

21th International Symposium on Power Electronics - Ee2021
Virtual (Online)
Final Program / Finalni Program

Updated: Oct. 2, 2021

Wednesday, 27 Oct. 2021.**PRE-CONFERENCE EVENTS****09:00 - 09:50h REGISTRATION / TESTING**

09:50 - 10:00h		OPENING - Tutorials		MS Teams platform
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10:00 - 13:00h	TT-1:	Tutorial 1		MS Teams platform
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Huai Wang and Shuai Zhao
 Aalborg University, Aalborg, Denmark
 "AI-Assisted Condition and Health Monitoring in Power Electronics"

13:00h - 14:00h LUNCH BREAK

14:00 - 17:00h	TT-2:	Tutorial 2		MS Teams platform
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Miroslav Vasić, Luis Gomez Navajas, Javier Galindos Vicente
 Universidad Politecnica de Madrid Center for Industrial Electronics, Madrid, Spain
 "Design Challenges for high-performance GaN based converters in multi-MHz applications"

17:30h - 18:30h Testing session: Paper Video Presentations Upload and Testing**CONFERENCE**

Time	Paper Id	Session	Paper title / Authors:family name	Authors: name	Affiliation	State
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Thursday, 28 Oct. 2021.**09:00 - 09:50h REGISTRATION / TESTING & UPLOAD**

09:45h	PLENARY Session	OPENING CEREMONY		MS Teams platform
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Chair: Prof. Vladimir Katić, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia
Co-chair: Dr. Dragan Kovačević, University of Belgrade, Belgrade, Electrical Engineering Institute "Nikola Tesla", Serbia
Co-chair: Academician Prof. Sloboda Vukosavić, University of Belgrade/Serbian Academy of Sciences and Arts, Belgrade, Serbia

Opening speech, Prof. Vladimir Katić
 Welcom speech, Dr. Dragan Kovačević
 Welcom speech, Academician Prof. Slobodan Vukosavić
 Novi Sad - European Capital of Culture 2021 - short video
 Ee 2019 - short video
 About Ee 2021 - Prof. Vladimir Katić
 Official opening of the 21st Int. Symp. on Power Electronics, Prof. Srdjan Kolaković, Dean of the Faculty of Technical Sciences, Novi Sad, Serbia
 Official opening of the 21st Int. Symp. on Power Electronics, Prof. Dejan Madić, Rector of University of Novi Sad, Novi Sad, Serbia

10:00h	PLENARY Session - KN1	KEY-NOTE PAPERS		MS Teams platform
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Chair:
Co-chair:

10:00h	KN1.1	Power Semiconductor Devices - Development Trend and Application Challenges will Silicon be replaced by WB-Technologies?		
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Lorenz Leo ECPE/Infineon and the German Academy of Science, Nuremberg Germany

10:30h	KN1.2	Highly efficient and robust direct modular multilevel converters for grid-connected applications		
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Popović Jelena University of Twente, Twente Netherlands

11:00h	KN1.3	Highly efficient and robust direct modular multilevel converters for grid-connected applications		
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Vukosavić Slobodan University of Belgrade/Serbian Academy of Sciences and Arts, Belgrade Serbia

11:30 - 11:45h REFRESHMENT BREAK



11:45h PLENARY Session - IL1		INVITED LECTURES		MS Teams platform	
Chair:					
Co-chair:					
11:45h	IL1.1	Self-Designing Blocks: Turn your simulation software into a Pre-Design Tool			
		Meynard	Thierry	Université de Toulouse, Laboratoire LAPLACE, Toulouse	France
12:10h	IL1.2	PHIL – Power Hardware in the Loop for the real-time power emulation of electrical machines			
		Lidozzi	Alessandro	Roma Tre University, Rome	Italy
12:35h	IL1.3	On the True Value of Wide Bandgap Power Devices for Low and High Power Applications			
		Deboy	Gerald	Infineon Technologies Austria AG, Villach	Austria
13:00h - 14:00h LUNCH BREAK					
14:00h SESSION -T1.1		Modern Devices in Power Electronics		MS Teams platform	
Chair:					
Co-chair:					
14:00h	02634	T1.1-1	Minimization of Commutation Losses in LLC Resonant Converter with GaN HEMTs and Si based MOSFETs		
		Lukić	Emilija	University of Belgrade, School of Electrical Engineering, Belgrade	Serbia
		Čakarević	Jelena	University of Belgrade, School of Electrical Engineering, Belgrade	Serbia
		Milić	Aleksandar	University of Belgrade, School of Electrical Engineering, Belgrade	Serbia
14:15h	06634	T1.1-2	Analysis and Modeling of Temperature Dependence of I-V behavior in Silicon Carbide MOSFETs		
		Bavi	Danial	Macquarie University, Sydney	Australia
		Brooks	Britt	Wolfspeed, Durham (NC)	United States
		Khandelwal	Sourabh	Macquarie University, Sydney	Australia
14:30h	02234	T1.1-3	SiC MOSFET Junction Temperature Estimation based on Output Characteristics Integrated on Gate-driver		
		Mocevic	Slavko	Virginia Tech (VT), Center for Power Electronics Systems, Blacksburg	United States
		Mitrovic	Vladimir	Virginia Tech (VT), Center for Power Electronics Systems, Blacksburg	United States
		Wang	Jun	University of Nebraska–Lincoln, Lincoln	United States
		Burgos	Rolando	Virginia Tech (VT), Center for Power Electronics Systems, Blacksburg	United States
		Boroyevich	Dushan	Virginia Tech (VT), Center for Power Electronics Systems, Blacksburg	United States
14:45h	00734	T1.1-4	Test Bench Setup for characterization of GaN HEMT		
		Galindos	Javier	Universidad Politécnica de Madrid, Centro de Electrónica Ind., Madrid	Spain
		Serrano	Diego	Universidad Politécnica de Madrid, Centro de Electrónica Ind., Madrid	Spain
		Vasic	Miroslav	Universidad Politécnica de Madrid, Centro de Electrónica Ind., Madrid	Spain
15:00h	03434	T1.1-5	GaN And Superjunction MOSFET Transistor Switching In A Resonant Switched-Capacitor Converter		
		Folmer	Szymon	AGH University of Science and Technology, Krakow	Poland
		Stala	Robert	AGH University of Science and Technology, Krakow	Poland
15:15h	00634	T1.1-6	Analytical PFC Boost Inductor Power Loss Calculation Method in CCM		
		Szczerba	Piotr	Fideltronik Poland R&D Centre, Krakow	Poland
		Raczko	Waldemar	Fideltronik Poland R&D Centre, Krakow	Poland
		Ligenza	Slawomir	Fideltronik Poland R&D Centre, Krakow	Poland
		Worek	Cezary	AGH University of Science and Technology, Krakow	Poland
15:30h	01434	T1.1-7	Analytical Design Optimization of PFC Boost Inductor in CCM		
		Szczerba	Piotr	Fideltronik Poland R&D Centre, Krakow	Poland
		Raczko	Waldemar	Fideltronik Poland R&D Centre, Krakow	Poland
		Ligenza	Slawomir	Fideltronik Poland R&D Centre, Krakow	Poland
		Worek	Cezary	AGH University of Science and Technology, Krakow	Poland
15:45h	03734	T1.1-8	Modeling and simulation of power thyristors in power supply for induction heating with respect to their failure rates and reliability		
		Dankov	Dobroslav	Technical University of Gabrovo , Gabrovo	Bulgaria
		Prodanov	Prodan	Technical University of Gabrovo , Gabrovo	Bulgaria

14:00h	SESSION T4.1	Control of Modern Converters	MS Teams platform
Chair:			
Co-chair:			
14:00h	03634	T4.1-1	Minimum Deviation Controller for Indirect Energy Transfer Converters
		Josipovic	Ksenija University of Toronto, Toronto Canada
		Prodic	Aleksandar University of Toronto, Toronto Canada
		Lu	Liangji University of Toronto, Toronto Canada
		Roberts	Gianluca University of Toronto, Toronto Canada
		Calabrese	Giacomo Texas Instruments, Freising Germany
		Neveu	Florian Texas Instruments, Freising Germany
14:15h	01734	T4.1-2	Control Algorithms for Matrix Converters With Low Mathematical Complexity
		Igney	Jens University of Erlangen-Nuremberg, Inst. of Elec.Dr. and Mach., Erlangen Germany
		Hahn	Ingo University of Erlangen-Nuremberg, Inst. of Elec.Dr. and Mach., Erlangen Germany
14:30h	00934	T4.1-3	Algorithm and block diagram of an electronic system for control of energy flows in residential premises
		Stoiev	Iordan University of Ruse "Angel Kanchev", Ruse Bulgaria
		Zaharieva	Snezhinka University of Ruse "Angel Kanchev", Ruse Bulgaria
		Borodzhieva	Adriana University of Ruse "Angel Kanchev", Ruse Bulgaria
		Petrova	Teodora Trakia University, Stara Zagora Bulgaria
14:45h	01934	T4.1-4	Half-Bridge Voltage Source Inverter Control Development Using HIL System
		Brandis	Andrej University of Osijek, Fac. of Elec.Eng., Comp.Sc. and Infor.Tech., Osijek Croatia
		Pelin	Denis University of Osijek, Fac. of Elec.Eng., Comp.Sc. and Infor.Tech., Osijek Croatia
		Topić	Danijel University of Osijek, Fac. of Elec.Eng., Comp.Sc. and Infor.Tech., Osijek Croatia
		Knežević	Goran University of Osijek, Fac. of Elec.Eng., Comp.Sc. and Infor.Tech., Osijek Croatia
15:00h	02534	T4.1-5	Influence of system delay on current controller stability and performance at grid-side inverter with LCL filter
		Stojanović	Lazar University of Belgrade, School of Electrical Engineering, Belgrade Serbia
		Bakić	Filip University of Belgrade, School of Electrical Engineering, Belgrade Serbia
		Milić	Aleksandar University of Belgrade, School of Electrical Engineering, Belgrade Serbia
15:15h	02834	T4.1-6	Analysis and DSP Implementation of Multi-sampled Three-Phase Current Controllers
		Petric	Ivan University of Padova, Padova Italy
		Cvetanovic	Ruzica University of Belgrade, School of Electrical Engineering, Belgrade Serbia
		Mattavelli	Paolo University of Padova, Padova Italy
		Buso	Simone University of Padova, Padova Italy
		Vukosavic	Slobodan University of Belgrade, School of Electrical Engineering, Belgrade Serbia
15:30h	00834	T4.1-7	Automatic System for Saving Cooking Gas
		Ciufudean	Calin Stefan cel Mare University, Suceava Romania
		Buzduga	Cornelii Stefan cel Mare University, Suceava Romania
16:00 - 16:15h	REFRESHMENT BREAK		

16:15h SESSION T7.1		Renewable Energy Sources and Grids	MS Teams platform
Chair:			
Co-chair:			
16:15h	01634	T7.1-1	Multi-Level, Partial Power Processing and WBG Devices - Future of 1500-V Photovoltaic Systems
		Stevanovic	Branislav
		Alou	Pedro
		Vasic	Miroslav
			Universidad Politécnica de Madrid, Centro de Electrónica Ind., Madrid
			Universidad Politécnica de Madrid, Centro de Electrónica Ind., Madrid
			Universidad Politécnica de Madrid, Centro de Electrónica Ind., Madrid
			Spain
			Spain
			Spain
16:30h	03034	T7.1-2	Probabilistic load flow calculation using Halton quasi-random numbers in modern power systems with wind and solar generation
		Mišurović	Filip
		Mujović	Saša
			University of Montenegro, Faculty of Electrical Engineering, Podgorica
			University of Montenegro, Faculty of Electrical Engineering, Podgorica
			Montenegro
			Montenegro
16:45h	03834	T7.1-3	Siting and Sizing of Renewable Energy Sources: A Case Study on Montenegro
		Šćekić	Lazar
		Kontić	Mičo
		Srdanović	Neda
			University of Montenegro, Faculty of Electrical Engineering, Podgorica
			Crnogorski elektroprenosni sistem, National dispat. center, Podgorica
			Crnogorski elektroprenosni sistem, National dispat. center, Podgorica
			Montenegro
			Montenegro
			Montenegro
17:00h	04934	T7.1-4	An Improved Direct Voltage Component Extraction Method for Grid Connected Converters
		Cvetanovic	Ruzica
		Janda	Zarko
			University of Belgrade, School of Electrical Engineering, Belgrade
			University of Belgrade, Electrical Eng. Institute Nikola Tesla, Belgrade
			Serbia
			Serbia
17:15h	05434	T7.1-5	GIS for Public Lighting Installations
		Špica	Sanja
		Čeliković	Milan
		Popov	Srđan
			University of Novi Sad, Faculty of Technical Sciences, Novi Sad
			University of Novi Sad, Faculty of Technical Sciences, Novi Sad
			University of Novi Sad, Faculty of Technical Sciences, Novi Sad
			Serbia
			Serbia
			Serbia
18:15h	Social Activities (Virtual Welcome Party)		

Friday, 29 Oct. 2021.

08:00 - 09:00h		REGISTRATION / TESTING & UPLOAD			
09:00h		SESSION -T2.1	Automotive and Industrial Drives	MS Teams platform	
		Chair:			
		Co-chair:			
09:00h	05934	T2.1-1	Analysis of power distribution systems based on low-voltage DC/DC power supplies for automated guided vehicles (AGV)		
			Hanschek	Andreas J.	University of Innsbruck, Innsbruck Power Elect.Lab. (i-PEL), Innsbruck Austria
			Bouvier	Yann E.	University of Innsbruck, Innsbruck Power Elect.Lab. (i-PEL), Innsbruck Austria
			Jesacher	Erwin	University of Innsbruck, Innsbruck Power Elect.Lab. (i-PEL), Innsbruck Austria
			Grbović	Petar J.	University of Innsbruck, Innsbruck Power Elect.Lab. (i-PEL), Innsbruck Austria
09:15h	02334	T2.1-2	Analysis of Non-Regenerative Resistive Dynamic Braking Behavior of PMSM		
			Ekim	Melih Nafi	Akim Metal A.Ş., Istanbul Turkey
			Unal	Alpay Oguz	Akim Metal A.Ş., Istanbul Turkey
			Yildiz	Ali Bekir	Kocaeli University, Kocaeli Turkey
09:30h	02934	T2.1-3	Matlab/Simulink Based Energy Consumption Prediction of Electric Vehicles		
			Janković	Filip	University of Montenegro, Faculty of Electrical Engineering, Podgorica Montenegro
			Šćekić	Lazar	University of Montenegro, Faculty of Electrical Engineering, Podgorica Montenegro
			Mujović	Saša	University of Montenegro, Faculty of Electrical Engineering, Podgorica Montenegro
09:45h	07934	T2.1-4	Modelling of three-phase interleaved DC-DC converter for hybrid energy storage application in electric vehicles		
			Vukajlovic	Nikola	University of Novi Sad, Faculty of Technical Sciences, Novi Sad Serbia
			Popadic	Bane	University of Novi Sad, Faculty of Technical Sciences, Novi Sad Serbia
			Milicevic	Dragan	University of Novi Sad, Faculty of Technical Sciences, Novi Sad Serbia
			Dumnic	Boris	University of Novi Sad, Faculty of Technical Sciences, Novi Sad Serbia
			Mitrovic	Zoran	University of Novi Sad, Faculty of Technical Sciences, Novi Sad Serbia
10:00h	02034	T2.1-5	Extended SVM for direct matrix converter based drive operating under unbalanced grid conditions		
			Stanić	Luka	University of Belgrade, School of Electrical Engineering, Belgrade Serbia
			Ristić	Leposava	University of Belgrade, School of Electrical Engineering, Belgrade Serbia
			Bebić	Milan	University of Belgrade, School of Electrical Engineering, Belgrade Serbia
			Rivera	Marco	University of Talca, Department of Electrical Engineering, Talca Chile
10:15h	04734	T2.1-6	Revitalization and Modernization of Dragline Excavators with Limited Budget		
			Bebić	Milan	University of Belgrade, School of Electrical Engineering, Belgrade Serbia
			Rašić	Neša	University of Belgrade, School of Electrical Engineering, Belgrade Serbia
			Vojvodić	Nikola	University of Belgrade, School of Electrical Engineering, Belgrade Serbia
			Jeftenić	Borislav	EMP Inženjering 2016, Belgrade Serbia

10:45h PLENARY Session - KN2		KEY-NOTE PAPERS		MS Teams platform	
Chair:					
Co-chair:					
10:45h	KN2.1	"Transformers" for Artificial Intelligence			
		Kisačanin	Branislav	Nvidia Corp., Santa Clara, USA/Centre for AI, Novi Sad	USA / Serbia
11:15h	KN2.2	AI Applications for Power Electronics – Challenges and Opportunities			
		Wang	Huai	Aalborg University, Aalborg	Denmark
11:45h PLENARY Session - IP1		INVITED LECTURES		MS Teams platform	
Chair:					
Co-chair:					
11:45h	07234	IP1.1	Blockchain-based Smart Decentralized Energy Trading for Grids with Renewable Energy Systems		
		Gajić	Dušan	University of Novi Sad, Faculty of Technical Sciences, Novi Sad	Serbia
		Petrović	Veljko	University of Novi Sad, Faculty of Technical Sciences, Novi Sad	Serbia
		Horvat	Nebojša	University of Novi Sad, Faculty of Technical Sciences, Novi Sad	Serbia
		Dragan	Dinu	University of Novi Sad, Faculty of Technical Sciences, Novi Sad	Serbia
		Stanisavljević	Aleksandar	University of Novi Sad, Faculty of Technical Sciences, Novi Sad	Serbia
		Katić	Vladimir	University of Novi Sad, Faculty of Technical Sciences, Novi Sad	Serbia
12:10h	06534	IP1.2	Advancements on Real-Time Simulation for High Switching Frequency Power Electronics Applications		
		Osório	Caio	Typhoon Hil, Inc., Novi Sad	Serbia
		Miletic	Milos	Typhoon Hil, Inc., Novi Sad	Serbia
		Zelic	Jovan	Typhoon Hil, Inc., Novi Sad	Serbia
		Majstorovic	Dusan	Typhoon Hil, Inc., Novi Sad	Serbia
		Gagrica	Ognjen	Typhoon Hil, Inc., Novi Sad	Serbia
12:35h	06434	IP1.3	HIL-based certification for converter controllers: Advantages, challenges and outlooks		
		Magnago	Henrique	Typhoon Hil, Inc., Novi Sad	Serbia
		Horst Figueira	Henrique	Typhoon Hil, Inc., Novi Sad	Serbia
		Gagrica	Ognjen	Typhoon Hil, Inc., Novi Sad	Serbia
		Majstorovic	Dusan	Typhoon Hil, Inc., Novi Sad	Serbia
13:00h - 14:00h		LUNCH BREAK			
14:00h		INDUSTRY SESS. - IS-1 Special Session - Industry Session		MS Teams platform	
Chair:					
Co-chair:					
14:00h	14:30h	IS-1.1	Typhoon HIL Presentation	 Typhoon HIL	
14:30h	15:00	IS-1.2:	Brose Presentation		
15:45 - 16:00h		REFRESHMENT BREAK			

16:00h	SESSION - T3.1	Electric Machines	MS Teams platform
Chair:			
Co-chair:			
16:00h	01134	T3.1-1	Non-linear Observer Based Stator Inter-turn Short-circuit Fault Detection in 3-Φ Induction Motor
		Duvvuri	SSSR Sarathbabu
		S M	Padmaja
			Shri Vishnu Engineering College for Women, Bhimavaram
			Shri Vishnu Engineering College for Women, Bhimavaram
			India
			India
16:15h	05234	T3.1-2	FCS-MPC of a DMC-fed Induction Machine with Unity Input Power Factor Using Rotating Vectors
		Mekhilef	Aymen Abdelmounaim
		Benachour	Ali
		Dali	Ali
		Berkouk	El Madjid
			Ecole Nationale Polytechnique, Algeria
			Ecole Supérieure des Sciences Appliquées d'Alger, Algeria
			Centre de Développement des Energies Renouvelables, Algeria
			Ecole Nationale Polytechnique, Algeria
			Algeria
			Algeria
			Algeria
			Algeria
16:30h	02434	T3.1-3	Design Procedure for High-Frequency Transformer in LLC Resonant Topology
		Obradović	Katarina
		Plavšić	Jovana
		Milić	Aleksandar
			University of Belgrade, School of Electrical Engineering, Belgrade
			University of Belgrade, School of Electrical Engineering, Belgrade
			University of Belgrade, School of Electrical Engineering, Belgrade
			Serbia
			Serbia
			Serbia
			Serbia
16:45h	03934	T3.1-4	Influence of phase coupling on the performance of 8/6 SRM
		Mihic	Dragan
		Brkovic	Bogdan
		Terzic	Mladen
		Koprivica	Zarko
			University of Belgrade, School of Electrical Engineering, Belgrade
			University of Belgrade, School of Electrical Engineering, Belgrade
			University of Belgrade, School of Electrical Engineering, Belgrade
			Serbia
			Serbia
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			Serbia
			Serbia
17:00h	06134	T3.1-5	Inductance Identification of the Surface Permanent Magnet Synchronous Machines with sinusoidal voltage test signals
		Vučković	Mladen
		Dumnić	Boris
		Vasić	Veran
		Vujkov	Barbara
		Popović	Vladimir
			University of Novi Sad, Faculty of Technical Sciences, Novi Sad
			University of Novi Sad, Faculty of Technical Sciences, Novi Sad
			University of Novi Sad, Faculty of Technical Sciences, Novi Sad
			University of Novi Sad, Faculty of Technical Sciences, Novi Sad
			University of Novi Sad, Faculty of Technical Sciences, Novi Sad
			Serbia
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			Serbia
17:15h	01234	T3.1-6	Minimization of an Electromagnetic Torque Ripple of a Five-Phase IM Operated under One-Phase Fault
		Zaskalicky	Pavel
			Technical University of Košice, Kosice
			Slovakia

16:00h	SESSION T4.2	Control and Measurement in Power Electronics	MS Teams platform
Chair:			
Co-chair:			
16:00h	00334	T4.2-1	Predictive Control of an Induction Machine Fed by a Voltage Source Inverter
		Rivera	Marco
		Riveros	José
		Wheeler	Patrick
		Ristic	Leposava
		Mirzaeva	Galina
		Zanchetta	Pericle
			University of Talca, Department of Electrical Engineering, Talca
			Universidad Nacional de Asunción, Asuncion
			The University of Nottingham, Nottingham
			University of Belgrade, School of Electrical Engineering, Belgrade
			The University of Newcastle, Newcastle
			The University of Nottingham, Nottingham
			Chile
			Paraguay
			United Kingdom
			Serbia
			Australia
			United Kingdom
16:15h	00434	T4.2-2	The Selection of Cost Functions in Model Predictive Control Applications
		Rivera	Marco
		Rojas	Diego
		Wheeler	Patrick
			University of Talca, Department of Electrical Engineering, Talca
			University of Talca, Department of Electrical Engineering, Talca
			The University of Nottingham, Nottingham
			Chile
			Chile
			United Kingdom
16:30h	07534	T4.2-3	Improvement of PMSM Control Using Reinforcement Learning Deep Deterministic Policy Gradient Agent
		Nicola	Marcel
		Nicola	Claudiu-Ionel
			National Institute for Research, ICMET Craiova, Craiova
			National Institute for Research, ICMET Craiova, Craiova
			Romania
			Romania
16:45h	07734	T4.2-4	Tuning of PI Speed Controller for PMSM Control System Using Computational Intelligence
		Nicola	Marcel
		Nicola	Claudiu-Ionel
			National Institute for Research, ICMET Craiova, Craiova
			National Institute for Research, ICMET Craiova, Craiova
			Romania
			Romania
17:00h	04034	T4.2-5	Approaches to Reducing of the Active Power Measurement Error for a Method Based on Averaging of Instantaneous Power
		Serov	Andrey
			National Research University, Moscow Power Eng. Institute, Moscow
			Russian Federation
17:15h	00134	T4.2-6	Method of Reducing of the Complex Spectrum Measurement Error In Case of Applying of the Quadrature Demodulation Technique
		Serov	Andrey
		Serov	Nikolay
		Shatokhin	Alexander
			National Research University, Moscow Power Eng. Institute, Moscow
			Russian Federation
			Russian Federation
			Russian Federation
17:30h	05634	T4.2-7	Analysis of the influence of non-simultaneous sampling on the measurement of three-phase instantaneous power
		Vojvodić	Nikola
		Bebić	Milan
			University of Belgrade, School of Electrical Engineering, Belgrade
			University of Belgrade, School of Electrical Engineering, Belgrade
			Serbia
			Serbia

18:00h	PLENARY Session	Awards Session (Media sponsor - Journal Energies)	MS Teams platform
Chair:			
Co-chair:			

- Best Paper Award (300\$, sponsored by Energies)
- Best Student Paper Awards
(free registration fee at Ee2022, sponsored by Ee conference)
- National Best Paper Award - for Serbian authors only
(sponsored by Power Electronics Society of Serbia)
- Special Issue of Energies: "Smart Power Electronics – Selected papers from the 21st International Symposium on Power Electronics (Ee 2021)":
Announcement of the selected papers.

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Smart Power Electronics—Selected Papers from the 21st International Symposium on Power Electronics (Ee2021)

Guest Editors
Prof. Dr. Jelena Popovic, Prof. Dr. Huai Wang, Prof. Dr. Slobodan N. Vukosavic, Prof. Dr. Vladimir Katic

Deadline
15 December 2021

Special Issue
invitation to submit

mdpi.com/si/88458

18:30h	Social Activities (Virtual Welcome Party)
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Saturday, 30 Oct. 2021.

08:00 - 09:00h					REGISTRATION / TESTING & UPLOAD	
10:00h		PLENARY Session - KN3	KEY-NOTE PAPERS		MS Teams platform	
Chair:						
Co-chair:						
10:00h	KN3.1	Managing Power Complexity for Extreme Performance: Circuit, Architecture, and Magnetics				
		Chen	Minjie	Princeton University, Princeton		United States
10:30h	KN3.2	Component Data - The Key to Unleash the Potential of Design Automation for Power Electronics				
		Hermanns	Kevin	PE-Systems GmbH, Darmstadt		Germany
11:00 - 11:15h					REFRESHMENT BREAK	
11:15h		SESSION -T1.3	POWER CONVERTERS AND DEVICES		MS Teams platform	
Chair:						
Co-chair:						
11:15h	07834	T1.3-1	Analysis and Design of Partial-Power Rated Single-Phase Diode Boost Rectifier			
			Grbovic	Petar	University of Innsbruck, Innsbruck Power Electr. Lab. (i-PEL), Innsbruck	Austria
			Miletic	Zoran	Austrian Institute of Technology (AIT), Vienna	Austria
			Lopusina	Igor	University of Innsbruck, Innsbruck Power Electr. Lab. (i-PEL), Innsbruck	Austria
11:30h	04634	T1.3-2	Design of a SiC Mosfet 6-Phase Boost Rectifier			
			Di Nezio	Giulia	Roma Tre University, Roma	Italy
			di Benedetto	Marco	Roma Tre University, Roma	Italy
			Lidozzi	Alessandro	Roma Tre University, Roma	Italy
			Solero	Luca	Roma Tre University, Roma	Italy
11:45h	05134	T1.3-3	Braking energy recovery by Modular Multilevel Converters in MVDC Railway Electrification Systems			
			Strobl	Simon	EPFL, Power Electronics Laboratory, Lausanne	Switzerland
			Milovanovic	Stefan	EPFL, Power Electronics Laboratory, Lausanne	Switzerland
			Ladoux	Philippe	University of Toulouse, Laboratory LAPLACE, Toulouse	France
			Dujic	Drazen	EPFL, Power Electronics Laboratory, Lausanne	Switzerland
12:00h	06734	T1.3-4	Increasing Current Loop Performance Using Variable Accuracy Feedback for GaN Inverters			
			Anuchin	Alecksey	National Research University, Moscow Power Eng. Institute, Moscow	Russian Federation
			Gulyaeva	Maria	National Research University, Moscow Power Eng. Institute, Moscow	Russian Federation
			Zharkov	Alexandr	National Research University, Moscow Power Eng. Institute, Moscow	Russian Federation
			Lashkevich	Maxim	National Research University, Moscow Power Eng. Institute, Moscow	Russian Federation
			Hao	Chen	China University of Mining & Technology, Xuzhou	China
			Dianov	Anton	National Research University, Moscow Power Eng. Institute, Moscow	Russian Federation
12:30h	05834	T1.3-5	New Three-Level Soft Turn-off T-type NPC Inverter			
			Penczek	Adam	AGH University of Science and Technology, Krakow	Poland
			Mondzik	Andrzej	AGH University of Science and Technology, Krakow	Poland
			Piróg	Stanisław	AGH University of Science and Technology, Krakow	Poland
			Twaróg	Mateusz	AGH University of Science and Technology, Krakow	Poland
			Stala	Robert	AGH University of Science and Technology, Krakow	Poland
12:45h	07134	T1.3-6	1:1 Resonant Switched Capacitor with Capacitive-based Isolation			
			Serrano	Diego	Universidad Politécnica de Madrid, Centro de Electrónica Ind., Madrid	Spain
			Vasić	Miroslav	Universidad Politécnica de Madrid, Centro de Electrónica Ind., Madrid	Spain
13:00h					CLOSING	
					MS Teams platform	