Gorishnya	Plasma Density Evaluation in the Sharply-bounded Ionosphere Model by Tweeks
7	Alexey Galuza, Alla Belyaeva, Ivan Kolenov and Sergey Mizrakhy	Spectral quasi-optical terahertz ellipsometer

8	V. P. Riabukha, D. I. Lekhovitskiy, A. V. Semenyaka, E. A. Katyushin	An Exploratory Model of the Hardware-Software Unit for Adaptive Digital Time Signal Processing Against the Background of Masking Clutters
9	M. Balaban, A. Kovorotniy, V. Gorobets, F. Kivva, Yu. Goncharenko, G. Farquharson, A. Jessup	Study of the ATI SAR Target Signature for Non-Linear Airborne Tracks

ORAL SESSION

Hall #11 of Library (16:00 – 17:30)

1	Alex Mason, Olga Korostynska, Luis Eduardo Cordova-Lopez, Badr Abdullah, Julien Louis, Jacob Greene, Rob Connell and John Hopkins.	Non-Invasive Measurement of Blood Lactate in Humans using Microwave Sensors
2	Ilaria Frau, Olga Korostynska, Patrick Byrne and Alex Mason	Feasibility of in-situ quality assessment of zinc contamination in water
3	Davide Massaro and Riccardo Ardoino	Range Profiling of Vessels with Pseudo-Random Radar Waveforms
4	Serkan Yıldız, Ahmet Aksen and Siddik Binboga Yarman	Quad-Band Matching Network Design with Real Frequency Technique Employing Frequency Transformation
5	Tamar Nozadze, Veriko Jeladze and Mariam Tsverava.	EM Exposure Study on an Inhomogeneous Child Model Considering Hand Effect
6	Zoya Eremenko and El Ganapolskii	Experimental detection of wave chaos in quasioptical cavity resonator with random bulk inhomogeneities

Track 3: Energy Systems, Industry Application & Industry 4.0

ORAL SESSION

Hall #12 of Library (14:30 – 15:30)

1	Carlos Roncero, Oleksandr Husev, Serhii Stepenko, Enrique Romero-Cadaval and Dmitri Vinnikov	Interleaved Single-Phase Quasi-Z-Source Inverter with Special Modulation Technique
2	Oleksandr Matiushkin, Oleksandr Husev, Ryszard Strzelecki, Sergey Ivanets and Artem Fesenko	Novel Single-Stage Buck-Boost Inverter with Unfolding Circuit
3	Maksym Khomenko, Oleksandr Veligorskyi, Oleksandr Husev, Kostiantyn Tytelmaier and Roman Yershov	Model Predictive Control of Photovoltaic Bidirectional DC-DC converter with coupled inductors
4	Kostiantyn Tytelmaier, Oleksandr Husev, Oleksandr Veligorskyi, Maksym Khomenko and Oleh Khomenko	Controller Design for Interleaved Bidirectional DC-DC Converter with Coupled Inductors

POSTER SESSION

Library Floor (15:30 – 16:00)

1	Volodymyr Chemerys and Iren Borodiy	Effective Inductor Systems for Pulsed Accelerators and Actuators
2	Volodymyr Ivakhno, Volodymyr Zamaruiev, Bohdan Styslo, Roman Kosenko and Andrei Blinov	Bidirectional Isolated ZVS DC-DC Converter with Auxiliary Active Switch for High-Power Energy Storage Applications
3	Evgen Sokol, Volodymyr Zamaruiev, Serhiy Kryvosheev, Bohdan Styslo and Vadym Makarov	The Specificity of Electrical Energy Storage Unit Application
4	Mykhailo Artemenko, Serhii Polishchuk, Valerii Mykhalskyi and Ivan Shapoval	Apparent Power Decompositions of the Three-Phase Power Supply System to Develop Control Algorithms of Shunt Active Filter
5	Omelyan Plakhtyna and Oleksiy Kuznyetsov	Wound Rotor Induction Machine with an Excitation from Capacitor Energy Caused by Slip Power

6	Lezhniuk Petro, Komar Vyacheslav, Kravchuk Sergiy and Nanaka Olena.	Providing fixed level of electric energy supply quality in conditions of reno-vation of power distribution electrical networks with renewable energy sources
7	Serhii M. Lebedka, M.V. Petrovskiy and Yu.N. Veprik	Discrete models of the electric grid elements, obtained with using the second-order formula of implicit Gear method
8	Ihor Shchur and Volodymyr Klymko	Comparison of Different Types of Electromechanical Systems for Creating of Counter-Rotating VAWT
9	Vladyslav Mykhailenko, Sergey Buryan, Tetyana Maslova, Lyudmyla Naumchuk, Juliya Chunyak and Olga Charnjak	Mathematical Model of the Semiconductor Converter with Twelve-zone Regulation of Output Voltage

ORAL SESSION

Hall #12 of Library (16:00 – 17:30)

1	Andrei Blinov, Roman Kosenko and Andrii Chub	Evaluation of Low- and High-Voltage GaN Transistors in Soft Switching DC-DC Converter
2	Kaspars Kroics, Janis Zakis, Aleksander Suzdaleno, Oleksander Husev, Kostiantyn Tytelmaier and Kamal Khandakji	Operation Possibility of Grid Connected Quasi-Z-Source Inverter Integrating Energy Storage and Renewable Energy Generation in Wide Power Range
3	Mousa Lahdo, Tom Ströhla and Sergej Kovalev	Design and Analysis of a Linear Actuator for Contactless Positioning Systems
4	Sergei Peresada, Serhii Kovbasa, Dmytro Pushnitsyn and Yurii Zaichenko	Two Nonlinear Controllers for Voltage Source AC-DC Converter
5	Navid Amiri, Seyyedmilad Ebrahimi and Juri Jatskevich	Efficient Simulation of Wind Generation Systems Using Voltage-Behind-Reactance Model of Doubly-Fed Induction Generators and Average-Value Model of Switching Converters
6	Sergei Peresada, Serhii Kovbasa, Mykola Zhelinskyi and Artem Duchenko	Speed Sensorless Direct Field Oriented Control of Induction Generator

Track 4: Nanoelectronics & Photonics, Electron Devices & Embedded Systems

ORAL SESSION

Hall #10 of Library (14:30 – 15:30)

1	Shyam Badu and Roderick Melnik	NMR Properties of Fenna-Matthews-Olson Light Harvesting Complex: Photosynthesis and its Biomedical Applications
2	Denys Natarov	Lasing Thresholds of Plasmonic Modes of a Silver Tube Nanolaser with Active Shell and Core
3	Volodymyr Byelobrov	Lasing Thresholds of Plasmon and Grating Modes of Coated Silver Nanowire Gratings
4	Vitalii Shcherbinin and Anton Hlushchenko	Self-Consistent Effect of Ohmic Losses on Output Power of Gyrotron

POSTER SESSION

Library Floor (15:30 – 16:00)

1	Elena Velichko	Resonance Scattering and Absorption of Light by a Silver Circular Cylinder with Diameter Larger Than the Wavelength
2	Alexander Ye. Svezhentsev, Vladimir Volski, Sen Yan and Guy A. E. Vandenbosch	Shaped Nanoantennas on Cylindrical and Planar Substrate
3	Vira Tkachenko and Aleksandr Lipinskii	Mathematical Model of Volume Optical Interconnection Reconfiguration Utilizing Acousto-Optic Beam Forming
4	Yuriy Poplavko and Alexandr Borisov	Impact of Magnetic and Electrical Ordering on Resistivity: New Incite

ORAL SESSION

Hall #10 of Library (16:00 – 17:30)

1	Vadym Avrutov, Petro Aksonenko, Nadiya Bouraou, Patrick Henaff and Laurent Ciarletta	Expanded Calibration of the MEMS Inertial Sensors
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2	Arkadiy Prodeus	Late Reverberation Reduction and Blind Reverberation Time Measurement for Automatic Speech Recognition
3	Arkadiy Prodeus	Estimation of Speech Quality and Intelligibility for Some Models of Additive Noise
4	Vladimir Yachin and Tatiana Zinenko	Polarization Conversion by Metamaterial Composed of a Periodic Array of Metallic Square Helixes Embedded in a Dielectric Layer
5	Serhii Tsybulnyk and Diana Pivtorak	Method of Determining the Strain Value From the Output Signal of the Fiber Optical Sensor
6	Vitalii Artuhov and Oleksii Brytov	Analysis of Sigma-Delta Modulator with Distributed Feedback

Track 5: Systems Analysis, Computer Science & Infocommunications

ORAL SESSION

Hall #1 of Library (14:30 – 15:30)

1	Alexandra Oborina <i>(Invited Talk)</i>	Internet of Things: challenges and research opportunities across the industries
2	Vladimir Ulansky and Irina Terentyeva	Availability Assessment of a Telecommunications System with Permanent and Intermittent Faults
3	Vadim Ditlovich and Yuval Bistriz	Speaker Verification with Mostly Voiced Speech for GMM/UBM and GMM/IBM Systems

POSTER SESSION

Library Floor (15:30 – 16:00)

1	Michael Zgurovsky, Andrii Boldak, Kostiantyn Yefremov and Ivan Pyshnograiev	Modeling and investigating the behavior of complex socio-economic systems
2	Victoria Bobichev, Olga Kanishcheva and Olga Cherednichenko	Sentiment Analysis in the Ukrainian and Russian News
3	Tetiana Kolpakova, Andrii Oliinyk and Valerii Lovkin	Improved method of group decision making in expert systems based on competitive agents selection
4	Anatoly Gaida, Tigran Grigorian, Elena Zarichuk and Konstantin Koshkin	The Decision Making Mechanisms in Sea Container Traffic Management
5	Yana Kremenetskaya, Elena Zhukova, Svetlana Morozova	Approaches to the evaluation of spectral and energy efficiency Millimeter Wave Cellular Networks
6	Zhengbing Hu, Vitaly Deibuk and Ivan Yuriychuk	Ternary Reversible/Quantum Latches

ORAL SESSION

Hall #1 of Library (16:00 – 17:30)

1	Nataliya Pankratova	The Integrated System of Safety and Survivability Complex Technical Objects Operation in Conditions of Uncertainty and Multifactor Risks Institute for Applied System Analysis
2	Murat Pasa Uysal and Murat Karakaya	Ontology-Supported Enterprise Architecture Analysis
3	Peter Bidyuk, Tetyana Prosyankina-Zharova and Oleksandr Terentiev	Forecasting and risk estimation under uncertainty using DSS
4	Vitalii Mokin, Oleksii Kozachko, Victoria Rodinkova, Olena Palamarchuk and Tetyana Vuzh	The decision support system for the classification of allergenic pollen types based on fuzzy expert data of pollen features on the microscope images
5	Vitalii Mokin, Liubov Skoryna, Andrii Yascholt and Yevhenii Kryzhanivskiy.	Method for Selecting the Ranking Criteria for Monitoring Stations of the Status of Spatially Distributed Systems and for Defining the Priority of their Location
6	Vitalii Mokin, Ilona Varchuk, Kostiantyn Bondaletov and Olena Slobodianiuk	Method for Analyzing and Optimizing the Topologic Observability of Cognitive Maps of Complex Spatially Distributed Systems

Track 6: Engineering Education & History

ORAL SESSION

Hall #2 of Library (14:30 – 15:30)

1	Osama Saadeh and Moh'd Rashad Al-Mothafar	Power Electronics Laboratory Education: the JUST Experience
2	Mykhaylo Zagirnyak, Serhii Serhiienko and Oleksii Chorny	Innovative Technologies in Laboratory Workshop for Students of Technical Specialties
3	Yuriy Poplavko and Yuriy Yakimenko	Electronic Materials Science: Teaching in Technical University
4	Anna Rudiakova and Felix Yanovsky	Hands-on Workshops Method in Embedded Electronic Systems' Classes

ORAL SESSION

Hall #2 of Library (16:00 – 17:30)

1	Yevhen Berkunskyi, Tetyana Farionova, Kateryna Knyrik and Tetiana Smykodub	Using Microservices in Educational Applications of IT-Company
2	Andrey Gnatov, Schasyana Argun and Olga Ulyanets	Joint Innovative Double Degree Master Program «Energy-Saving Technologies in Transport»
3	Sergey Mizrakhy	History and Perspectives of THz Components and Circuits Using Oversize Dielectric-Lined Waveguides
4	Volodymyr Sherstiuk and Marina Zharikova	Academic Integrity Support System for Educational Institution
5	Tatiana Zinenko	Yevgeny M. Kuleshov, Human Delta-Function in Ukrainian Microwave Science and Technology
6	Maxim Bolotov, Gennady Bolotov and Iryna Nahorna	Hollow Cathode Glow Discharge as a Heating Source in Welding and Brazing

WELCOME PARTY

Academic Building #6 (18:00 – 21:00)

30.05.2017

PLENARY SESSION

Hall #12 of Library, Igor Sikorsky Kyiv Polytechnic Institute
(09:00 – 11:00)

1	Luca Faes	Information Theory for the Analysis of Physiological Signals: Methods and Applications
2	Vladimir Lukin , Oleksiy Rubel, Sergey Abramov and Aleksander Zemliachenko	Performance Prediction in Radar Image Filtering and Lossy Compression
3	Juri Jatskevich	Advancements and Challenges in Transient Simulation of Energy Grids and Power Electronic Systems
4	Sergei Gorlatch	Future Distributed Applications Based on Mobile Cloud Computing and Software-Defined Networks

Track 1: Microwave Techniques, Antennas & Radar Systems

POSTER SESSION

Library Floor (11:00 – 11:30)

1	Lutz Angermann, Vasyl V. Yatsyk, Mykola V. Yatsyk	Generation Properties of Nonlinear Layered Objects and Eigen-Modes of the Linearized Problems
2	Vitalii Atamanyuk, Andrii Zvonko, Yuriy Kosovtsov and Yuriy Shabatura	Nonuniform Absorbing Coating as an Effective Way to Reduce Radar Visibility of an Object with the Surface Formed by Flat Conductive Plates
3	Maksym Popov, Igor Zavislyak and Gopalan Srinivasan	Passive ferrite resonator-based millimeter wave band components
4	Vladimir Sugak, Maxim Lohvinov and Alexandr Hlasunov	Usage of Radar Signal Phase Structure Entropy for Detection of Weakly Moving Ground Objects behind Foliage of Shrubs and Trees
5	Vladislav Meleshko, Sergiy Lakoza and Sergiy Sharov	Method of identifying and eliminating magnetic compass deviation

ORAL SESSION

Hall #11 of Library (11:30 – 13:00)

1	Serhii Siden	Parameters of the patch antenna outside operating frequency range
2	Zoya Eremenko, Kateryna Kuznetsova, Alexander Shubnyi, Volodymyr Glamazdin and Mykhailo Natarov	Dielectrometry of Pharmaceutical Ingredient Solutions at Microwaves
3	I. Ivanchenko, M. Khruslov, N. Popenko, V. Plakhtii and S. Mykhaliuk	X-band resonator for studying the various axially symmetric inhomogeneities in the frequency band
4	Mykhaylo Andriychuk	Modeling the Non-homogeneous Media with Specific Refraction Coefficient
5	Vitalyy Koshevyy and Victoria Popova	Complementary coded waveforms sets in Marine Radar Application
6	Nadiia Babanska, Yurii Efremov and Vitalii Vovk	Radio Waves Interference above a Spherical Sea Surface

LUNCH

Academic Building #1, «Alma Mater» (13:00 – 14:00)

ORAL SESSION

Hall #11 of Library (14:00 – 15:30)

1	Mikhail Andreev, Oleg Drobakhin and Dmitry Saltykov	Complex reflection coefficient determination via digital spectral analysis of multiprobe reflectometer output signals
2	Mikhail Andreev, Valentyn Borulko, Oleg Drobakhin and Dmytro Sidorov	Multiple Reflections from Non-periodic Bragg Layered Structures
3	George Koshovy	Diffraction of H-polarized electromagnetic wave by pre-fractal system of splits in PEC screen
4	Oleksandr Dumin, Rolan Akhmedov, Viktor Katrich, Olga Dumina	Transient Radiation of Circle with Uniform Current Distribution

5	V.A. Plakhtii, O.M. Dumin and O.A. Prishchenko	Transient Radiation of System of Four Noncollinear Dipoles
6	Yuliya Averyanova, Anna Rudiakova and Felix Yanovsky	Simulation of Liquid Hydrometeors' Scattering Power Distribution in Multi-Polarization Radar

POSTER SESSION

Library Floor (15:30 – 16:00)

1	Oleg Rybin and Sergey Shulga	RLC-Circuit Effective Medium Approach for Two-Component Non-Magnetic Metamaterials
2	Yurii Penkin, Victor Katrich, Mikhail Nesterenko, Sergey Berdnik and Natalya Blinova	Radiation Field of a Dipole Placed at Impedance Sphere
3	Igor V. Zavislyak and Hryhorii L. Chumak	Effect of modes frequencies splitting in ferrite resonators
4	Oleg Sukharevsky, Vitaly Vasilets, Sergey Nechitaylo and Ivan Ryapolov	The Radiation Characteristics of Antenna Systems with a Cone-Sphere Radome
5	Igor Tovkach and Serhii Zhuk	Adaptive filtration of parameters of the UAV movement on data from its location calculated on the basis the time difference of arrival method
6	Roman Dolia, Sergey Nosatiuk, Yevhen Shulha, Aleksandr Kogut, Igor Kuzmichev and He Zhaochang.	The Excitation of Whispering Gallery Modes in the High-Q Shielded Dielectric Disk
7	Oleg Kosiak, Volodymyr Bezborodov and Pavlo Nesterov	Wideband quasi-optical polarization phase shifter operating in the THz frequency range
8	Volodymyr Zamaruiev	The use of Kotelnikov-Nyquist-Shannon Sampling Theorem for designing of Digital Control System for a Power Converter
9	Mykola Zablodskiy, Andriy Zhiltsov, Igor Kondratenko and Volodymyr Grytsyuk	Conception of efficiency of heat electromechanical complex as hybrid system
10	Natalia Nazarova and Dmitriy Vinnichenko	Electrotechnical System of the Current Protection in the High-Voltage Pulse-Current Generators
11	Vladimir Sivetsky, Oleksiy Khalimovskyy, Olexandr Sokolsky and Ihor Ivitsky.	Automation of Intelligent Sensor Injection Inlet In Polymer Moldings By Using Vector Controlled Electric Drive

ORAL SESSION

Hall #11 of Library (16:00 – 17:00)

1	Ievgen Gorovyi and Dmytro Sharapov	Pattern Detection and Recognition in SAR images
2	Valeriy Volosyuk and Simeon Zhyla	Optimal Radar Cross Section Estimation in Synthetic Aperture Radar
3	Nadezhda Yeliseyeva, Victor Katrich, Mikhail Nesterenko and Aleksey Gorobets	Synthesis of Circularly Polarized Radiation by Inphase Crossed Impedance Wire Dipoles with Screen
4	Mstislav Kaliberda, Sergey Pogarsky and Leonid Lytvynenko	Diffraction by Two Semi-Infinite Gratings Placed in the Same Plane
5	Alexander Maslovskiy, Maxim Legenkiy, Nikolay Kolchigin and Mariya Antyufeyeva	Decomposition method for complex target RCS measuring

Track 2: Bioengineering & Robotics**ORAL SESSION**

Hall #9 of Library (14:00 – 15:30)

1	Patrick Henaff <i>(Invited Talk)</i>	From the control of biological complex systems toward the control of robotic complex systems
2	Andrii Shachykov, Patrick Henaff, Alexander Shulyak and Anton Popov	Neuro-musculoskeletal simulator of human rhythmic movements
3	Cécilia Lindig-Leon, Sébastien Rimbart, Oleksii Avilov and Laurent Bougrain	Scalp EEG activity during simple and combined motor imageries to control a robotic arm
4	Mykhailo Fryz	Conditional Linear Random Process and Random Coefficient Autoregressive Model for EEG Analysis
5	Ramazan Coban	Adaptive Backstepping Control Design for Electromechanical Systems

POSTER SESSION

Library Floor (15:30 – 16:00)

1	Anna Poreva, Anastasiia Makarenkova and Mykola Slozko	Efficiency evaluation of electroacoustic sensors for auscultation devices of human body life-activity sounds
2	Sergey Krivenko, Anatolii Pulavskiy and Stanislaw Krivenko	Determination of low hemoglobin level in human using the analysis of symbolic dynamics of the heart rate variability
3	Sergey Naida and Olha Pavlenko	The Ratio of Standard Ear Tympanogram and the Area of the Eardrum
4	Illia Fedorin, Vladimir Tuz, Sergii Gryshchenko, Jong Min Choi and So Hyun Chung	Development of a Simulation Tool for Optimal Design of a Mobile Photoplethysmography Sensor

ORAL SESSION

Hall #9 of Library (16:00 – 17:00)

1	Dmytro Shtoda, Yurii Arkusha and Mykola Mustetsov	The microwave imaging method for express diagnostic of cancer
2	Oleg Chertov and Volodymyr Malchykov	Determining Optimal Dilation Factor of Non-Dyadic Wavelet Transform
3	Serhiy Batachenko and Roman Tomashevskiy	The Technical Inspection of Device for Integrated Evaluation of the Antioxidant Activity of Foods
4	Illia Kukhareenko and Volodimir Romanenko	Picking a Human Fall Detection Algorithm for Wrist-Worn Electronic Device

Track 3: Energy Systems, Industry Application & Industry 4.0

POSTER SESSION

Library Floor (11:00 – 11:30)

1	Ievgen Verbytskyi, Anna Kyselova and Gennadiy Kyselov	Power Grid Converter Control Improvement Based On Contextual Data
2	Nataliia Suprunovska and Anatolii Shcherba	Parametric Synthesis of Reservoir Capacitor Circuits in the Thyristor Generator of Discharge Pulses with the Controllable Voltage Feedback
3	Mykhaylo Zagirnyak, Roman Manko, Viktoriya Kovalchuk and Tetyana Korenkova.	Assessment of Pipeline Network Leakage Influence on Dynamic Characteristics of the Pump Complex
4	Ievgen Verbytskyi	A Double Fourier Series Implementation for Modulated Signal with the Arbitrary Modulation
5	Oleksandr Mokin, Borys Mokin and Oleksandr Kryvonis	Synthesis of Mathematical Models for One Class of Electromechanical Systems With Variable Parameters
6	Serhii Korol, Sergey Buryan, Mykola Pushkar and Mykhola Ostroverkhov	Investigation the Maximal Values of Flux and Stator Current of Autonomous Induction Generator
7	Mykola Pushkar, Nataliya Krasnoshapka, Mykola Pechenik and Vitalii Bovkunovych	Method of Approximation the Magnetizing Inductance Curves of Self-Excited Induction Generators
8	Anton Kylymchuk, Petro Lezhnyuk and Alexandr Rubanenko	Impact of Linear Regulator, Installed in the Electric Grid of Energy Supply Company, on Power Losses
9	György Morva, Vitalii Volokhin, Illia Diahovchenko and Zsolt Čonka	Analysis of the impact of nonlinear distortion in voltage and current curves on the errors of electric energy metering devices

ORAL SESSION

Hall #12 of Library (11:30 – 13:00)

1	Maksym Shcherba	Modeling of Water Tree Growth Between Micro-Inclusions in XLPE Cable Isolation and its Effect on Electric Field Distribution
2	Maksym Shcherba	Three-Dimensional Modeling of Electromagnetic and Temperature Fields in the Inductor of Channel-Type Furnace for Copper Heating

3	Pavlov Gennadiy, Irina Vinnichenko and Pokrovskiy Mikhail	Research of the Interrelationship between the Frequency Converter on the Basis of the Resonant Inverter with Nonlinear Control Power Unit Parameters and its Load
4	Alexander Kuznietsov and Tilman Happek	On-board diagnostics of Li-Ion battery packs for electric vehicles using a combination of spectroscopy and identification methods
5	Volodymyr Rozov and Volodymyr Grinchenko	Simulation and Analysis of Power Frequency Electromagnetic Field in Buildings Closed to Overhead Lines
6	Vladislav Kuchanskyy	The prevention measure of resonance overvoltages in extra high voltage transmission lines

LUNCH

Academic Building #1, «Alma Mater» (13:00 – 14:00)

ORAL SESSION

Hall #12 of Library (14:00 – 15:30)

1	Dmytro Danylchenko and Sergey Shevchenko.	Development of the method for determining the number of direct lightning strikes in overhead lines with protected wires.
2	Olga Tolochko and Mykola Sopiha	Heat Loss Minimization Field Control of Motionless Induction Motors in Pause of Intermittent Duty
3	Boiko Juliy, Igor Kovtun and Svetlana Petrashchuk	Vibration transmission in electronic packages having structurally complex design
4	Andrey Gnatov, Schasyana Argun and Natalia Rudenko	Smart Road as a Complex System of Electric Power Generation
5	Oleg Shutenko	Determine the boundary value of the concentration of gases dissolved in oil of method minimum risk.

POSTER SESSION

Library Floor (15:30 – 16:00)

1	Ihor Shchur, Yurii Biletskyi and Vsevolod Shchur	Energy Efficient and Simple Control of Stand-Alone Combine Heat-Power Generation Small Wind Turbine
2	Ihor Shchur, Yurii Biletskyi and Ihor Holovach	Improving of IDA-PBC Systems by Forming Additional Regulatory Actions on Directly Uncontrollable System Loops
3	Iurii Zubiuk	The application of power-law distribution for capacitor banks selection in the electrical supply systems and networks
4	Vasyl Kostiuk	Economic and mathematic modeling to optimize competitive renewable technologies expansion plan
5	Evgen I. Bardyk and Nickolai P. Bolotnyi	Electric Power System Simulation for Risk Assessment of Power Transformer Failure at an External Short-Circuit Fault
6	Mykhaylo Zagirnyak, Andrii Kalinov and Viacheslav Melnykov	Variable-Frequency Electric Drive with a Function of Compensation for Induction Motor Asymmetry
7	Bogdan Pryymak and Manuel Moreno-Eguilaz	Characteristics of Induction Motor Drives with Torque Maximization in Field Weakening Region
8	Volodymyr Kochan, Anatoliy Sachenko, Orest Kochan and Vasyl Yatskiv	Energy-Efficient Method for Controlling the Transmitters Power of Wireless Sensor Network
9	Ievgen O. Zaitsev, Anatolii S. Levytskyi and Bogdan A. Kromplyas	Characteristic of capacitive sensor for the air gap control system in the hydrogenator
10	Pavlo Herasymenko, Viacheslav Hutsaliuk, Volodymyr Pavlovskyi and Oleg Yurchenko	A Software Phase-Locked Loop of Control System of a Series-Resonant Voltage-Source Inverter for Induction Heating Equipment

ORAL SESSION

Hall #12 of Library (16:00 – 17:00)

1	Vadim Lobodzinskiy and Yurii Tsyban	The Investigation of Wave Process During Propagation of Plate Voltage Pulse on Three-Phase Performance Cable Line
2	Roman Zaitsev, Michail Kirichenko, Gennadiy Khrypunov, Dmitriy Prokopenko and Lilia Zaitseva	Development of hybrid solar generating module for high-efficiency solar energy station

Track 4: Nanoelectronics & Photonics, Electron Devices & Embedded Systems

POSTER SESSION

Library Floor (11:00 – 11:30)

1	Oleg Gurin, Andrey Degtyarev, Maxim Legenkiy, Vyacheslav Maslov, Valeriy Ryabykh, Vladislav Senyuta and Aleksandr Topkov	Mode Selective Properties of the Multi-ring Diaphragms in a Dielectric Waveguide
2	Alexandr Slobodyan, Andrey Vasin, Dariya Savchenko, Vyacheslav Gorshkov, Stanislav Tiagulskiy, Yuri Stubrov, Petro Lytvyn and Olexsiy Nazarov	Effect of Electron Beam Irradiation on Structural and Electrical Properties of Graphene-SiO ₂ -Si Structures
3	Andriy Semenov and Olexsandr Osadchuk	Modeling the Deterministic Chaos Microelectronic Oscillator Based on the Bipolar Transistor Structure with Negative Resistance
4	V.D. Yeryomka and V.P. Dzyuba	X-band Pulse Coaxial Magnetron with Field and Secondary Emitters
5	Vasyl Varyshchuk and Yaroslav Bobitski	Algorithm for automated diagnosis of object technical state with multimode fiber sensor
6	Volodymyr Marasanov and Artem Sharko	Discrete Models Characteristics of the Forerunners of Origin of the Acoustic Emission Signal
7	Halyna Klym	Study of phase composition in the technologically modified MgO-Al ₂ O ₃ nanoceramics using XRD and XPS mehods
8	Halyna Klym, Roman Dunets, Andriy Ivanusa, Yuriy Kostiv and Ivanna Vasylychshyn	Modified humidity-sensitive ceramics for microelectronics studied by PALS system

ORAL SESSION

Hall #10 of Library (11:30 – 13:00)

1	Lyubomyr Korolevych, Olexander Borysov and Hanna Shevlyakova	Relationship Between Electron Work Function And Crystal Lattice Constant
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2	Petro Yu. Artemchuk and Oleksandr V. Prokopenko.	Microwave Signal Frequency Determination Using Multiple Spin-Torque Microwave Detectors
3	Roman Melnyk, Yurii Nikolaenko, Yevheniy Alekseik and Vladimir Kravets	Heat Transfer Limitations of Heat Pipes for a Cooling Systems of Electronic Components
4	Alexander Sokolovsky, Sergiy Lyagushyn, Sergey Sokolovsky and Volodymyr Yarlik	Basic Ideas of Quantum Mechanics of Open Systems in Application to Electron and Optic Processes
5	Olga Shcherbyna, Yuriy Bacherikov, Olga Okhrimenko, Anton Zhuk, Roman Kurichka, Andriy Gilchuk and Olexander Musharovsky	Elemental composition and luminescent characteristics of ZnS:Cu powders, obtained by self-propagating high-temperature synthesis using NaCl as a flux
6	Michail Kirichenko, Roman Zaitsev, Andrey Dobrozhan, Gennadiy Khrypunov and Mykola Kharchenko	Properties of CdTe Films Prepared By DC Magnetron Sputtering

LUNCH

Academic Building #1, «Alma Mater» (13:00 – 14:00)

POSTER SESSION

Library Floor (15:30 – 16:00)

1	Iryna Yaremchuk, Halyna Petrovska, Volodymyr Fitio, Yaroslav Bobitski, Eugeniusz Sheregii and Renata Wojnarowska	Sensors element on base of relief Au-coated GaAs grating
2	Volodymyr Fitio, Iryna Yaremchuk, Andrii Bendzyak and Yaroslav Bobitski	Application RCWA for studying plasmon resonance under diffraction by metal gratings
3	Oleksander Osadchuk, Andriy Semenov, Oleksander Zviahin and Anton Savytskyi	Numerical Method for Processing Frequency Measuring Signals from Microelectronic Sensors Based on Transistor Structures with Negative Resistance
4	Gusieva and Oksana Gorobets	Nonlinear spin wave excitation at the interface between two ferromagnets with broken spatial inversion symmetry

5	Vasyl Tereshchenko, Tania Kolianova and Yaroslav Tereshchenko	An approach for triangulating an area bounded simple polygons
6	Iryna Yaremchuk, Halyna Petrovska, Yaroslav Bobitski, Eugenius Sheregii and Renata Wojnarowska-Nowak	Gold-Coated Polycarbonate Grating-based Substrates for Raman Spectroscopy
7	Andriy Stelmashchuk, Ivan Karbovnyk, Dmytro Chalyy, Dmytro Lukashevych and Halyna Klym	Parametric modeling of conductivity in percolating nanotube network

Track 5: Systems Analysis, Computer Science & Infocommunications

POSTER SESSION

Library Floor (11:00 – 11:30)

1	Yurii Rashkevych, Dmytro Peleshko, Olena Vynokurova, Ivan Izonin and Natalia Lotoshynska	Single-Frame Image Super-Resolution based on Singular Square Matrix Operator
2	Roman Odarchenko, Anastasiia Abakumova, Yurii Kochergin and Dmitry Vergeles	Transport Network Optimization Methods of Mobile Operators in Ukraine
3	Taras Panchenko and Ievgen Ivanov	A Formal Proof of Properties of a Presentation System using Isabelle
4	Roman Bak, Orest Lavriv and Bohdan Koval	Load Balancing Based on Multi-Hop Handover for Wireless Cellular Networks
5	Olena Semenova and Andriy Semenov	The Neuro-Fuzzy Controller for Handover Operation in Mobile Networks
6	Leonid Lyubchyk and Galina Grinberg	Pairwise Kernel-Based Preference Learning for Multiple Criteria Decision Making
7	Artem Izmailov and Lubomyr Petryshyn	Symmetric ternary functions and their application in orthogonal transforms
8	Olesia Voitovych, Olga Shulyatitska, Leonid Kupershtein and Viktor Malushytskyy	The authentication method in wireless sensor network based on trust model
9	Mykhailo Petryshyn	Modeling of TIF processes in additive positional numeral systems based on the vector-branching diagrams

ORAL SESSION

Hall #1 of Library (11:30 – 13:00)

1	Mykola Lavreniuk, Nataliia Kussul, Mykola Meretsky, Vladimir Lukin, Sergey Abramov and Oleksii Rubel	Impact of SAR data filtering on crop classification accuracy
2	Zhengbing Hu, Yevgeniy Bodyanskiy and Oleksii Tyshchenko.	A Deep Cascade Neural Network Based on Extended Neo-Fuzzy Neurons and its Adaptive Learning Algorithm
3	Alexander Makarenko	Toward Development of Neural Networks With Strong Anticipation
4	Oleksandra S. Yeremenko, Oleksandr V. Lemeshko and Nadia Tariqi	Fast ReRoute Scalable Solution with Protection Schemes of Network Elements
5	Oleksandra S. Yeremenko, Oleksandr V. Lemeshko, Olena S. Nevzorova and Ahmad M. Hailan	Method of Hierarchical QoS Routing Based on the Network Resource Reservation
6	Mykhailo Klymash, Vasyl Romanchuk and Mykola Beshley	Investigation and Simulation of System for Data Flow Processing in Multiservice Nodes Using Virtualization Mechanisms

LUNCH

Academic Building #1, «Alma Mater» (13:00 – 14:00)

ORAL SESSION

Hall #1 of Library (14:00 – 15:30)

1	Viktor Hozhyi and Bart Lamiroy	Clustering of Users in Social Networks by Their Activity
2	Maksym Fedorchuk and Bart Lamiroy	Statistic Metrics for Evaluation of Binary Classifiers Without Ground-Truth
3	Nadezhda Nedashkovskaya and Nataliya Pankratova	A decision support system for evaluation of decision alternatives on basis of a network criteria model
4	Nataliia Kussul, Andrii Kolotii, Tatiana Adamenko, Bohdan Yailymov, Andrii Shelestov and Mykola Lavreniuk	Ukrainian Cropland through decades: 1990-2016

5	A. Varfolomieiev and Olexsandr Lysenko	A simple way to broaden object's search area for tracking methods based on discriminative correlation filters
6	Roman Shaptala, Anna Kyselova and Gennadiy Kyselov	Exploring the vector space model for online courses

POSTER SESSION

Library Floor (15:30 – 16:00)

1	Yuriy Milyavsky and Victor Romanenko	Systematization of Methods of Automated Control in Cognitive Maps' Impulse Processes for Complex Systems
2	Oleksandr Manko and Vyacheslav Vakas	Demultiplexing of optical channels based on the effect of light scattering
3	Vyacheslav Vakas, Oleksandr Manko, Dmytro Domin and Oleksii Kulinskyi	Evolution of stability of synchronization parameters in packet networks
4	Vitaly Pochernyaev and Victoria Povhleb	Analysis of the frequency parameters of the new combined microwave radio system
5	Roman Galagan and Andriy Momot	The use of ART-2 neural network for processing information signals of non-destructive testing
6	Amal Mersni, Andriy Ilyashenko and Tetiana Vavenko	Model of Multicast Routing With Support of Shared Explicit Reservation of Link Resources
7	Elena Yelmanova and Yuriy Romanyshyn	No-reference Metric of Generalized Contrast for Complex Images
8	Mariya Nazarkevych, Ivanna Klyujnyk, Roman Oliarnyk, Yurii Kynash and Hanna Nazarkevych.	Application Wave Tracing Algorithm For Image
9	Elena Yelmanova and Yuriy Romanyshyn	Automatic Histogram-based Contrast Enhancement for Low-contrast Images with Small-sized Objects
10	Lyubomyr Bartkiv and Yaroslav Bobitski	Application of Concave Diffraction Grating for Increasing Data Capacity of Polymer Optical Fiber

ORAL SESSION

Hall #1 of Library (16:00 – 17:00)

1	Leonid Zhiteckii and Klavdiya Solovchuk	Analysis of Multivariable Regulation Systems Using Pseudoinverse Model-Based Controllers
2	Yurii Kuts, Iuliia Lysenko, Oleksandr Dugin, Anatoliy Protasov, Valentin Uchanin and Olena Bliznuk	Using Multidifferential Transducer for Pulsed Eddy Current Object Inspection
3	Kostyantyn Kharchenko, Oleksandr Beznosyk and Valeriy Romanov	A Set of Instructions for Data Flow Virtual Machine
4	Ievgen Gorovyi, Alexey Roenko, Alexander Pitertsev, Ievgen Chervonyak and Vitalii Vovk	Real-Time System for Indoor User Localization and Navigation using Bluetooth Beacons

CITY TOUR

(17:00 – 21:00)

31.05.2017

IEEE MILESTONE CEREMONY

Hall “Bilka” of Library,
Igor Sikorsky Kyiv Polytechnic Institute
(10:30 – 13:00)

Mr. Costas Stasopoulos,

Past Director of the IEEE Region 8 (Europe, Middle East and Africa), Director
Member of the IEEE Board of Directors, Nicosia, Cyprus

Prof. Jozef Modelski,

2009-2010 Director of IEEE Region 8 (Europe, Africa and Middle East), IEEE
Fellow, Warsaw University of Technology, Warsaw, Poland

Prof. Roberto Sorrentino,

EuMA Co-founder and President (1998 – 2009), IEEE Fellow, University of
Perugia, Perugia, Italy

Prof. Andrew Tirkel,

Scientific Technology Co., East Brighton, Australia

Prof. Felix Yanovsky,

IEEE Ukraine Section Chair, Head of Electronics Department of the National
Aviation University, IEEE Fellow, Kyiv, Ukraine

Prof. Alexander Nosich,

O. Ya. Usikov Institute for Radiophysics and Electronics of the NASU, IEEE
Fellow, Kharkiv, Ukraine

IEEE MILESTONE

Zenit Parabolic Reflector L-band Pulsed Radar, 1938

The 1938 Zenit radar test at the Laboratory of Electromagnetic
Oscillations of the Ukrainian Institute of Physics and Technology
was a major advance in the development of radar. Designed by
Abram Slutskin, Alexander Usikov, and Semion Braude, microwave
scientists and magnetron pioneers, Zenit established the
practicality of combining the pulsed method and a shorter wave
band for determining precisely all three coordinates of airborne
targets.

May 2017



LUNCH

Academic Building #1, «Alma Mater» (13:00 – 14:00)

Track 5: Systems Analysis, Computer Science & Infocommunications

ORAL SESSION

Hall #1 of Library (14:00 – 15:30)

1	Besik Dundua (Invited Talk)	Combining Logic Programming and Second-Order Conditional Rewriting
2	Besik Dundua, Mikheil Rukhaia and Lia Kurtanidze	Unranked Tableaux Calculus for Web Related Applications
3	Volodymyr Posuvailo and Iryna Ivasenko	Corrosion Damage Estimation of Microstructure of Electric Arc Coating of Al-Mn Alloy in the Initial State and with PEO Coatings
4	Roman Vorobel, Iryna Ivasenko and Olena Berehulyak	Automatized Computer System for Evaluation of Rust Using Modified Single-Scale Retinex
5	Francesca Ortolani, Michele Scarpiniti, Danilo Communiello, Aurelio Uncini	Advances in Hypercomplex Adaptive Filtering for 3D Audio Processing
6	Oleh Kovaliuk and Dmytro Kovaliuk	Information systems development for open data analysis

POSTER SESSION

Library Floor (15:30 – 16:00)

1	Konstantin V. Koshkin, Natalia R. Knyrik, Viktor K. Partas and Pavel V. Nikitin	Portfolio management model of IT-projects
2	Mykhailo Granik and Volodymyr Mesyura	Fake News Detection Using Naive Bayes Classifier
3	Tetiana Hovorushchenko	Forming the Logical Conclusion about Sufficiency of Information of Software Requirements Specification for Software Quality Assessment by ISO 25010:2011
4	Oleksandr I. Marchenko and Olexsii O. Marchenko	Monte-Carlo Tree Search with Tree Shape Control

5	Mykola Pavlenko and Alexander Kalyuzhny	Analysis of quantization noises in multistage signal processing systems: a case study of Digital Down Converters (DDC)
6	Ivan Myroniv, Sergey Ostapov and Volodymyr Zhiharevich	The use of asynchronous cellular automata models to remove noise from an image
7	O.A. Sushchenko and Y.V. Beliavtsev	Robust Synthesis of Two-degree-of-freedom System for Ground Vehicle Equipment Stabilization

ORAL SESSION

Hall #1 of Library (16:00 – 17:00)

1	Artem Potebnia	Formation of the Multifractal Hypergraph Structure Reflecting the Self-Similarity Properties of the Computational Complexity Classes
2	Tatiana Shmeleva	Automated Composition of Petri Net Models for Cellular Structures
3	Vladyslav Kucher	RDMA-based Dataflow Management System
4	Oksana Pichugina and Sergey Yakovlev	Optimization on Polyhedral-Spherical Sets: Theory and Applications

SECTION'S 25th ANNIVERSARY BANQUET

(18:00 – 22:00)

Premier Hotel Rus: 4 Hospitalna str., Kyiv, 01601, Ukraine

01.06.2017

PLENARY SESSION

Hall #1 of Library, Igor Sikorsky Kyiv Polytechnic Institute
(09:00 – 09:50)

1	Andrejs Romanovs	Experience of the first joint master program in Latvia in logistics and supply chain management
2	Urban Burnik , Janez Zaletelj and Andrej Košir	Kinect based System for Student Engagement Monitoring

Track 5: Systems Analysis, Computer Science & Infocommunications

ORAL SESSION

Hall #1 of Library (10:00 – 11:30)

1	Vasyl Alieksieiev, Yuliia Synytsia, Elena Sharapova, Olena Ivanova and Denis Gorelov	Web-based application to collect and analyze users data for keystroke biometric authentication
2	Kseniia Yashyna and Katerina Yalova	Improvement of the Method of Building Dynamic Models of Technological Processes
3	Olha Tolochko	Analysis of observer-based control systems with unmeasured disturbance
4	Anatolij Sergiyenko, Anastasia Serhienko and Andriy Simonenko	A Method for Synchronous Dataflow Retiming
5	Yuriy Kondratenko, Galyna Kondratenko and Ievgen Sidenko	Two-Stage Method of Fuzzy Rule Base Correction for Variable Structure of Input Vector
6	Lev Korshevniuk	Generalized Formalization of Risks for Dynamic Risk Management Problems

POSTER SESSION

Library Floor (11:30 – 12:00)

1	Sergiy Prykhodko, Natalia Prykhodko, Lidiia Makarova and Kateryna Pugachenko	Detecting Outliers in Multivariate Non-Gaussian Data on the basis of Normalizing Transformations
2	Vasyl Yatskiv and Taras Tsavolyk.	Improvement of Data Transmission Reliability in Wireless Sensor Networks on The Basis of Residue Number System Correcting Codes Using the Special Module System
3	Alexander Soloviev and Victor Bondarenko	Optimization of VoIP network performance based on voice call routing and network reorganisation
4	Hryhoriy Barylo, Roman Holyaka, Volodymir Virt, Fedir Vezyr and Zenon Hotra	Parametric analysis of the input circles of measuring transducers of galvanostatic type impedance
5	Volodymyr Baliar	Estimation of LTE performance for delivery of multimedia broadcasting signals
6	Volodymyr Sherstiuk, Marina Zharikova and Igor Sokol	Approximate Spatial Model Based on Fuzzy-Rough Topology for Real-Time Decision Support Systems

ORAL SESSION

Hall #1 of Library (12:00 – 13:00)

1	Oleksandr Rolik, Eduard Zharikov, Valerii Kolesnik and Maxim Yasochka	Rule-based Algorithmic Approach for Solving Problems of Impact Analysis in Access Networks
2	Murat Karakaya, Gokhan Sengul and Erhan Gokcay	An IoT Application for Locating Victims Aftermath of an Earthquake
3	Teodor Mandziy	Pipe Weld X-ray Image Distortion Removal
4	Viktor Putrenko	Data Mining of Relationship in Croudsourcing Projects and Social Activities of Citizens

LUNCH

Academic Building #1, «Alma Mater» (13:00 – 14:00)

TUTORIAL

Hall "Bilka" of Library (14:00 – 16:00)

Title of Tutorial: Preparing and Reviewing Manuscripts for IEEE Journal Publications: IEEE Transactions on Energy Conversion

Abstract:

This tutorial aims at helping the IEEE UKRCON-2017 attendees interested in publishing or reviewing for IEEE journals to become more successful authors and productive reviewers. The current Editor-In-Chief (EIC) of the IEEE Transactions on Energy Conversion will present this tutorial and discuss the scope and emphasis of journals in IEEE Power & Energy Society (PES) to help prospective authors select the most appropriate venue for publishing their work. After an overview of journal's history and current status, the EIC will further discuss the review process from initial submission to actual publication, and explain the criteria and considerations behind the forms and questions used in the review process. The EIC will also share best practices and common mistakes from his experience of working with authors as well as reviewers, and discuss frequently asked questions, such as the relationship to conference publications, importance of experimental validation, and potential causes for plagiarism.

Presenter' Bio:

Dr. Juri Jatskevich received the Electrical Engineering Degree (B.S.E.E.) from Ukrainian National Agricultural University, Kyiv, in 1994. He received the M.S.E.E. and the Ph.D. degrees in Electrical Engineering from Purdue University, West Lafayette, USA, in 1997 and 1999, respectively. He is presently a Professor of Electrical and Computer Engineering at the University of British Columbia, Vancouver, Canada.

Dr. Jatskevich is active in IEEE Power & Energy Society (PES), Circuits and Systems Society (CAS), and Power Electronics Society (PELS), and is an IEEE Fellow for contributions to modeling of electric machines and switching converters. He has authored/co-authors over 80 journal articles and over 100 conference papers. He chaired the IEEE CAS Power Systems & Power Electronic Circuits Technical Committee in 2009-2010. He has served as an Associate Editor for the IEEE Transactions on Power Electronics for the period 2008 – 2013, and is presently the Editor-In-Chief of IEEE Transactions on Energy Conversion, and Editor of IEEE Power Engineering Letters. He was the general chair of the Sixteenth IEEE Workshop on Control and Modeling for Power Electronics (COMPEL 2015), which is a flagship event in Power Electronics society. He is also chairing the IEEE Task Force on Dynamic Average Modeling, under Working Group on Modeling and Analysis of System Transients Using Digital Programs. His research interests include power electronic systems, electrical machines and drives, modeling and simulation of electromagnetic transients.

RULES FOR PARTICIPATION

Official Language: English

Size of the poster: A0 or A1.

Duration of oral presentation: 10 min.

Duration of plenary presentation: 30 min.

LOCAL ORGANIZING COMMITTEE:

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Polytekhnichna Str., 16/9, Block 12, off.423, 03056, Kyiv, Ukraine

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