

19th International Symposium on Power Electronics - Ee2017
Venue: University of Novi Sad - Central Building, Novi Sad, Serbia
Preliminarni Program / Preliminary Program

www.dee.uns.ac.rs

Updated: Sept 21, 2017

Wednesday, 88 Oct. 2017.

PRE-CONFERENCE EVENTS

| | |
|----------------|---|
| 09:00 - 17:00h | Tutorials Registration // HARD & SOFT Student Competition (Preliminaries) |
| 09:30 - 10:00h | OPENING - Tutorials // Hard&Soft Student Competition |
| 10:00 - 13:30h | Tutorial 2 // Tutorial 4 (Refreshment in hall) |
| 13:30 - 14:00h | LUNCH |
| 14:30 - 18:00h | Tutorial 1 // Tutorial 3 (Refreshment in hall) |
| 18:30 - 20:30h | BEER PARTY (NS Craft Beers) |

CONFERENCE

| Time | Paper Id | Session | Paper title / Authors:family name | Authors: name | Affiliation | State |
|------|----------|---------|-----------------------------------|---------------|-------------|-------|
|------|----------|---------|-----------------------------------|---------------|-------------|-------|

Thursday, 19 Oct. 2017.

| | | |
|----------------|---|------------------|
| 09:00 - 18:00h | HARD & SOFT Student Competition (Preliminaries) | FTS-Reading Hall |
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| 09:00 - 18:00h | REGISTRATION |
|----------------|--------------|

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| 09:00 - 09:30h | PARTICIPANTS AND GUESTS ARRIVAL REFRESHMENT |
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|--------|-----------------|------------------|--------------|
| 09:30h | PLENARY Session | OPENING CEREMONY | AMPHITHEATER |
|--------|-----------------|------------------|--------------|

Chair: Prof. Vladimir Katić, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia
 Co-chair: dr Aleksandar Nikolić, Electrical Engineering Institute "Nikola Tesla", University of Belgrade, Belgrade, Serbia
 Co-chair:

- Opening
- Music
- Greetings

| | | | |
|--------|-----------------------|-----------------|--------------|
| 10:00h | PLENARY Session - KN1 | KEY-NOTE PAPERS | AMPHITHEATER |
|--------|-----------------------|-----------------|--------------|

Chair:
 Co-chair:

| | | | | | |
|--------|-------|--|--------|---------------------------------|-----|
| 10:00h | KN1-1 | IS SIC A GAME CHANGER? Boroyevich | Dushan | Virginia Tech, Blacksburg | USA |
| 10:40h | KN1-2 | HIGH FREQUENCY POWER ELECTRONICS USING GAN DEVICES Maksimovic | Dragan | University of Colorado, Boulder | USA |

| | |
|----------------|-------------------|
| 11:20 - 11:30h | REFRESHMENT BREAK |
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|--------|---------------|---------------|--------------|
| 11:30h | SESSION - PN1 | Panel SESSION | AMPHITHEATER |
|--------|---------------|---------------|--------------|

Chair:
 Co-chair:

| | | | | | |
|--------|-----|---|------------|----------------------------------|----------|
| 11:30h | PN1 | Power Quality: Recent findings and future needs | Jan | Technische Universitaet Dresden | Germany |
| | | Meyer | Jako | University of Technology Tallinn | Estonia |
| | | Kilter | Aleksandar | University of Belgrade | Serbia |
| | | Nikolic | Jovica | University of Manchester | UK |
| | | Milanovic | Igor | University of Ljubljana | Slovenia |
| | | Papic | Sasa | University of Edinburgh | UK |
| | | Djokic | | | |

| | |
|-----------------|-------------|
| 13:30h - 14:15h | LUNCH BREAK |
|-----------------|-------------|

| 14:15h | SESSION -T1.1 | POWER CONVERTERS AND DEVICES | AMPHITHEATER | | |
|--------|---------------|------------------------------|---|--|----------------|
| | Chair: | | | | |
| | Co-chair: | | | | |
| 14:15h | 01519 | T1.1-1 | Stability norms control using the virtual impedance concept for power frequency applications | | |
| | | Abojlala | Khaled | University of Strathclyde | United Kingdom |
| | | Holliday | Derrick | University of Strathclyde | United Kingdom |
| | | Xu | Lie | University of Strathclyde | United Kingdom |
| 14:30h | 01619 | T1.1-2 | Electric-Field-Coupled Single-Wire Power Transmission — Analytical Model and Experimental Demonstration | | |
| | | Chen | Xiyou | Dalian University of Technology, School of Electrical Engineering | China |
| | | Chen | Jianhui | Dalian University of Technology, School of Electrical Engineering | China |
| | | Li | Guanlin | Dalian University of Technology, School of Electrical Engineering | China |
| | | Mu | Xianmin | Dalian University of Technology, School of Electrical Engineering | China |
| | | Qi | Chen | Dalian University of Technology, School of Electrical Engineering | China |
| 14:45h | 01819 | T1.1-3 | Full Bridge MMC Converter Controller for Optimal HVDC Operation | | |
| | | Jovcic | Dragan | University of Aberdeen | United Kingdom |
| | | Lin | Weixing | University of Aberdeen | United Kingdom |
| | | Nguefeu | Samuel | RTE | France |
| | | Saad | Hani | RTE | France |
| 15:00h | 02219 | T1.1-4 | Dynamic Simulation Model of a Quasi-Z-Source Inverter with Parasitic Resistances and Saturable Inductor | | |
| | | Bašić | Mateo | University of Split, Faculty of Electrical Engineering, Mechanical Engineering, and Naval Architecture | Croatia |
| | | Vukadinović | Dinko | University of Split, Faculty of Electrical Engineering, Mechanical Engineering, and Naval Architecture | Croatia |
| | | Polić | Miljenko | University of Split, Faculty of Electrical Engineering, Mechanical Engineering, and Naval Architecture | Croatia |
| 15:15h | 02419 | T1.1-5 | Stress Reduction in High Voltage MIS Capacitor Fabrication | | |
| | | Banzhaf | Stephanie | Robert Bosch GmbH | Germany |
| | | Kenntner | Johannes | Robert Bosch GmbH | Germany |
| | | Grieb | Michael | Robert Bosch GmbH | Germany |
| | | Schwaiger | Stephan | Robert Bosch GmbH | Germany |
| | | Erlbacher | Tobias | Fraunhofer Institute for Integrated Systems and Device Technology | Germany |
| | | Bauer | Anton | Fraunhofer Institute for Integrated Systems and Device Technology | Germany |
| | | Frey | Lothar | University of Erlangen-Nuremberg, Chair of Electron Devices | Germany |
| 15:30h | 02519 | T1.1-6 | DC Bus Strength in DC Grid Protection | | |
| | | Zaja | Mario | University of Aberdeen | United Kingdom |
| | | Jovcic | Dragan | University of Aberdeen | United Kingdom |
| | | Hajian | Masood | University of Aberdeen | United Kingdom |
| 15:45h | 02919 | T1.1-7 | High-Current Low-Voltage Power Supplies for Superconducting Magnets | | |
| | | Coulinge | Emilien | European Organization for Nuclear Research – CERN | Switzerland |
| | | Burnet | Jean-Paul | European Organization for Nuclear Research – CERN | Switzerland |
| | | Dujic | Drazen | EPFL - PEL | Switzerland |
| 16:00h | 03519 | T1.1-8 | High Gain Bidirectional Multiport DC to DC Converter for DC Microgrid | | |
| | | Arif | Muhammad | COMSATS Institute Of Information Technology, Abbottabad. | Pakistan |
| | | Saleem | Jawad | COMSATS Institute Of Information Technology, Abbottabad. | Pakistan |
| | | Abbas | Qamar | COMSATS Institute Of Information Technology, Abbottabad. | Pakistan |
| | | Todorovic | Ivan | University of Novi Sad, Faculty of Technical Sciences | Serbia |
| | | Majid | Abdul | COMSATS Institute Of Information Technology, Abbottabad. | Pakistan |

| 14:15h | SESSION T4.1 | CONTROL AND MESUREMENT IN POWER ELECTRONICS - 1 | | HALL 1 |
|----------------|-------------------|---|---|--|
| Chair: | | | | |
| Co-chair: | | | | |
| 14:15h | 00419 | T4.1-1 | Modifications to the synchronverter algorithm to improve its stability and performance | |
| | | | Natarajan Vivek | Indian Institute of Technology Bombay |
| | | | Weiss George | Tel Aviv University |
| | | | | India |
| 14:30h | 00619 | T4.1-2 | Optimal Fractional Order PID Controllers Design Based on Genetic Algorithm for Time Delay Systems | |
| | | | Nekoui Mohammad Ali | University of Technology, Faculty of Electrical Engineering, K.N.Toosi |
| | | | Pakzad Mohammadali | Islamic Azad University, Department of Electrical Engineering, Science and Research Branch |
| | | | Pakzad Sara | Islamic Azad University, Departments of Electrical Engineering, South Tehran Branch |
| | | | | Iran |
| 14:45h | 01019 | T4.1-3 | Indirect Model Predictive Control Strategies with Input Filter Resonance Mitigation for a Matrix Converter Operating at Fixed Switching Frequency | |
| | | | Rivera Marco | University of Talca |
| | | | Nikolic Aleksandar | University of Belgrade, Electrical Engineering Institute Nikola Tesla |
| | | | Tarisciotti Luca | University of Nottingham |
| | | | Wheeler Pat | University of Nottingham |
| | | | | Chile |
| | | | | Serbia |
| | | | | United Kingdom |
| | | | | United Kingdom |
| 15:00h | 03019 | T4.1-4 | Conformal Mapping of Impedance Stability Models for System-Level Dynamics Assessments | |
| | | | Freijedo Francisco D. | EPFL - PEL |
| | | | Javaid Uzair | EPFL - PEL |
| | | | Dujic Drazen | EPFL - PEL |
| | | | | Switzerland |
| | | | | Switzerland |
| | | | | Switzerland |
| 15:15h | 03119 | T4.1-5 | Unipolar Switched Bidirectional Bridgeless Power Factor Correction Boost Rectifier With Adaptive Dual Current Mode Control | |
| | | | Lale Srdan | University of East Sarajevo, Faculty of Electrical Engineering |
| | | | Šoja Milimir | University of East Sarajevo, Faculty of Electrical Engineering |
| | | | Lubura Slobodan | University of East Sarajevo, Faculty of Electrical Engineering |
| | | | | Bosnia and Herzegovina |
| | | | | Bosnia and Herzegovina |
| | | | | Bosnia and Herzegovina |
| 15:30h | 03219 | T4.1-6 | Plug-and-play realization of the virtual infinite capacitor | |
| | | | Lin Jun | Tel Aviv University |
| | | | Weiss George | Tel Aviv University |
| | | | | Israel |
| | | | | Israel |
| 15:45h | 03319 | T4.1-7 | Optimal scheduling of a household refrigerator using adaptive model predictive technique | |
| | | | Bálint Roland | University of Pannonia |
| | | | Hangos Katalin M. | Hungarian Academy of Sciences |
| | | | Magyar Attila | University of Pannonia |
| | | | | Hungary |
| | | | | Hungary |
| | | | | Hungary |
| 16:00h | 03719 | T4.1-8 | Experimental validation of a Non-linear Robust Controller for DC-DC boost converters | |
| | | | Markou Achilles | National Technical University of Athens (NTUA) |
| | | | Palaioiannis Foivos | National Technical University of Athens (NTUA) |
| | | | Soldatos Argiris | National Technical University of Athens (NTUA) |
| | | | Hatziaargyriou Nikos | National Technical University of Athens (NTUA) |
| | | | | Greece |
| | | | | Greece |
| | | | | Greece |
| | | | | Greece |
| 16:15 - 16:30h | REFRESHMENT BREAK | | | |
| 16:30h | SESSION -T1.2 | POWER CONVERTERS AND DEVICES | | AMPHITHEATER |
| Chair: | | | | |
| Co-chair: | | | | |
| 16:30h | 04319 | T1.2-1 | Digital diagnosis of short-circuit failures and reconfiguration of a single-phase VSI | |
| | | | Oliveira Andre B. M. | CEFET-MG |
| | | | Simoes Marcelo G. | Colorado School of Mines |
| | | | Moreno Robson L. | UNIFEI |
| | | | Ribeiro Enio R. | UNIFEI |
| | | | | Brazil |
| | | | | United States |
| | | | | Brazil |
| | | | | Brazil |
| 16:45h | 05119 | T1.2-2 | A New Hybrid Boost-L Converter | |
| | | | Pop-Călimanu Ioana-Monica | Politehnica University Timișoara |
| | | | Renken Folker | Jade University of Wilhelmshaven, Oldenburg, Elsfleth |
| | | | Lascu Dan | Politehnica University Timișoara |
| | | | Lica Septimiu | Politehnica University Timișoara |
| | | | Gurbina Mircea | Politehnica University Timișoara |
| | | | | Romania |
| | | | | Germany |
| | | | | Romania |
| | | | | Romania |
| | | | | Romania |

| 16:30h | SESSION -T1.2 | POWER CONVERTERS AND DEVICES | AMPHITHEATER | |
|--------|---------------|------------------------------|--|--|
| | Chair: | | | |
| | Co-chair: | | | |
| 17:00h | 05319 | T1.2-3 | Design consideration for high frequency LLC resonant converter with matrix transformer | |
| | | Pajnić | Milan | University of Belgrade, School of Electrical Engineering |
| | | Pejović | Predrag | University of Belgrade, School of Electrical Engineering |
| | | Despotović | Željko | Mihajlo Pupin Institute |
| | | Lazić | Miroslav | Institute Iritel a.d. |
| | | Skender | Miodrag | Institute Iritel a.d. |
| 17:15h | 05719 | T1.2-4 | Characterization and Gate Drive Design of High Voltage Cascode GaN HEMT | |
| | | Pajnić | Milan | University of Belgrade, School of Electrical Engineering |
| | | Pejović | Predrag | University of Belgrade, School of Electrical Engineering |
| | | Despotović | Željko | Mihajlo Pupin Institute |
| | | Lazić | Miroslav | Institute Iritel a.d. |
| | | Skender | Miodrag | Institute Iritel a.d. |
| 17:30h | 06019 | T1.2-5 | Reliability Of Power Supplies For Induction Heating Through An Analysis Of The States In Operating Modes | |
| | | Prodanov | Prodan | Technical University of Gabrovo |
| | | Dankov | Dobroslav | Technical University of Gabrovo |
| 17:45h | 06219 | T1.2-6 | Digital Short-Circuit Diagnosis and Reconfiguration of a Fault Tolerant VSI | |
| | | Oliveira B. M. | Andre | CEFET-MG |
| | | Moreno L. | Robson | UNIFEI |
| | | Ribeiro R. | Enio | UNIFEI |
| 18:00h | 06619 | T1.2-7 | PWM Switching Strategy of Three Converters for Synchronous Adjustment of Transformer-Based System | |
| | | Oleschuk | Valentin | Institute of Power Engineering of the Academy of Sciences of Moldova |
| 18:15h | 07019 | T1.2-8 | A Modified Line-Commutated Inverter for Grid-Connected Photovoltaic Systems with Voltage-Based Maximum Power Point Tracking Method | |
| | | Unlu | Murat | Kocaeli University |
| | | Çamur | Sabri | Kocaeli University |
| | | Beşer | Ersay | Kocaeli University |
| | | Arifoğlu | Biröl | Kocaeli University |
| 16:15h | SESSION T3.1 | ELECTRICAL MACHINES | AMPHITHEATER | |
| | Chair: | | | |
| | Co-chair: | | | |
| 16:30h | 00519 | T3.1-1 | Dual Three-phase PM Generator Parameter Identification using Experimental and Simulated System Responses | |
| | | Zabaleta | Mikel | Ingeteam Power Technology |
| | | Levi | Emil | Liverpool John Moores University |
| | | Jones | Martin | Liverpool John Moores University |
| 16:45h | 01919 | T3.1-2 | Torque Ripple Calculation of Two-Phase IM Supplied by Three-Leg VSI with PWM Output Voltage Control | |
| | | Zaskalicky | Pavel | Technical University of Kosice |
| 17:00h | 02819 | T3.1-3 | Resistance Dissymmetry Localization Method based on Vector Space Decomposition Approach for Six-phase Induction Machines | |
| | | Rios Garcia | Natalia | University of Malaga |
| | | Gonzalez Prieto | Ignacio | University of Malaga |
| | | Duran Martinez | Mario J. | University of Malaga |
| | | Barrero Garcia | Federico | University of Seville |
| 17:15h | 03619 | T3.1-4 | Rotor slot harmonics based induction machine speed estimation | |
| | | Popadic | Bane | University of Novi Sad, Faculty of Technical Sciences |
| | | Vasic | Veran | University of Novi Sad, Faculty of Technical Sciences |
| | | Dumnic | Boris | University of Novi Sad, Faculty of Technical Sciences |
| | | Milicevic | Dragan | University of Novi Sad, Faculty of Technical Sciences |
| | | Vukajlovic | Nikola | University of Novi Sad, Faculty of Technical Sciences |

| 16:15h | SESSION T3.1 | ELECTRICAL MACHINES | AMPHITHEATER | |
|-----------------|-------------------|---------------------|---|--|
| Chair: | | | | |
| Co-chair: | | | | |
| 17:30h | 04619 | T3.1-5 | Influence of Rotor Geometry on Back Electromotive Force and Torque Waveforms of Brushless DC Motors | |
| | | | Camur Sabri | Kocaeli University Turkey |
| | | | Kandemir Beser | Esra Kocaeli University Turkey |
| 17:45h | 05519 | T3.1-6 | Portable Rotational Electromagnetic Energy Harvester with a Maximum Energy Tracking Power Management System | |
| | | | Dinulovic Dragan | Würth Elektronik eiSos GmbH Germany |
| | | | Shousha Mahmoud | Würth Elektronik eiSos GmbH Germany |
| | | | Brooks Michael | Würth Elektronik eiSos GmbH Germany |
| | | | Haug Martin | Würth Elektronik eiSos GmbH Germany |
| | | | Petrovic Tomislav | University of Nis, Faculty of Mechanical Engineering Serbia |
| 18:00h | 05619 | T3.1-7 | Vector Space Decomposition Algorithm for Asymmetrical Multiphase Machines | |
| | | | Zoric Ivan | Liverpool John Moores University United Kingdom |
| | | | Jones Martin | Liverpool John Moores University United Kingdom |
| | | | Levi Emil | Liverpool John Moores University United Kingdom |
| 18:15h | 07119 | T3.1-8 | Convergence and stability analysis of IM rotor time constant estimators based on MRAS scheme | |
| | | | Popovic Vladimir | University of Novi Sad, Faculty of Technical Sciences Serbia |
| | | | Oros Djura | University of Novi Sad, Faculty of Technical Sciences Serbia |
| | | | Matic Petar | University of Banja Luka, Faculty of Electrical Engineering Bosnia and Herzegovina |
| | | | Marcetic Darko | University of Novi Sad, Faculty of Technical Sciences Serbia |
| 18:30h - 20:30h | WELCOME RECEPTION | | | |

Friday, 20 Oct. 2017.

| 09:00 - 18:00h | | HARD & SOFT Student Competition (Preliminaries) | | FTS-Reading Hall | | |
|----------------|---------------|---|---|---|---|--|
| 09:00 - 17:00h | | REGISTRATION | | | | |
| 09:00h | SESSION -T6.1 | POWER QUALITY | | AMPHITHEATER | | |
| Chair: | | | | | | |
| Co-chair: | | | | | | |
| 09:00h | 00819 | T6.1-1 | Power Harmonics Estimation Based on Analytical Signal Concept | Petrovic Predrag | University of Kragujevac, Faculty of Technical Sciences, Cacak | Serbia |
| 09:15h | 01319 | T6.1-2 | A Notch Filter based Active Damping of LLCL Filter in Shunt Active Power Filter | Büyük Mehmet Tan Adnan Inci Mustafa Tümay Mehmet | Çukurova University Çukurova University Çukurova University Çukurova University | Turkey Turkey Turkey Turkey |
| 09:30h | 04819 | T6.1-3 | A New Multilevel Inverter Based Parallel Active Power Filter | Karaarslan Korhan Arifoglu Birol Beser Ersoy Camur Sabri | Kocaeli University Kocaeli University Kocaeli University Kocaeli University | Turkey Turkey Turkey Turkey |
| 09:45h | 04919 | T6.1-4 | POWER QUALITY DATA LOGGER WITH INTERNET ACCESS | Mitrović Vladimir Mijalković Milan | The School of Electrical and Computer Engineering of Applied Studies The School of Electrical and Computer Engineering of Applied Studies | Serbia Serbia |
| 10:00h | 06319 | T6.1-5 | Overview of voltage dips detection analysis methods | Stanisavljević Aleksandar M. Katić Vladimir A. Dumnić Boris P. Popadić Bane P. | University of Novi Sad, Faculty of Technical Sciences University of Novi Sad, Faculty of Technical Sciences University of Novi Sad, Faculty of Technical Sciences University of Novi Sad, Faculty of Technical Sciences | Serbia Serbia Serbia Serbia |
| 10:15h | 07319 | T6.1-6 | Power Factor Correction of Electric Arc Furnace Using Active and Passive Compensation | Laketić Nikola Radaković Jovan Majtal Zoltan | Avalon Partners d.o.o. Operator Distributivnog Sistema, Ogranak Subotica Termovent SC Livnica Čelika AD | Serbia Serbia Serbia |
| 09:00h | SESSION -T7.1 | RENEWABLE AND DISTRIBUTED ENERGY SOURCES | | HALL 1 | | |
| Chair: | | | | | | |
| Co-chair: | | | | | | |
| 09:00h | 00919 | T7.1-1 | A Novel Isolated-port Equalizer for Photovoltaic Systems Under Mismatch Conditions | Zhang Wei Ping Li Jie Mao Peng | The North China University of Technology The North China University of Technology The North China University of Technology | China China China |
| 09:15h | 02019 | T7.1-2 | ADN Optimal Operation Strategy based on Probabilistic Load Flow | Huang Wei Yang Shuwen Hua Liangliang Guo Zhaorui Wu Juan Ge Liangjun | North China Electric Power University North China Electric Power University East Inner Mongolia Electric Power Company Limited North China Electric Power University North China Electric Power University North China Electric Power University | China China China China China China |
| 09:30h | 02719 | T7.1-3 | Stabilizing the VSI response in microgrids via novel PI controllers | Papageorgiou Panos Alexandridis Antonio | University of Patras University of Patras | Greece Greece |
| 09:45h | 07519 | T7.1-4 | Future of High Power PV Plants – 1500V inverters | Čorba Zoltan Popadić Bane Katić Vladimir Dumnić Boris Milićević Dragan | University of Novi Sad, Faculty of Technical Sciences University of Novi Sad, Faculty of Technical Sciences University of Novi Sad, Faculty of Technical Sciences University of Novi Sad, Faculty of Technical Sciences University of Novi Sad, Faculty of Technical Sciences | Serbia Serbia Serbia Serbia Serbia |

| 09:00h | SESSION -T7.1 | RENEWABLE AND DISTRIBUTED ENERGY SOURCES | HALL 1 |
|-----------------|-----------------------|---|---|
| | Chair: | | |
| | Co-chair: | | |
| 10:00h | 06419 | T7.1-5 | Explicit Active Power Reference Tracking Algorithm for Photovoltaic Converter |
| | | Vekić | Marko University of Novi Sad, Faculty of Technical Sciences Serbia |
| | | Porobić | Vlado University of Novi Sad, Faculty of Technical Sciences Serbia |
| | | Grabić | Stevan University of Novi Sad, Faculty of Technical Sciences Serbia |
| | | Adžić | Evgenije University of Novi Sad, Faculty of Technical Sciences Serbia |
| | | Zogogianni | Charoula University of Patras Greece |
| 10:15h | 06519 | T7.1-6 | Precise PV Active Power - Converter Control Rapid Prototyping Framework |
| | | Porobic | Vlado University of Novi Sad, Faculty of Technical Sciences Serbia |
| | | Adzic | Evgenije University of Novi Sad, Faculty of Technical Sciences Serbia |
| | | Grabic | Stevan University of Novi Sad, Faculty of Technical Sciences Serbia |
| | | Vekic | Marko University of Novi Sad, Faculty of Technical Sciences Serbia |
| | | Rapaic | Milan University of Novi Sad, Faculty of Technical Sciences Serbia |
| 10:30 - 10:50h | | REFRESHMENT BREAK | |
| 10:50h | PLENARY Session - KN2 | KEY-NOTE PAPERS | AMPHITHEATER |
| | Chair: | | |
| | Co-chair: | | |
| 10:50h | KN2-1 | IMPACT OF SMART SOLUTIONS ON DISTRIBUTION NETWORK DEVELOPMENT | |
| | | Levi | Victor University of Manchester United Kingdom |
| 11:30h | PLENARY Session - IP1 | INVITED PAPERS | AMPHITHEATER |
| | Chair: | | |
| | Co-chair: | | |
| 11:30h | 04119 | IP1-1 | Future of Electric Vehicle Charging |
| | | Chandra Mouli | Gautham Ram Delft University of Technology Netherlands |
| | | Venugopal | Prasanth Delft University of Technology Netherlands |
| | | Bauer | Pavol Delft University of Technology Netherlands |
| 12:00h | 08219 | IP1-2 | Design for Reliability in Renewable Energy Systems |
| | | Blaabjerg | Frede Aalborg University, Department of Energy Technology Denmark |
| | | Zhou | Dao Aalborg University, Department of Energy Technology Denmark |
| | | Sangwongwanich | Ariya Aalborg University, Department of Energy Technology Denmark |
| | | Wang | Huai Aalborg University, Department of Energy Technology Denmark |
| 12:30h | 01719 | IP1-3 | Large Wind Generators Design, Performance and Control: An Overview |
| | | Boldea | Ion University Politehnica, Timisoara Romania |
| | | Popa (Moldovan) | Ana University Politehnica, Timisoara Romania |
| | | Tutelea | Lucian University Politehnica, Timisoara Romania |
| 13:00h - 14:00h | | LUNCH BREAK | |
| 14:00h | SESSION - PN2 | Panel SESSION | AMPHITHEATER |
| | Chair: | | |
| | Co-chair: | | |
| 14:00h | PN2 | The Key Milestones in the Evolution of Induction Motor Drives | |
| | | Stefanovic | Victor V-S Drives Consulting Afton, Virginia USA |
| | | Boldea | Ion Politehnica of Timisoara Romania |
| | | Blasko | Vladimir United Technologies Research Center USA |
| | | Blaabjerg | Frede Aalborg University, Department of Energy Technology Denmark |
| 16:00 - 16:15h | | REFRESHMENT BREAK | |

| 16:15h | SESSION -T2.1 | AUTOMOTIVE AND INDUSTRIAL DRIVES | | AMPHITHEATER |
|-----------|---------------|---|--|--|
| Chair: | | | | |
| Co-chair: | | | | |
| 16:15h | 02319 | T2.1-1 | Model identification and parameter estimation of lithium ion batteries for diagnostic purposes | |
| | | | Pózna | Anna University of Pannonia Hungary |
| | | | Magyar | Attila University of Pannonia Hungary |
| | | | Hangos | Katalin Institute for Computer Science and Control Hungary |
| 16:30h | 04019 | T2.1-2 | Achieving Maximum Torque for Switched Reluctance Motor Drive over its Entire Speed Range | |
| | | | Anuchin | Alecksey Moscow Power Engineering Institute Russian Federation |
| | | | Lashkevich | Maxim Moscow Power Engineering Institute Russian Federation |
| | | | Aliamkin | Dmitry Moscow Power Engineering Institute Russian Federation |
| | | | Briz | Fernando University of Oviedo Spain |
| 16:45h | 05419 | T2.1-3 | Mechanical Arrangements Onboard Ship of Innovative Permanent Magnet Linear Actuators for Steering Gear | |
| | | | Bruzzese | Claudio University of Rome, Dept. of Astronautical, Electrical and Energy Engineering (DAEEE), Rome Italy |
| | | | Ruggeri | Enrico University of Rome, Dept. of Astronautical, Electrical and Energy Engineering (DAEEE), Rome Italy |
| | | | Rafiei | Mohamed University of Rome, Dept. of Astronautical, Electrical and Energy Engineering (DAEEE), Rome Italy |
| | | | Zito | Damiano University of Rome, Dept. of Astronautical, Electrical and Energy Engineering (DAEEE), Rome Italy |
| | | | Santini | Ezio University of Rome, Dept. of Astronautical, Electrical and Energy Engineering (DAEEE), Rome Italy |
| | | | Mazzuca | Teresa General Staff of the Italian Navy Italian Ministry of Defense Rome, Italy Italy |
| | | | Lipardi | Gennaro 2nd Rep./Ship System- 4th Div./Propulsion and Energy NAVARM, Italian Navy Rome, Italy Italy |
| 17:00h | 06119 | T2.1-4 | A New Discrete-time Super Twisting Control of a First Order Plant with Input Saturation | |
| | | | Milosavljević | Čedomir University of East Sarajevo, Faculty of Electrical Engineering Bosnia and Herzegovina |
| | | | Peruničić | Branislava University of Sarajevo, Faculty of Electrical Engineering Bosnia and Herzegovina |
| | | | Petronijević | Milutin University of Niš, Faculty of Electronic Engineering Serbia |
| | | | Veselić | Boban University of Niš, Faculty of Electronic Engineering Serbia |
| 16:15h | SESSION T4.2 | CONTROL AND MESUREMENT IN POWER ELECTRONICS | | HALL 1 |
| Chair: | | | | |
| Co-chair: | | | | |
| 16:15h | 03819 | T4.2-1 | Optimized Method for Speed Estimation Using Incremental Encoder | |
| | | | Anuchin | Alecksey Moscow Power Engineering Institute Russian Federation |
| | | | Astakhova | Valentina Moscow Power Engineering Institute Russian Federation |
| | | | Shpak | Dmitry Moscow Power Engineering Institute Russian Federation |
| | | | Zharkov | Alexandr Moscow Power Engineering Institute Russian Federation |
| | | | Briz | Fernando University of Oviedo Spain |
| 16:30h | 03919 | T4.2-2 | Analysis of discrete VS-PLL structure used for grid parameters estimation | |
| | | | Lubura | Slobodan University of East Sarajevo, Faculty of Electrical Engineering Bosnia and Herzegovina |
| | | | Ristovic Krstic | Milica University of East Sarajevo, Faculty of Electrical Engineering Bosnia and Herzegovina |
| | | | Lale | Srdjan University of East Sarajevo, Faculty of Electrical Engineering Bosnia and Herzegovina |
| | | | Soja | Milomir University of East Sarajevo, Faculty of Electrical Engineering Bosnia and Herzegovina |
| | | | Milosavljevic | Cedomir University of East Sarajevo, Faculty of Electrical Engineering Bosnia and Herzegovina |
| 16:45h | 04219 | T4.2-3 | Impedance Stability Assessment of Active Damping Strategies for LCL Grid-Connected Converters | |
| | | | Rodriguez-Diaz | Enrique Aalborg University Denmark |
| | | | Vasquez | Juan C. Aalborg University Denmark |
| | | | Guerrero | Josep M. Aalborg University Denmark |
| | | | Freijedo | Francisco D. EPFL - PEL Switzerland |
| 17:00h | 05219 | T4.2-4 | Modeling and Simulation of Controllable AC Series Resistive Load | |
| | | | Oliveira | Rafael G. Federal University of Itajuba, Institute of Systems Engineering and Information Technology Brazil |
| | | | Ferreira | Luis H. C. Federal University of Itajuba, Institute of Systems Engineering and Information Technology Brazil |
| | | | Ribeiro | Enio R. Federal University of Itajuba, Institute of Systems Engineering and Information Technology Brazil |
| 17:15h | 05819 | T4.2-5 | Fast and Efficient Placement of Fault Indicators Based on the Pattern Search Algorithm | |
| | | | Zeljковиć | Čedomir University of Banja Luka, Faculty of Electrical Engineering Bosnia and Herzegovina |
| | | | Mršić | Predrag University of Banja Luka, Faculty of Electrical Engineering Bosnia and Herzegovina |
| 19:30h | GALA DINER | | | |

Saturday, 21 Oct. 2017.

| | | | | |
|----------------|---|---|--|---|
| 08:00 - 12:00h | HARD & SOFT Student Competition (Preliminaries) | | FTS-Reading Hall | |
| 08:00 - 12:00h | REGISTRATION | | | |
| 10:00h | PLENARY Session - KN3 | KEY-NOTE PAPERS | AMPHITHEATER | |
| | Chair: | | | |
| | Co-chair: | | | |
| 10:00h | KN3-1 | MVDC - TECHNOLOGIES AND SYSTEMS | | |
| | | Dujic | Drazen | EPFL - PEL |
| | | | | Switzerland |
| 10:40h | KN3-2 | BMW ELECTRICAL DRIVES FOR BATTERY AND PLUG-IN HYBRID VEHICLES | | |
| | | Knezevic | Jovan | BMW Group |
| | | | | Germany |
| 11:20 - 11:30h | REFRESHMENT BREAK | | | |
| 11:30h | SESSION -T7.2 | RENEWABLE AND DISTRIBUTED ENERGY SOURCES | AMPHITHEATER | |
| | Chair: | | | |
| | Co-chair: | | | |
| 11:30h | 06819 | T7.2-1 | Computer-Aided Model Parameter Extraction of Photovoltaic Modules using SPICE | |
| | | | Gadjeva | Elissaveta |
| | | | | Technical University of Sofia |
| | | | Hristov | Marin |
| | | | | Technical University of Sofia |
| | | | | Bulgaria |
| 11:45h | 03419 | T7.2-2 | Application of Mobile Solar OFF-grid Generator in Irrigation System - a case study | |
| | | | Majstorović | Milovan R. |
| | | | | University of Belgrade, School of Electrical Engineering |
| | | | Despotović | Željko V. |
| | | | | University of Belgrade, Electrical Engineering Institute Nikola Tesla |
| | | | Ristić | Leposava |
| | | | | University of Belgrade, School of Electrical Engineering |
| | | | | Serbia |
| 12:00h | 07719 | T7.2-3 | Techno-economic analysis of rooftop PV power plants in the Republic of Serbia | |
| | | | Savić | Nemanja |
| | | | | University of Novi Sad, Faculty of Technical Sciences |
| | | | Katić | Vladimir |
| | | | | University of Novi Sad, Faculty of Technical Sciences |
| | | | Milićević | Dragan |
| | | | | University of Novi Sad, Faculty of Technical Sciences |
| | | | Dumnić | Boris |
| | | | | University of Novi Sad, Faculty of Technical Sciences |
| | | | Katić | Nenad |
| | | | | University of Novi Sad, Faculty of Technical Sciences |
| | | | | Serbia |
| 12:15h | 08319 | T7.2-4 | Control of Electrical Generator used in Sigma Wave Energy Conversion System | |
| | | | Dumnic | Boris |
| | | | | University of Novi Sad, Faculty of Technical Sciences |
| | | | Vukajlovic | Nikola |
| | | | | University of Novi Sad, Faculty of Technical Sciences |
| | | | Vujkov | Barbara |
| | | | | University of Novi Sad, Faculty of Technical Sciences |
| | | | Adzic | Evgenije |
| | | | | University of Novi Sad, Faculty of Technical Sciences |
| | | | Popadic | Bane |
| | | | | University of Novi Sad, Faculty of Technical Sciences |
| | | | Milicevic | Dragan |
| | | | | University of Novi Sad, Faculty of Technical Sciences |
| | | | Katic | Vladimir |
| | | | | University of Novi Sad, Faculty of Technical Sciences |
| | | | Corba | Zoltan |
| | | | | University of Novi Sad, Faculty of Technical Sciences |
| | | | Jerkan | Dejan |
| | | | | University of Novi Sad, Faculty of Technical Sciences |
| | | | Dragic | Mile |
| | | | | Sigma Energy d. o. o. |
| | | | Hofman | Milan |
| | | | | University of Belgrade |
| | | | | Slovenia |
| | | | | Serbia |

| 11:30h | SESSION T4.3 | CONTROL AND MESUREMENT IN POWER ELECTRONICS | | HALL 1 |
|----------------|--|---|---|--|
| Chair: | | | | |
| Co-chair: | | | | |
| 11:30h | 07219 | T4.3-1 | Group-Delay-Controlled Multiple-Resonator-Based Harmonic Analysis | |
| | | | Kušljević | Miodrag Termoelektro Enel ad Serbia |
| | | | Tomić | Josif University of Novi Sad, Faculty of Technical Sciences Serbia |
| | | | Poljak | Predrag Institute of Chemistry, Technology and Metallurgy Serbia |
| 11:45h | 07919 | T4.3-2 | Three channels device for current transformers accuracy testing | |
| | | | Naumovic Vukovic | Dragana Electrical Engineering Institute "Nikola tesla" Serbia |
| | | | Skundric | Slobodan Electrical Engineering Institute "Nikola tesla" Serbia |
| | | | Zigic | Aleksandar Electrical Engineering Institute "Nikola tesla" Serbia |
| 12:00h | 08019 | T4.3-3 | Multilevel converter with variable flying capacitor voltage used for virtual infinite capacitor | |
| | | | Lin | Jun Tel Aviv University Israel |
| | | | Weiss | George Tel Aviv University Israel |
| 12:15h | 08119 | T4.3-4 | Control of Rotary Exciter with Series and Separately Excitation Windings | |
| | | | Veinovic | Slavko University of Belgrade, Electrical Engineering Institute Nikola Tesla Serbia |
| | | | Stojic | Djordje University of Belgrade, Electrical Engineering Institute Nikola Tesla Serbia |
| | | | Joksimovic | Dusan University of Belgrade, Electrical Engineering Institute Nikola Tesla Serbia |
| | | | Klasnic | Ilija University of Belgrade, Electrical Engineering Institute Nikola Tesla Serbia |
| 12:30h | CLOSING | | | |
| 13:00 - 15:00h | Hard&Soft Student Competition – FINALE | | AMPHITEATER | |