19th International Symposium on Power Electronics - Ee2017

Venue: University of Novi Sad - Central Building, Novi Sad, Serbia

Preliminarni Program / Preliminary Program

Wednesday, 18 Oct. 2017.

PRE-CONFERENCE EVENTS

09:00 - 17:00h	Tutorials Registration // HARD & SOFT Student Competition (Preliminaries) FTS-Reading Hall
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	
09:00 - 18:00h			REGISTRATION			
09:30h	PLENARY Session		OPENING CEREMONY		Central builidng UNS-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:	Prof. Dušan Boroyevich, Virginia Tech, Blacksburg, USA			
			- Opening			
			- Music			
			- Greetings			
10:00h	PLENARY Session - KN1		KEY-NOTE PAPERS		Central builidng UNS-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			
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			
11:30h	SESSION - PN1		Panel SESSION		Central builidng UNS-AMPHITHEATER	
		Chair:	Prof. Jan Mayer, Technioshe University, Dresden, Germany			
		Co-chair:	Prof. Jovica Milanovic, The University of Manchester, Manchester, United Kingdom			
11:30h		PN1	Power Quality: Recent findings and future needs			
			Meyer	Jan	Technische Universitaet Dresden	Germany
			Kilter	Jako	University of Technology Tallinn	Estonia
			Nikolic	Aleksandar	University of Belgrade	Serbia
			Milanovic	Jovica	University of Manchester	United Kingdom
			Papic	Igor	University of Ljubljana	Slovenia
			Djokic	Sasa	University of Edinburgh	United Kingdom
13:30h - 14:15h			LUNCH BREAK			

14:15h	SESSION -T1.1		POWER CONVERTERS AND DEVICES		Central builidng UNS-AMPHITHEATER	
		Chair:	Dragan Jovcic, University of Aberdeen, United Kingdom			
		Co-chair:	Stevan Grabic, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
14:15h	01519	T1.1-1	Stability norms control using the virtual impedance concept for power frequency applications			
			Abojlala	Khaled	University of Strathclyde, Department of Electronic and Electrical Engineering	United Kingdom
			Holliday	Derrick	University of Strathclyde, Department of Electronic and Electrical Engineering	United Kingdom
			Xu	Lie	University of Strathclyde, Department of Electronic and Electrical Engineering	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 HVDC Operation in Normal and DC Fault Conditions			
			Jovcic	Dragan	University of Aberdeen, School of Engineering, King's College	United Kingdom
			Lin	Weixing	University of Aberdeen, School of Engineering, King's College	United Kingdom
			Nguefeu	Samuel	Réseau de Transport d'Electricité	France
			Saad	Hani	Réseau de Transport d'Electricité	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	Fraunhofer Institute for Integrated Systems and Device Technology / 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, School of Engineering	United Kingdom
			Jovcic	Dragan	University of Aberdeen, School of Engineering	United Kingdom
			Hajian	Masood	University of Aberdeen, School of Engineering	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	Ecole Polytechnique Federale de Lausanne, Power Electronics Laboratory	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, Department of Electrical Engineering	Pakistan
			Saleem	Jawad	COMSATS Institute Of Information Technology, Department of Electrical Engineering	Pakistan
			Abbas	Qamar	COMSATS Institute Of Information Technology, Department of Electrical Engineering	Pakistan
			Todorovic	Ivan	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Majid	Abdul	COMSATS Institute Of Information Technology, Department of Electrical Engineering	Pakistan

14:15h	SESSION T4.1		CONTROL AND MESUREMENT IN POWER ELECTRONICS - 1		Central builidng UNS-HALL 1	
		Chair:	Darko Marcetic, University of Novi Sad, faculty of Technical Sciences, Novi Sad, Serbia			
		Co-chair:	Karol Kyslan, Technical University of Kosice, Kosice, Slovakia			
14:15h	00419	T4.1-1	Modifications to the synchronverter algorithm to improve its stability and performance			
			Weiss	George	Tel Aviv University, School of Electrical Engineering	Israel
			Natarajan	Vivek	Indian Institute of Technology Bombay, Systems and Control Engineering Group	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	Iran
			Pakzad	Mohammadali	Islamic Azad University, Department of Electrical Engineering, Science and Research	Iran
			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	Univesity of Talca,Faculty of Engineering	Chile
			Nikolic	Aleksandar	University of Belgrade, Electrical Engineering Institute Nikola Tesla	Serbia
			Tarisciotti	Luca	University of Nottingham, Dep. of Electrical and Electronic Engineering	United Kingdom
			Wheeler	Pat	University of Nottingham, Dep. of Electrical and Electronic Engineering	United Kingdom
15:00h	03019	T4.1-4	Conformal Mapping of Impedance Stability Models for System-Level Dynamics Assessments			
			Freijedo	Francisco D.	Ecole Polytechnique Federale de Lausanne, Power Electronics Laboratory	Switzerland
			Javaid	Uzair	Ecole Polytechnique Federale de Lausanne, Power Electronics Laboratory	Switzerland
			Dujic	Drazen	Ecole Polytechnique Federale de Lausanne, Power Electronics Laboratory	Switzerland
15:15h	03119	T4.1-5	Unipolar Switched Bidirectional Bridgeless Power Factor Correction Boost Rectifier With Adaptive Dual Current Mode Control			
			Lale	Srđan	University of East Sarajevo, Faculty of Electrical Engineering	Bosnia and Herzegovina
			Šoja	Milomir	University of East Sarajevo, Faculty of Electrical Engineering	Bosnia and Herzegovina
			Lubura	Slobodan	University of East Sarajevo, Faculty of Electrical Engineering	Bosnia and Herzegovina
15:30h	03219	T4.1-6	Plug-and-play realization of the virtual infinite capacitor			
			Lin	Jun	Tel Aviv University, School of Electrical Engineering	Israel
			Weiss	George	Tel Aviv University, School of Electrical Engineering	Israel
15:45h	03319	T4.1-7	Optimal scheduling of a household refrigerator using adaptive model predictive technique			
			Bálint	Roland	University of Pannonia, Faculty of Information Technology	Hungary
			Hangos	Katalin M.	Hungarian Academy of Sciences,Institute for Computer Science and Control	Hungary
			Magyar	Attila	University of Pannonia, Faculty of Information Technology	Hungary
16:00h	03719	T4.1-8	Experimental validation of a Non-linear Robust Controller for DC-DC boost converters			
			Markou	Achilleas	National Technical Univ. of Athens (NTUA), School of Electrical and Computer Engin.	Greece
			Palaiogiannis	Foivos	National Technical Univ. of Athens (NTUA), School of Electrical and Computer Engin.	Greece
			Soldatos	Argiris	National Technical Univ. of Athens (NTUA), School of Electrical and Computer Engin.	Greece
			Hatziargyriou	Nikos	National Technical Univ. of Athens (NTUA), School of Electrical and Computer Engin.	Greece
16:15 - 16:30h			REFRESHMENT BREAK			
16:30h	SESSION -T1.2		POWER CONVERTERS AND DEVICES		Central builidng UNS-AMPHITHEATER	
		Chair:	Predrag Pejovic, University of Belgrade, School of Electrocal Engineering, Belgrade, Serbia			
		Co-chair:	Goce Arsov, University St. Kiril and Metodij, FEIT, Skopje, Macedonia			
16:30h	05119	T1.2-1	A New Hybrid Boost-L Converter			
			Pop-Călimanu	Ioana-Monica	Politehnica University Timişoara, Department of Applied Electronics	Romania
			Renken	Folker	Jade University of Wilhelmshaven, Oldenburg, Elsfleth,Dep. of Engin., Autom. and PE	Germany
			Lascu	Dan	Politehnica University Timişoara, Department of Applied Electronics	Romania
			Lica	Septimiu	Politehnica University Timişoara, Department of Applied Electronics	Romania
			Gurbina	Mircea	Politehnica University Timişoara, Department of Applied Electronics	Romania

	SESSION -T1.2		POWER CONVERTERS AND DEVICES		Central builidng UNS-AMPHITHEATER	
		Chair:	Predrag Pejovic, University of Belgrade, School of Electrocal Engineering, Belgrade, Serbia			
		Co-chair:	Goce Arsov, University St. Kiril and Metodij, FEIT, Skopje, Macedonia			
16:45h	05319	T1.2-2	Design consideration for high frequency LLC resonant converter with matrix transformer			
			Pajnić	Milan	University of Belgrade, School of Electrical Engineering	Serbia
			Pejović	Predrag	University of Belgrade, School of Electrical Engineering	Serbia
			Despotović	Željko	University of Belgrade, Mihajlo Pupin Institute	Serbia
			Lazić	Miroslav	Institute Iritel a.d.	Serbia
			Skender	Miodrag	Institute Iritel a.d.	Serbia
17:00h	05719	T1.2-3	Characterization and Gate Drive Design of High Voltage Cascode GaN HEMT			
			Pajnić	Milan	University of Belgrade, School of Electrical Engineering	Serbia
			Pejović	Predrag	University of Belgrade, School of Electrical Engineering	Serbia
			Despotović	Željko	University of Belgrade, Mihajlo Pupin Institute	Serbia
			Lazić	Miroslav	Institute Iritel a.d.	Serbia
			Skender	Miodrag	Institute Iritel a.d.	Serbia
17:15h	06019	T1.2-4	Reliability Of Power Supplies For Induction Heating Through An Analysis Of The States In Operating Modes			
			Prodanov	Prodan	Technical University of Gabrovo, Department of Electronics	Bulgaria
			Dankov	Dobroslav	Technical University of Gabrovo, Department of Electronics	Bulgaria
17:30h	07019	T1.2-5	A Modified Line-Commutated Inverter for Grid-Connected Photovoltaic Systems with Voltage-Based Maximum Power Point Tracking Method			
			Unlu	Murat	Kocaeli University, Department of Electrical Engineering	Turkey
			Çamur	Sabri	Kocaeli University, Department of Electrical Engineering	Turkey
			Beşer	Ersoy	Kocaeli University, Department of Electrical Engineering	Turkey
			Arifoğlu	Birol	Kocaeli University, Department of Electrical Engineering	Turkey
16:30h	SESSION T3.1		ELECTRICAL MACHINES		Central builidng UNS-HALL 1	
		Chair:	Emil Levi, Liverpool John Moores University, United Kingdom			
		Co-chair:	Evgenije Adžić, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
16:30h	00519	T3.1-1	Dual Three-phase PM Generator Parameter Identification using Experimental and Simulated System Responses			
			Zabaleta	Mikel	Ingeteam Power Technology S. A., Windpower R&D Department	Spain
			Levi	Emil	Liverpool John Moores University, Faculty of Engineering and Technology	United Kingdom
			Jones	Martin	Liverpool John Moores University, Faculty of Engineering and Technology	United Kingdom
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, Faculty of Electrical Engineering and Informatics	Slovakia
17:00h	03619	T3.1-3	Rotor slot harmonics based induction machine speed estimation			
			Popadic	Bane	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Vasic	Veran	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Dumnic	Boris	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Milicevic	Dragan	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Vukajlovic	Nikola	University of Novi Sad, Faculty of Technical Sciences	Serbia

	SESSION T3.1		ELECTRICAL MACHINES		Central builidng UNS-HALL 1	
		Chair:	Emil Levi, Liverpool John Moores University, United Kingdom			
		Co-chair:	Evgenije Adžić, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
17:15h	05519	T3.1-4	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 / Cairo University, Faculty of Engineering	Germany
			Brooks	Michael	Würth Elektronik eiSos GmbH	Germany
			Haug	Martin	Würth Elektronik eiSos GmbH	Germany
			Petrovic	Tomislav	University of Niš, Faculty of Mechanical Engineering	Serbia
17:30h	05619	T3.1-5	Vector Space Decomposition Algorithm for Asymmetrical Multiphase Machines			
			Zoric	Ivan	Liverpool John Moores University, Faculty of Engineering and Technology	United Kingdom
			Jones	Martin	Liverpool John Moores University, Faculty of Engineering and Technology	United Kingdom
			Levi	Emil	Liverpool John Moores University, Faculty of Engineering and Technology	United Kingdom
17:45h	07119	T3.1-6	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
16:30h	SESSION IND.1		INDUSTRY SESSION		Central builidng UNS-ENTRANCE REAR HALL	
		Chair:	Boris Dumnic, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
		Co-chair:	Dragan Milicevic, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
16:30h		IND.1-1	DESIGN ACTIVITIES OF THE CENTER FOR RENEWABLE ENERGY AND POWER QUALITY			
			Dumnic	Boris	University of Novi Sad, Faculty of Technical Sciences	Serbia
17:15h		IND.1-2	IEEE CHAPTER DEVELOPMENT OPPORTUNITIES			
			Katić	Vladimir A.	University of Novi Sad, Faculty of Technical Sciences	Serbia
					IEEE PELS Regional Chair	
18:00h - 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			
09:15h	SESSION -T6.1		POWER QUALITY		Central builidng UNS-AMPHITHEATER	
		Chair:	Predrag Petrović, University of Kragujevac, Faculty of Technical Sciences, Cacak, Serbia			
		Co-chair:	Jovan Radaković, Distribution System Operator, Branch Subotica, Serbia			
09:15h	00819	T6.1-1	Power Harmonics Estimation Based on Analytical Signal Concept			
			Petrovic	Predrag	University of Kragujevac, Faculty of Technical Sciences, Cacak	Serbia
09:30h	01319	T6.1-2	A Notch Filter based Active Damping of LLCL Filter in Shunt Active Power Filter			
			Büyük	Mehmet	Çukurova University, Electrical and Electronics Engineering	Turkey
			Tan	Adnan	Çukurova University, Electrical and Electronics Engineering	Turkey
			İnci	Mustafa	Çukurova University, Electrical and Electronics Engineering	Turkey
			Tümay	Mehmet	Çukurova University, Electrical and Electronics Engineering	Turkey
09:45h	04919	T6.1-3	POWER QUALITY DATA LOGGER WITH INTERNET ACCESS			
			Mitrović	Vladimir	The School of Electrical and Computer Engineering of Applied Studies	Serbia
			Mijalković	Milan	The School of Electrical and Computer Engineering of Applied Studies	Serbia
10:00h	06319	T6.1-4	Overview of voltage dips detection analysis methods			
			Stanisavljević	Aleksandar M.	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Katić	Vladimir A.	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Dumnić	Boris P.	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Popadić	Bane P.	University of Novi Sad, Faculty of Technical Sciences	Serbia
10:15h	07319	T6.1-5	Power Factor Correction of Electric Arc Furnace Using Active and Passive Compensation			
			Laketić	Nikola	Avalon Partners d.o.o.	Serbia
			Radaković	Jovan	Operator Distributivnog Sistema, Ogranak Subotica	Serbia
			Majtal	Zoltan	Termovent SC Livnica Čelika AD	Serbia
09:30h	SESSION -T7.1		RENEWABLE AND DISTRIBUTED ENERGY SOURCES		Central builidng UNS-HALL 1	
		Chair:	Dražen Dujić, Ecole Polytechnique Federale de Lausanne, Power Electronics Laboratory, Lausanne, Switzerland			
		Co-chair:	Đorđe Stojić, Electrical Engineering Institute “Nikola Tesla”, University of Belgrade, Belgrade, Serbia			
09:30h	02719	T7.1-1	Stabilizing the VSI response in microgrids via novel PI controllers			
			Papageorgiou	Panos	University of Patras, Department of Electrical and Computer Engineering	Greece
			Alexandridis	Antonio	University of Patras, Department of Electrical and Computer Engineering	Greece
09:45h	07519	T7.1-2	Future of High Power PV Plants – 1500V inverters			
			Čorba	Zoltan	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Popadić	Bane	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Katić	Vladimir	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Dumnić	Boris	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Milićević	Dragan	University of Novi Sad, Faculty of Technical Sciences	Serbia
10:00h	06419	T7.1-3	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, Department of Electrical and Computer Engineering	Greece
10:15h	06519	T7.1-4	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		Central builidng UNS-AMPHITHEATER	
		Chair:	Prof. Dragan Maksimović, University of Colorado, ECEE Department, Boulder, CO, USA			
		Co-chair:	Dr. Jasna Dragosavac, Electrical Engineering Institute “Nikola Tesla”, University of Belgrade, Belgrade, Serbia			
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		Central builidng UNS-AMPHITHEATER	
		Chair:	Prof. Frede Blaabjerg, Aalborg University, Department of Energy Technology, Aalborg, Denmark			
		Co-chair:	Prof. Vladimir Katić, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
11:30h	04119	IP1-1	Future of Electric Vehicle Charging			
			Chandra Mouli	Gautham Ram	Delft University of Technology, Dept. of Electrical Sustainable Energy	Netherlands
			Venugopal	Prasanth	Delft University of Technology, Dept. of Electrical Sustainable Energy	Netherlands
			Bauer	Pavol	Delft University of Technology, Dept. of Electrical Sustainable Energy	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		Central builidng UNS-AMPHITHEATER	
		Chair:	Victor Stefanovic, V-S Drives Consulting, Afton, Virginia, USA			
		Co-chair:	Prof. Ion Boldea, Politechnica of Timisoara, Timisoara, Romania			
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		Central builidng UNS-AMPHITHEATER	
		Chair:	Jovan Knezevic, BMW Group, Munich, Germany			
		Co-chair:	Marko Vekic, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
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	06119	T2.1-2	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

	SESSION -T2.1		AUTOMOTIVE AND INDUSTRIAL DRIVES		Central builidng UNS-AMPHITHEATER	
		Chair:	Jovan Knezevic, BMW Group, Munich, Germany			
		Co-chair:	Marko Vekic, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
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)	Italy
			Ruggeri	Enrico	University of Rome, Dept. of Astronautical, Electrical and Energy Engineering (DAEEE)	Italy
			Rafiei	Mohamed	University of Rome, Dept. of Astronautical, Electrical and Energy Engineering (DAEEE)	Italy
			Zito	Damiano	University of Rome, Dept. of Astronautical, Electrical and Energy Engineering (DAEEE)	Italy
			Santini	Ezio	University of Rome, Dept. of Astronautical, Electrical and Energy Engineering (DAEEE)	Italy
			Mazzuca	Teresa	Italian Ministry of Defense	Italy
			Lipardi	Gennaro	2nd Rep./Ship System- 4th Div./Propulsion and Energy, NAVARM, Italian Navy	Italy
17:00h	04019	T2.1-4	Achieving Maximum Torque for Switched Reluctance Motor Drive over its Entire Speed Range			
			Anuchin	Alecksey	Moscow Power Engineering Institute, Department of Electric Drives	Russian Federation
			Lashkevich	Maxim	Moscow Power Engineering Institute, Department of Electric Drives	Russian Federation
			Aliamkin	Dmitry	Moscow Power Engineering Institute, Department of Electric Drives	Russian Federation
			Briz	Fernando	University of Oviedo, Dep. of Electrical, Electronic, Computers and Systems Engineering	Spain
17:15h	02819	T2.1-5	Resistance Dissymmetry Localization Method based on Vector Space Decomposition Approach for Six-phase Induction Machines			
			Rios Garcia	Natalia	University of Malaga	Spain
			Gonzalez Prieto	Ignacio	University of Malaga	Spain
			Duran Martinez	Mario J.	University of Malaga	Spain
			Barrero Garcia	Federico	University of Seville	Spain
16:15h	SESSION T4.2		CONTROL AND MESUREMENT IN POWER ELECTRONICS		Central builidng UNS-HALL 1	
		Chair:	Goce Arsov, University St. Kiril and Metodij, Skopje, Makedonia			
		Co-chair:	Vladimir Vukić, Electrical Engineering Institute “Nikola Tesla”, University of Belgrade, Belgrade, Serbia			
16:15h	03819	T4.2-1	Optimized Method for Speed Estimation Using Incremental Encoder			
			Anuchin	Alecksey	Moscow Power Engineering Institute, Department of Electric Drives	Russian Federation
			Astakhova	Valentina	Moscow Power Engineering Institute, Department of Electric Drives	Russian Federation
			Shpak	Dmitry	Moscow Power Engineering Institute, Department of Electric Drives	Russian Federation
			Zharkov	Alexandr	Moscow Power Engineering Institute, Department of Electric Drives	Russian Federation
			Briz	Fernando	University of Oviedo, Dep. of Electrical, Electronic, Computers and Systems Engineering	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, Department of Energy Technology	Denmark
			Vasquez	Juan C.	Aalborg University, Department of Energy Technology	Denmark
			Guerrero	Josep M.	Aalborg University, Department of Energy Technology	Denmark
			Freijedo	Francisco D.	Ecole Polytechnique Federale de Lausanne, Power Electronics Laboratory	Switzerland
17:00h	05819	T4.2-4	Fast and Efficient Placement of Fault Indicators Based on the Pattern Search Algorithm			
			Zeljković	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
16:30h -	SESSION IND.2		INDUSTRY SESSION		Central builidng UNS-ENTRANCE REAR HALL	
18:00h		Chair:	Stevan Grabic, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
		Co-chair:	Zoran Ivanovic, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
		IND.2-1	POWER ELECTRONICS SYSTEMS EMULATION USING TYPHOON HIL			
			Zuber	Dragan	Typhoon HIL Novi Sad	Serbia
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		Central builidng UNS-AMPHITHEATER	
		Chair:	Jan Mayer, Technical University, Dresden, Germany			
		Co-chair:	Veran Vasic, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
10:00h		KN3-1	MVDC - TECHNOLOGIES AND SYSTEMS			
			Dujic	Drazen	Ecole Polytechnique Federale de Lausanne, Power Electronics Laboratory	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		Central builidng UNS-AMPHITHEATER	
		Chair:	Boris Dumnic, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
		Co-chair:	Zoran Ivanovic, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
11:30h	06819	T7.2-1	Computer-Aided Model Parameter Extraction of Photovoltaic Modules using SPICE			
			Gadjeva	Elissaveta	Technical University of Sofia, Department of Electronics	Bulgaria
			Hristov	Marin	Technical University of Sofia, Department of Microelectronics	Bulgaria
11:45h	03419	T7.2-2	Application of Mobile Solar OFF-grid Generator in Irrigation System - Case Study			
			Majstorović	Milovan R.	University of Belgrade, School of Electrical Engineering	Serbia
			Despotović	Željko	University of Belgrade, Mihajlo Pupin Institute	Serbia
			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	Serbia
			Katić	Vladimir	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Milićević	Dragan	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Dumnić	Boris	University of Novi Sad, Faculty of Technical Sciences	Serbia
			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	Serbia
			Vukajlovic	Nikola	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Vujkov	Barbara	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Adzic	Evgenije	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Popadic	Bane	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Milicevic	Dragan	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Katic	Vladimir	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Corba	Zoltan	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Jerkan	Dejan	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Dragic	Mile	Sigma Energy d. o. o.	Slovenia
			Hofman	Milan	University of Belgrade, Faculty of Mechanical Engineering	Serbia

11:30h	SESSION T4.3		CONTROL AND MESUREMENT IN POWER ELECTRONICS		Central builidng UNS-HALL 1	
		Chair:	Žarko Janda, Electrical Engineering Institute “Nikola Tesla”, University of Belgrade, Belgrade, Serbia			
		Co-chair:	Vlado Porobic, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
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, Dep. of Microelectronic Technolog.	Serbia
11:45h	07919	T4.3-2	Three channels device for current transformers accuracy testing			
			Naumovic Vukovic	Dragana	University of Belgrade, Electrical Engineering Institute Nikola Tesla	Serbia
			Skundric	Slobodan	University of Belgrade, Electrical Engineering Institute Nikola Tesla	Serbia
			Zigic	Aleksandar	University of Belgrade, 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, School of Electrical Engineering	Israel
			Weiss	George	Tel Aviv University, School of Electrical Engineering	Israel
12:15h	08119	T4.3-4	Control of Rotary Exciter with Series and Separetly 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		Central Building UNS-AMPHITHEATER	
09:00 - 16:00h			Typhoon HIL Workshop		FTS - Hall Kula III Floor	
13:00 - 15:00h			Hard&Soft Student Competition – FINALE		Central builidng UNS-AMPHITHEATER	

XIX Savetovanje Energetska elektronika - Ee 2017

Mesto: Univerzitet u Novom Sadu - Centralna zgrada, Novi Sad

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Preliminarni Program / Preliminary Program

Updated: Oct. 08, 2017

Sreda, 18 Okt. 2017.

	DOGAĐAJI PRE POČETKA KONFERENCIJE	
09:00 - 17:00h	Registracija Tutorijali // HARD & SOFT Studentsko takmičenje (Pripreme)	
09:30 - 10:00h	OTVARANJE - Tutorijali // HARD & SOFT Studentsko takmičenje	
10:00 - 13:30h	Tutorijal 2 // Tutorijal 4 (Osveženje u sali)	
13:30 - 14:00h	RUČAK	
14:30 - 18:00h	Tutorijal 1 // Tutorijal 3 (Osveženje u sali)	
18:30 - 20:30h	ZABAVA SA PIVOM (NS Craft Beers)	
	KONFERENCIJA	

Četvrtak, 19 Okt. 2017.

09:00 - 18:00h		HARD & SOFT Studentsko takmičenje (Pripreme)	FTN-Čitaonica
10:00 - 17:00h		REGISTRACIJA	
12:00h		PRIJEM UČESNIKA I GOSTIJU	
12:30h	PLENARY Session	OTVARANJE	Centralna zgrada UNS-AMFITEATAR
	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:	Prof. Dušan Boroyevich, Virginia Tech, Blacksburg, USA	
		- Opening - Music - Greetings	
	DALJE PO PROGRAMU ZA 19th INTERNATIONAL SYMPOSIUM on POWER ELECTRONICS		
13:30h - 14:15h		RUČAK	
	DALJE PO PROGRAMU ZA 19th INTERNATIONAL SYMPOSIUM on POWER ELECTRONICS		
18:30h - 20:30h		KOKTEL DOBRODOŠLICE	

Petak, 20 Okt. 2017.

09:00 - 18:00h	HARD & SOFT Studentsko takmičenje (Pripreme)	FTN-Čitaonica
09:00 - 17:00h	REGISTRACIJA	
	DALJE PO PROGRAMU ZA 19th INTERNATIONAL SYMPOSIUM on POWER ELECTRONICS	
19:30h	SVEČANA VEČERA	

Subota, 21 Okt. 2017.

08:00 - 12:00h	HARD & SOFT Studentsko takmičenje (Pripreme)	FTN-Čitaonica
08:00 - 12:00h	REGISTRACIJA	

	Id rada	Tema	Naslov rada i Autori			Država
08:00h	SESIJA - S1		ENERGETSKA ELEKTRONIKA, POGONI I OBNOVLJIVI IZVORI		Centralna zgrada UNS-AMFITEATAR	
		Predsed.:	Goce Arsov, Univerzitet Sv. Kiril i Metodij, Skoplje, Makedonija			
		Ko-Predsed.:	Veran Vasić, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad, Srbija			
08:00h	00621	S1-1	PRIMENA AUTOMATSKOG GENERISANJA KODA ZA KONTROLU PRETVARAČA POVEZANOG NA MREŽU			
			Isakov	Ivana	Univerzitet u Novom Sadu, Fakultet tehničkih nauka	Srbija
			Grabić	Stevan	Univerzitet u Novom Sadu, Fakultet tehničkih nauka	Srbija
			Todorović	Ivan	Univerzitet u Novom Sadu, Fakultet tehničkih nauka	Srbija
			Janković	Njegoš	Univerzitet u Novom Sadu, Fakultet tehničkih nauka	Srbija
08:15h	00721	S1-2	SISTEMI ZA KONVERZIJU ENERGIJE MORSKIH TALASA U ELEKTRIČNU I ISTRAŽIVAČKE AKTIVNOSTI NA FTN-u			
			Vujkov	Barbara	Univerzitet u Novom Sadu, Fakultet tehničkih nauka	Srbija
			Dumnić	Boris	Univerzitet u Novom Sadu, Fakultet tehničkih nauka	Srbija
			Popadić	Bane	Univerzitet u Novom Sadu, Fakultet tehničkih nauka	Srbija
			Milićević	Dragan	Univerzitet u Novom Sadu, Fakultet tehničkih nauka	Srbija
			Katić	Vladmir	Univerzitet u Novom Sadu, Fakultet tehničkih nauka	Srbija
08:30h	00221	S1-3	NOVI TRENDOVI U IZGRADNJI FN ELEKTRANA VELIKIH SNAGA			
			Čorba	Zoltan	Univerzitet u Novom Sadu, Fakultet tehničkih nauka	Srbija
			Katić	Vladimir	Univerzitet u Novom Sadu, Fakultet tehničkih nauka	Srbija
			Dumnić	Boris	Univerzitet u Novom Sadu, Fakultet tehničkih nauka	Srbija
			Milićević	Dragan	Univerzitet u Novom Sadu, Fakultet tehničkih nauka	Srbija
			Popadić	Bane	Univerzitet u Novom Sadu, Fakultet tehničkih nauka	Srbija
08:45h	01121	S1-4	MODELOVANJE NAPONSKO-REAKTIVNIH KARAKTERISTIKA ELEKTROENERGETSKE MREŽE ZA POTREBE TESTIRANJA I UPRAVLJANJA U REALNOM VREMENU			
			Dragosavac	Jasna	Univerzitet u Beogradu, Elektrotehnički institut Nikola Tesla	Srbija
			Janda	Žarko	Univerzitet u Beogradu, Elektrotehnički institut Nikola Tesla	Srbija
09:00h	00321	S1-5	PRIMENA LABORATORIJSKOG SIMULATORA OPTEREĆENJA ZA ANALIZU RADA POGONA HORIZONTALNOG KRETANJA KRANA			
			Utvić	Milan	Univerzitet u Beogradu, Elektrotehnički fakultet	Srbija
			Bebić	Milan	Univerzitet u Beogradu, Elektrotehnički fakultet	Srbija
			Jeftenić	Borislav	EMP Inženjering 2016 d.o.o.	Srbija
09:15h	00421	S1-6	CONTROLLING THE ĆUK CONVERTER USING PIECEWISE LINEAR LYAPUNOV FUNCTIONS			
			Lekić	Aleksandra	University of Belgrade, School of Electrical Engineering	Srbija
			Stipanović	Dušan	Coordinated Science Laboratory, University of Illinois at Urbana-Champaign	SAD
			Petrović	Nikola	University of Belgrade, School of Electrical Engineering	Srbija
09:30h	00521	S1-7	PRAKTIČNA REALIZACIJA 10KW HIBRIDNE FOTONAPONSKE ELEKTRANE			
			Tošković	Vladimir	Univerzitet Donja Gorica, Fakultet za informacione sisteme i tehnologije	Crna Gora
			Popović	Tomo	Univerzitet Donja Gorica, Fakultet za informacione sisteme i tehnologije	Crna Gora
09:45h	01021	S1-8	IEEE I ULOGA ISTRAŽIVAČA SA NAŠIH PROSTORA U NJEGOVOM RAZVOJU			
			Arsov	Goce	Univerzitet Sv. Kiril i Metodij, Fakultet za Elektrotehniku i IT	Makedonija
			Katić	Vladimir	Univerzitet u Novom Sadu, Fakultet tehničkih nauka	Srbija

DALJE PO PROGRAMU ZA 19th INTERNATIONAL SYMPOSIUM on POWER ELECTRONICS

12:30h	ZATVARANJE SKUPA	
12:30 - 13:00h	GODIŠNJA SKUPŠTINA DRUŠTVA ZA ENERGETSKU ELEKTRONIKU	
	Prof. Katić Vladimir	Predsednik Društva za energetsku elektroniku, Novi Sad
13:00 - 15:00h	HARD & SOFT STUDENTSKO TAKMIČENJE - FINALNE PREZENTACIJE	Centralna zgrada UNS-AMFITEATAR