



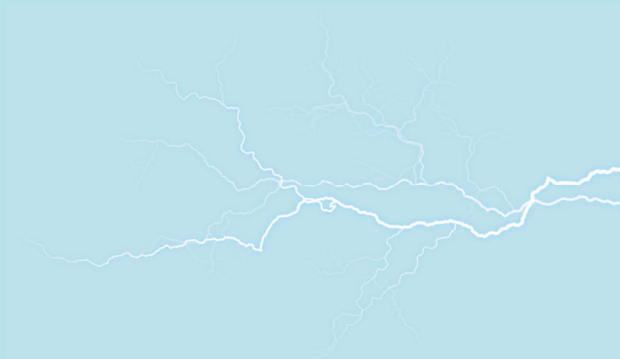
19th International Symposium on

Power Electronics Ee 2017

Novi Sad, Serbia
October 19th - 21th, 2017



program



Wednesday, 18_10_2017



Wednesday, 18 Oct. 2017.

PRE-CONFERENCE EVENTS	
09:00 - 17:00h	Tutorials Registration // HARD & SOFT Student Competition (Preliminaries) FTS - Ceremonial Hall
09:30 - 10:00h	OPENING - Tutorials // Hard&Soft Student Competition FTS - Ceremonial Hall
10:00 - 13:30h	Tutorial 2 // Tutorial 4 (Refreshment in hall) FTS-Kula, 3rd Floor, Room 301 // FTS-ITC, 3rd Floor Amphiteater
13:30 - 14:00h	LUNCH
14:30 - 18:00h	Tutorial 1 // Tutorial 3 (Refreshment in hall) FTS-Block F, 3rd Floor, Room 319 // FTS-Kula, 3rd Floor, Room 301
18:30 - 20:30h	BEER PARTY (NS Craft Beers)

Thursday, 19_10_2017

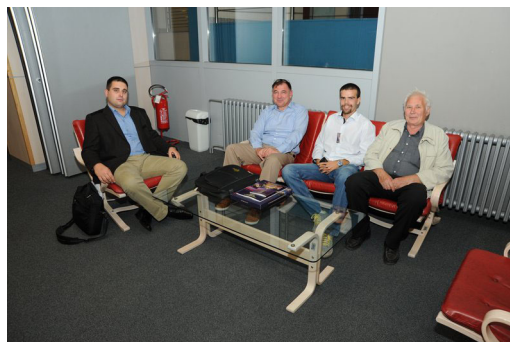
CONFERENCE						
Time	Paper Id	Session	Paper title / Authors:family name	Authors: name	Affiliation	State
Thursday, 19 Oct. 2017.						
09:00 - 18:00h	HARD & SOFT Student Competition (Preliminaries)		FTS-Reading Hall			
09:00 - 18:00h	REGISTRATION					
09:30h	PLENARY Session	OPENING CEREMONY	Central builidng 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 Milanović, 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 building 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 Natarajan Vivek	Tel Aviv University, School of Electrical Engineering Indian Institute of Technology Bombay, Systems and Control Engineering Group
14:30h	00619 T4.1-2	Optimal Fractional Order PID Controllers Design Based on Genetic Algorithm for Time Delay Systems	Nekoui Mohammad Ali Pakzad Mohammadali Pakzad Sara	University of Technology, Faculty of Electrical Engineering, K.N.Toosi Islamic Azad University, Department of Electrical Engineering, Science and Research Islamic Azad University, Departments of Electrical Engineering, South Tehran Branch
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 Nikolic Aleksandar Tarisciotti Luca Wheeler Pat	University of Talca, Faculty of Engineering University of Belgrade, Electrical Engineering Institute Nikola Tesla University of Nottingham, Dep. of Electrical and Electronic Engineering University of Nottingham, Dep. of Electrical and Electronic Engineering
15:00h	03019 T4.1-4	Conformal Mapping of Impedance Stability Models for System-Level Dynamics Assessments	Freijedo Francisco D. Javaid Uzair Dujic Drazen	Ecole Polytechnique Federale de Lausanne, Power Electronics Laboratory Ecole Polytechnique Federale de Lausanne, Power Electronics Laboratory Ecole Polytechnique Federale de Lausanne, Power Electronics Laboratory
15:15h	03119 T4.1-5	Unipolar Switched Bidirectional Bridgeless Power Factor Correction Boost Rectifier With Adaptive Dual Current Mode Control	Lale Srdan Šoja Milomir Lubura Slobodan	University of East Sarajevo, Faculty of Electrical Engineering University of East Sarajevo, Faculty of Electrical Engineering University of East Sarajevo, Faculty of Electrical Engineering
15:30h	03219 T4.1-6	Plug-and-play realization of the virtual infinite capacitor	Lin Jun Weiss George	Tel Aviv University, School of Electrical Engineering Tel Aviv University, School of Electrical Engineering
15:45h	03319 T4.1-7	Optimal scheduling of a household refrigerator using adaptive model predictive technique	Bálint Roland Hangos Katalin M. Magyar Attila	University of Pannonia, Faculty of Information Technology Hungarian Academy of Sciences, Institute for Computer Science and Control University of Pannonia, Faculty of Information Technology
16:00h	03719 T4.1-8	Experimental validation of a Non-linear Robust Controller for DC-DC boost converters	Markou Achilleas Palaogiannis Foivos Soldatos Argiris Hatziargyriou Nikos	National Technical Univ. of Athens (NTUA), School of Electrical and Computer Engin. National Technical Univ. of Athens (NTUA), School of Electrical and Computer Engin. National Technical Univ. of Athens (NTUA), School of Electrical and Computer Engin. National Technical Univ. of Athens (NTUA), School of Electrical and Computer Engin.
16:15 - 16:30h	REFRESHMENT BREAK			
16:30h	SESSION -T1.2	POWER CONVERTERS AND DEVICES	Central building UNS-AMPHITHEATER	
	Chair:	Goce Arsov, University St. Kiril and Metodij, FEIT, Skopje, Macedonia		
	Co-chair:	Petar Matic, University of Banja Luka, Faculty of Electrical Engineering, Bosmnia and Herzegovina		
16:30h	05119 T1.2-1	A New Hybrid Boost-L Converter	Pop-Călimanu Ioana-Monica Renken Folker Lascu Dan Lica Septimiu Gurbina Mircea	Politehnica University Timișoara, Department of Applied Electronics Jade University of Wilhelmshaven, Oldenburg, Elsfleth, Dep. of Engin., Autom. and PE Politehnica University Timișoara, Department of Applied Electronics Politehnica University Timișoara, Department of Applied Electronics Politehnica University Timișoara, Department of Applied Electronics
16:45h	05319 T1.2-2	Design consideration for high frequency LLC resonant converter with matrix transformer	Pajnić Milan Pejović Predrag Despotović Željko Lazić Miroslav Skender Miodrag	University of Belgrade, School of Electrical Engineering University of Belgrade, School of Electrical Engineering University of Belgrade, Mihajlo Pupin Institute Institute Iritel a.d. Institute Iritel a.d.
17:00h	05719 T1.2-3	Characterization and Gate Drive Design of High Voltage Cascode GaN HEMT	Pajnić Milan Pejović Predrag Despotović Željko Lazić Miroslav Skender Miodrag	University of Belgrade, School of Electrical Engineering University of Belgrade, School of Electrical Engineering University of Belgrade, Mihajlo Pupin Institute Institute Iritel a.d. Institute Iritel a.d.
17:15h	06019 T1.2-4	Reliability Of Power Supplies For Induction Heating Through An Analysis Of The States In Operating Modes	Prodanov Prodan Dankov Dobroslav	Technical University of Gabrovo, Department of Electronics Technical University of Gabrovo, Department of Electronics
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 Çamur Sabri Beşer Ersoy Arifoğlu Bırol	Kocaeli University, Department of Electrical Engineering Kocaeli University, Department of Electrical Engineering Kocaeli University, Department of Electrical Engineering Kocaeli University, Department of Electrical Engineering
16:30h	SESSION T3.1	ELECTRICAL MACHINES	Central building 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 Levi Emil Jones Martin	Ingeteam Power Technology S. A., Windpower R&D Department Liverpool John Moores University, Faculty of Engineering and Technology Liverpool John Moores University, Faculty of Engineering and Technology
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
17:00h	03619 T3.1-3	Rotor slot harmonics based induction machine speed estimation	Popadic Bane Vasic Veran Dumnic Boris Milicevic Dragan Vukajlovic Nikola	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
17:15h	05519 T3.1-4	Portable Rotational Electromagnetic Energy Harvester with a Maximum Energy Tracking Power Management System	Dinulovic Dragan Shousha Mahmoud Brooks Michael Haug Martin Petrovic Tomislav	Würth Elektronik eiSos GmbH Würth Elektronik eiSos GmbH / Cairo University, Faculty of Engineering Würth Elektronik eiSos GmbH Würth Elektronik eiSos GmbH University of Niš, Faculty of Mechanical Engineering
17:30h	05619 T3.1-5	Vector Space Decomposition Algorithm for Asymmetrical Multiphase Machines	Zoric Ivan Jones Martin Levi Emil	Liverpool John Moores University, Faculty of Engineering and Technology Liverpool John Moores University, Faculty of Engineering and Technology Liverpool John Moores University, Faculty of Engineering and Technology
17:45h	07119 T3.1-6	Convergence and stability analysis of IM rotor time constant estimators based on MRAS scheme	Popovic Vladimir Oros Djura Matic Petar Marcetic Darko	University of Novi Sad, Faculty of Technical Sciences University of Novi Sad, Faculty of Technical Sciences University of Banja Luka, Faculty of Electrical Engineering University of Novi Sad, Faculty of Technical Sciences
16:30h	SESSION IND.1	INDUSTRY SESSION	Central building 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
17:15h	IND.1-2	IEEE CHAPTER DEVELOPMENT OPPORTUNITIES	Katic Vladimir A.	University of Novi Sad, Faculty of Technical Sciences
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 building 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 Celika AD	Serbia
09:30h	SESSION -T7.1	RENEWABLE AND DISTRIBUTED ENERGY SOURCES	Central building UNS-HALL 1		
	Chair:	Dražen Dujčić, 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
			Milčević 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
			Grabčić 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 building UNS-AMPHITHEATER		
	Chair:	Jan Mayer, Technical University, Dresden, Germany			
	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 building 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 building UNS-AMPHITHEATER		
	Chair:	Victor Stefanovic, V-S Drives Consulting, Afton, Virginia, USA			
	Co-chair:	Prof. Ion Boldea, Politehnica 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 building UNS-AMPHITHEATER
	Chair:	Jovan Knezević, 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 Cedomir	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
16:45h	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 Aleksey	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 building 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 Aleksey	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
		Josep M. Guerrero	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	
		Zeljkočić Cedomir	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 building 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 building UNS-AMPHITHEATER	
	Chair:	Prof. Borislav Jeftenić, State University of Novi Pazar, Serbia		
	Co-chair:	Prof. 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 building 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 Elisaveta	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 building 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 Technol.	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 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			
09:00 - 16:00h	Typhoon HIL Workshop		FTS - Hall Kula III Floor	
13:00 - 15:00h	Hard&Soft Student Competition – FINALE		Central building UNS-AMPHITHEATER	



XIX Savetovanje Energetska elektronika - Ee 2017 Univerzitet u Novom Sadu - Centralna zgrada, Novi Sad

Sreda, 18 Okt. 2017.				
DOGADAJI PRE POČETKA KONFERENCIJE				
09:00 - 17:00h	Registracija Tutorijali // HARD & SOFT Studentsko takmičenje (Pripreme) Svečana sala FTN			
09:30 - 10:00h	OTVARANJE - Tutorijali // HARD & SOFT Studentsko takmičenje Svečana sala FTN			
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	SESUJA - S1	ENERGETSKA ELEKTRONIKA, POGONI I OBNOVLJIVI IZVORI		Centralna zgrada UNS-AMFITEATAR
		Predsed.: Goce Arsov, Univerzitet Sv. Kiril i Metodij, Skoplje, Makedonija		
		Ko-Predsed.: Pro 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 Vladimir	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 ČUK 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 NEGOVOM 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			

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