

22nd International Symposium on Power Electronics - Ee2023
Venue: Belgrade, Serbian Academy of Sciences and Arts / Novi Sad, Science and Technology Park
Final Program / Finalni Program

Updated: Oct. 6, 2023

Time	Paper Id	Session	Paper title / Author: Family name	Author: Given name	Affiliation	State / Venue
Wednesday, 25 Oct. 2023.						
Venue: Novi Sad, Science and Technology Park (STP), Fruškogorska 1, Novi Sad						
09:45 - 10:00h			OPENING -Opening of the Tutorials			Science and Technology Park (STP) - Hall 2
10:00 - 13:00h		TT-2:	Tutorial 2			Science and Technology Park (STP) - Hall 2
		Chair:	TBD			
			Regina Ramos Universidad Politecnica de Madrid, Center for Industrial Electronics Madrid, Spain "Overview of Wireless Power Transfer Systems and Their Control and Application in Implantable Medical Devices"			
10:00 - 13:00h		TT-3:	Tutorial 3			STP - Hall 3
		Chair:	Mladen Vučković, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
			Alecksey Anuchin Moscow Power Engineering Institute, Department of Automated Electric Drive, Moscow, Russian Federation "Modern Methods for Precise Speed Measurement in Electric Drives"			
12:00h	PLENARY Session		Lectures - IEEE Joint Chapter IAS/IES/PELS Novi Sad, Serbia			STP - Hall 5
		Chair:	Prof. Vladimir Katić, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
			TBD			
			Perreault	David	Massachusetts Institute of Technology, Cambridge	United States
13:00h - 14:00h			LUNCH BREAK			
14:00			Opening of the Student competition: "Control in Power-CinP 2023"			STP - Hall 2
14:00 - 18:00h	CinP		Student competition, "Control in Power – CinP 2023"			STP Laboratories
Thursday, 26 Oct. 2023.						
Venue: Belgrade, Serbian Academy of Sciences and Arts (SASA), Knez Mihajlova 35, Belgrade						
07:30h			Departure from Novi Sad to Belgrade (bus)			Place of departure: Street Dr Sime Milosevica 16 (in front of the Faculty for Economics)
09:30h			BELGRADE Registration desk opens			
10:00h	PLENARY Session		Opening of the conference			Serbian Academy of Sciences and Arts - Ceremonial Hall
		Chair:	Prof. Vladimir Katić, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
		Co-chair:	Prof. Dushan Boroyevich, Virginia Polytechnic Institute and State University, Blacksburg, United States			
		Co-chair:	Academician Prof. Slobodan Vukosavić, University of Belgrade/Serbian Academy of Sciences and Arts, Belgrade, Serbia			
			Opening speech, Prof. Vladimir Katić, "50 years of the Ee symposium (1973-2023)", Univ. of Novi Sad & President of the Power Electronics Soc. of Serbia, Novi Sad, Serbia Welcome speech, Academician Prof. Zoran Knežević, President of the Serbian Academy of Sciences and Arts, Belgrade, Serbia Welcome speech, Academician Prof. Slobodan Vukosavić, President of the Department of Technical Sciences SASA, Belgrade, Serbia Welcome speech, Prof. Dr. Boris Dumnić, Acting dean of the Faculty of Technical Sciences of the University of Novi Sad, Novi Sad, Serbia Welcome speech, Dr. Dragan Kovačević, Director of the Electrical Engineering Institute "Nikola Tesla", Belgrade, Serbia Welcome speech and official opening of the Ee2023, Dr. Jelena Begović, Minister, Ministry of Science, Technological Development and Innovation, Belgrade, Serbia Dr. Žarko Janda, "History and Significance of the Ee Symposiums", Electrical Engineering Institute "Nikola Tesla", Belgrade, Serbia Prof. Vladimir Katić, Awarding of Jubilee Charts Welcome speech of the representative of the main supporting company, TBD, ZF Serbia, Pančevo, Serbia Prof. Vladimir Katić, A Brief Overview of the Ee 2023 Program			

10:45h	PLENARY Session - KN1	KEY-NOTE PAPERS	Serbian Academy of Sciences and Arts - Ceremonial Hall	
	Chair:	TBD		
	Co-chair:	TBD		
10:45h	KN1.1	Power Semiconductor Development Trend - Challenges in Automotive and Railway Applications -		
	Lorenz	Leo	ECPE/Infineon and the German Academy of Science, Nuremberg	Germany
11:15h	KN1.2	Power Electronics Technology - Quo Vadis		
	Blaabjerg	Frede	University of Aalborg, Aalborg	Denmark
11:45 - 12:00h	REFRESHMENT BREAK			
12:00h	PLENARY Session - KN1	KEY-NOTE PAPERS	Serbian Academy of Sciences and Arts - Ceremonial Hall	
	Chair:	TBD		
	Co-chair:	TBD		
12:00h	00838	KN2.1	MAGLEVs: an overview in 2023	
		Boldea	Ion	Romanian Academy, Politehnica University Timisoara, Electrical Engineering Department
		Popa	Ana-Adela	Romanian Academy, Politehnica University Timisoara, Electrical Engineering Department
		Tutelea	Lucian Nicolae	Romanian Academy, Politehnica University Timisoara, Electrical Engineering Department
12:30h	KN2.2	Advances in High-Frequency Power Conversion for Industrial Applications		
	Perreault	David	Massachusetts Institute of Technology, Cambridge	United States
13:00h	KN2.3	Power electronic solution to hardware and control issues of inverter-dominated power systems		
	Vukosavić	Slobodan	University of Belgrade/Serbian Academy of Sciences and Arts, Belgrade	Serbia
13:30h - 14:30h	LUNCH BREAK			
14:30h	Visit to the Nikola Tesla Museum (Bus transfer depart)			
16:00h	Depart to welcome reception venue (Sr. Karlovci)			
18:00h	Welcome reception, Museum of Beekeeping and Wine cellar of the Zivanović family, Sr. Karlovci			
21:00h	Depart to Novi Sad			
Venue: Novi Sad, Science and Technology Park (STP), Fruškogorska 1, Novi Sad				
09:00h	NOVI SAD Registration desk opens			
10:00 - 17:30h	Exhibition in the hall			
10:00 - 17:30h	Students DAY (open for visits of university and high-school students)			
09:00 - 16:00h	CinP-2023 Competition (1st round – cont.)			

12:00 - 13:30h	IS1	Industry session: Supporting companies' presentations			STP - Hall 4
	Chair:	Assoc. Prof. Stevan Cvetičanin, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
	Co-chair:	TBD			
	IS1-1	ZF Serbia Presentation			
		TBD	ZF Serbia, Pančevo		Serbia
	IS1-2	Typhoon HIL Presentation			
		TBD	Typhoon Hil, Inc., Novi Sad		Serbia
	IS1-3	Bosch Presentation			
		TBD	Bosch		Serbia
	IS1-4	Brose Presentation			
		TBD	Brose d.o.o., Pančevo		Serbia
	IS1-5	Infineon Presentation			
		TBD	Infineon		Austria
13:30h - 13:50h	Coffee Break				
13:50 - 16:00h	IS-2	Industry session (cont.): Supporting companies'			STP - Hall 4
	Chair:	Assoc. Prof. Stevan Cvetičanin, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
	Co-chair:	TBD			
	IS2-1	Continental Presentation			
		TBD	Continental, Novi Sad		Serbia
	IS2-2	Mind Park Presentation			
		TBD	Mind Park, Kragujevac		Serbia
	IS2-3	Origin / Nova Zona Presentation			
		TBD	Origin / Nova Zona Pančevo		Serbia
	IS2-4	Electrical Institute Nikola Tesla			
		TBD	University of Belgrade, Electrical Institute Nikola Tesla		Serbia
	IS2-5	Department of power, electronic and telecommunication engineering Presentation			
		TBD	University of Novi Sad, Faculty of Technical Sciences		Serbia
16:00h	IEEE	IEEE Student Branches Meet-Up (TBD)			STP - Hall 5
16:00h		CinP-2023 Competition (final round): CinP 2023: FINALE			STP - Hall 4
18:00h	Welcome reception, Museum of beekeeping and wine cellar of the Zivanović family, Sr. Karlovci				

Friday, 27 Oct. 2023.

Venue: Novi Sad, Science and Technology Park (STP)

08:30h SESSION -T1.1		Power Converters and devices			STP - Hall 2	
Chair:		TBD				
Co-chair:		TBD				
08:30h	01538	T1.1-1	Study of the application of wide-band transistors in inverter arc welders			
			Dankov	Dobroslav	Technical University of Gabrovo	Bulgaria
			Marinov	Petko	Technical University of Gabrovo	Bulgaria
			Prodanov	Prodan	Technical University of Gabrovo	Bulgaria
08:45h	06438	T1.1-2	Autonomously Modulating Gate Drivers For Triangular-Current Mode (TCM) Zero-Voltage Switching (ZVS) Buck Converter			
			Abbas	Khizra	KTH Royal Institute of Technology	Sweden
			Nee	Hans-Peter	KTH Royal Institute of Technology	Sweden
			Kostov	Konstantin	RISE Research Institutes of Sweden	Sweden
09:00h	00138	T1.1-3	Active-Clamped Flyback Converter: Dynamic Load and Cross-Regulation Aspects			
			Vračar	Darko	BRUSA Elektronik (München) GmbH	Germany
09:15h	00638	T1.1-4	Digital control challenges in a single-phase CCM totem-pole PFC rectifier with GaN devices			
			Stanić	Luka	University of Belgrade, School of Electrical Engineering	Serbia
			Despotović	Željko V.	University of Belgrade, Institute Mihjalo Pupin	Serbia
			Pajnić	Milan	Research Division Power Electronics, Silicon Austria Labs (SAL)	Austria
			Skender	Miodrag	IRITEL Institute, Department of Power Electronics	Serbia
09:30h	00738	T1.1-5	A Realization of Synchronous Buck Power Converter for Energy Harvesting from Vibrations			
			Despotovic	Zeljko V.	University of Belgrade, Mihajlo Pupin Institue	Serbia
			Vijatovic Petrovic	Mirjana	University of Belgrade, Institute for Multidisciplinary Research-Department of Materials Science	Serbia
			Bobic	Jelena	University of Belgrade, Institute for Multidisciplinary Research-Department of Materials Science	Serbia
09:45h	01938	T1.1-6	Design of a Modular Multilevel Converter with 400 kWh of Integrated Batteries			
			Katzenburg	Niklas	Karlsruhe Institute of Technology	Germany
			Kuhlmann	Kai	Aschaffenburg University of Applied Sciences	Germany
			Leister	Lars	Karlsruhe Institute of Technology	Germany
			Stefanski	Lukas	Karlsruhe Institute of Technology	Germany
			Teigelkötter	Johannes	Aschaffenburg University of Applied Sciences	Germany
			Hiller	Marc	Karlsruhe Institute of Technology	Germany
08:30h SESSION -T3.1		Electric Machines			STP - Hall 3	
Chair:		TBD				
Co-chair:		TBD				
08:30h	03038	T3.1-1	ALA-rotor RSG 10MW, 480rpm-preliminary design with 2Dkey FEM validations			
			Boldea	Ion	University Politehnica Timisoara	Romania
			Torac	Ileana	Romanian Academy Timisoara Branch	Romania
			Tutelea	Lucian	University Politehnica Timisoara	Romania
08:45h	05938	T3.1-2	Experimental determination of equivalent parameters of the cage rotor as slip functions			
			Moț	Martjan	Politehnica University Timisoara, Electrical Engineering Department	Romania
			Greconici	Marian	Politehnica University Timisoara, Electrical Engineering Department	Romania
			Biriescu	Marius	Politehnica University Timisoara, Electrical Engineering Department	Romania
			Madescu	Gheorghe	Politehnica University Timisoara, Electrical Engineering Department	Romania

09:00h		SESSION -T6.1	Power quality	STP - Hall 3
		Chair:	TBD	
		Co-chair:	TBD	
09:00h	00238	T6.1-1	How to Improve Operation of Coal Power Plant? Mirchevski Slobodan "Ss Cyril and Methodius" University, Faculty of Electrical Engineering and Information Technologies North Macedonia Rafajlovski Goran "Ss Cyril and Methodius" University, Faculty of Electrical Engineering and Information Technologies North Macedonia Vidanovski Dragan JSC "North Macedonian Power Plants", REK Bitola North Macedonia	
09:15h	02038	T6.1-2	Modeling of the output admittance for the grid-connected three-level T-type power converter with LCL filter Miletic Zoran Austrian Institute of Technology GmbH Austria Tarraso Andres Polytechnical University of Catalonia (UPC) Spain Tremmel Werner Austrian Institute of Technology GmbH Austria Banjac Anja Austrian Institute of Technology GmbH Austria Stöckl Johannes Austrian Institute of Technology GmbH Austria Grbović Petar University of Innsbruck, Innsbruck Power Electronics Lab - i-PEL Austria	
09:30h	06238	T6.1-3	Test bench for evaluation of machine learning algorithms applied to PQ parameters classification Brestovacki Lenka University of Novi Sad, Faculty of Technical Sciences Serbia Stanisavljevic Aleksandar University of Novi Sad, Faculty of Technical Sciences Serbia Vasiljevic Toskic Marko University of Novi Sad, Faculty of Technical Sciences Serbia Turovic Radovan University of Novi Sad, Faculty of Technical Sciences Serbia Katic Vladimir University of Novi Sad, Faculty of Technical Sciences Serbia Dragan Dinu University of Novi Sad, Faculty of Technical Sciences Serbia	
09:45h	04738	T6.1-4	EMI and EMC in Electronics Course at the FTS, University of Novi Sad Damnjanović Mirjana University of Novi Sad, Faculty of Technical Sciences Serbia Babković Kalman University of Novi Sad, Faculty of Technical Sciences Serbia Kisić Milica University of Novi Sad, Faculty of Technical Sciences Serbia	
08:30h		SESSION -T5.1	Smart Power Electronics, Smart Grids, and Energy Storage	STP - Hall 5
		Chair:	TBD	
		Co-chair:	TBD	
08:30h	03338	T5.1-1	Review on the state-of-the-art of hybrid energy storage systems for Electric Transportation systems and their applicability to mobile robots Jesacher Erwin University of Innsbruck, Innsbruck Power Electronics Laboratory (i-pel) Austria Bouvier Yann E. University of Innsbruck, Innsbruck Power Electronics Laboratory (i-pel) Austria Hanschek Andreas J. University of Innsbruck, Innsbruck Power Electronics Laboratory (i-pel) Austria Stanojevic Aleksandra University of Innsbruck, Innsbruck Power Electronics Laboratory (i-pel) Austria Grbovic Petar J. University of Innsbruck, Innsbruck Power Electronics Laboratory (i-pel) Austria	
08:45h	06638	T5.1-2	Enhancing stability of Grid-Following inverter for renewables Glušćević Jovana University of Belgrade, Electrical Institute Nikola Tesla Serbia Janda Žarko University of Belgrade, Electrical Institute Nikola Tesla Serbia Dragosavac Jasna University of Belgrade, Electrical Institute Nikola Tesla Serbia Ristić Lepasava University of Belgrade, School of Electrical Engineering Serbia	

09:00h		SESSION -T7.1	Renewable & distributed energy sources			STP - Hall 5
		Chair:	TBD			
		Co-chair:	TBD			
09:00h	02138	T7.1-1	High Efficient Maximum Power Point Tracking for Multiple Solar Strings with GaN-Based HiLEM Circuit			
			Becker	Marcus	Karlsruhe Institute of Technology	Germany
			Stefanski	Lukas	Karlsruhe Institute of Technology	Germany
			Hiller	Marc	Karlsruhe Institute of Technology	Germany
09:15h	02338	T7.1-2	Small Magnus Wind Turbine Control System Based on MPPT Approaches			
			Lukin	Aleksandr	ITMO University	Russian Federation
			Demidova	Galina	ITMO University	Russian Federation
			Poliakov	Nikolai	ITMO University	Russian Federation
			Rezaeva	Maria	ITMO University	Russian Federation
			Zhdanov	Ivan	ITMO University	Russian Federation
			Lukichev	Dmitry	ITMO University	Russian Federation
09:30h	03838	T7.1-3	Investigation of Incremental Conductance MPPT Algorithm in MATLAB/Simulink Using Photovoltaic Powered DC-DC Boost Converter			
			Akın	Ercan	Recep Tayyip Erdoğan University, Department of Electrical and Electronics Engineering	Turkey
			Şahin	Mustafa Ergin	Recep Tayyip Erdoğan University, Department of Electrical and Electronics Engineering	Turkey
09:45h	05438	T7.1-4	Wind Turbine Modeling Using Wind Speed Measurement Data			
			Milad	Sulaiman	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Milićević	Srđan	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Katić	Vladimir A.	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Stanisavljević	Aleksandar M.	University of Novi Sad, Faculty of Technical Sciences	Serbia
10:00h - 10:15h		Coffee Break				
10:15h		SESSION -T1.2	Power Converters and devices			STP - Hall 1
		Chair:	TBD			
		Co-chair:	TBD			
10:15h	01738	T1.2-1	Prototype Proposal of an 18 kW Non-Isolated Bidirectional Converter for Battery Energy Storage System			
			Brandis	Andrej	Faculty of Electricity Engineering, Computer Science and Information Technology Osijek	Croatia
			Knol	Kristian	Faculty of Electricity Engineering, Computer Science and Information Technology Osijek	Croatia
			Pelin	Denis	Faculty of Electricity Engineering, Computer Science and Information Technology Osijek	Croatia
			Topić	Danijel	Faculty of Electricity Engineering, Computer Science and Information Technology Osijek	Croatia
10:30h	01338	T1.2-2	Design of modular 110V / 370V 10kW Front-End Converter for High-Power Single-Phase Inverter			
			Kuraj	Ivan	Electrical Engineering Institute Nikola Tesla	Serbia
			Glušćević	Jovana	Electrical Engineering Institute Nikola Tesla	Serbia
			Kovačević	Nikola	Electrical Engineering Institute Nikola Tesla	Serbia
			Ninković	Predrag	Electrical Engineering Institute Nikola Tesla	Serbia
10:45h	02638	T1.2-3	Design and Operation of a Three-Phase Split-Source Inverter with a 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
			Grgić	Ivan	University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture	Croatia
			Vekić	Marko	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Strinić	Ivan	University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture	Croatia

11:00h	03238	T1.2-4	Comparison between ZVS and ZCS Series Resonant Balancing Converters			
			Lopusina	Igor	University of Innsbruck, Innsbruck Power Electronics Laboratory (i-pel)	Austria
			Stanojevic	Aleksandra	University of Innsbruck, Innsbruck Power Electronics Laboratory (i-pel)	Austria
			Bouvier	Yann E.	University of Innsbruck, Innsbruck Power Electronics Laboratory (i-pel)	Austria
			Grbovic	Petar J.	University of Innsbruck, Innsbruck Power Electronics Laboratory (i-pel)	Austria
11:15h	04138	T1.2-5	Review of Fully Soft-Switching Flying Capacitor-Based Quasi-Resonant Converters			
			Nag	Kumar Joy	University of Toronto	Canada
			Prodic	Aleksandar	University of Toronto	Canada
10:15h	SESSION T4.1		Advanced Control Systems and Measurement			STP - Hall 2
			Chair:	TBD		
			Co-chair:	TBD		
10:15h	04238	T4.1-1	Encoderless Predictive Speed and Torque Control of an Induction Motor			
			Zerdali	Emrah	Ege University, Department of Electrical and Electronics Engineering	Turkey
			Rivera	Marco	University of Nottingham, Faculty of Engineering, Power Electronics and Machine Centre - PEMC	United Kingdom
			Zanchetta	Pericle	University of Nottingham, Faculty of Engineering, Power Electronics and Machine Centre - PEMC	United Kingdom
			Wheeler	Patrick	University of Nottingham, Faculty of Engineering, Power Electronics and Machine Centre - PEMC	United Kingdom
			Ristić	Leposava	University of Belgrad, School of Electrical Engineering	Serbia
10:30h	01138	T4.1-2	4-Axis Control Application with Simatic S7-1500T and Sinamics S210			
			Rata	Mihai	Stefan cel Mare University of Suceava	Romania
			Graur	Adrian	Stefan cel Mare University of Suceava	Romania
			Rata	Gabriela	Stefan cel Mare University of Suceava	Romania
10:45h	03638	T4.1-3	Phase Current Reconstruction, DC Link Voltage and Rds-on Measurement Using Sensors Integrated on Gate Drivers for SiC MOSFET			
			Mitrovic	Vladimir	Virginia Tech, Center for Power Electronics Systems	United States
			Fan	Boran	Virginia Tech, Center for Power Electronics Systems	United States
			Cao	Yuliang	Virginia Tech, Center for Power Electronics Systems	United States
			Bai	Yijie	Virginia Tech, Center for Power Electronics Systems	United States
			Burgos	Rolando	Virginia Tech, Center for Power Electronics Systems	United States
			Boroyevich	Dushan	Virginia Tech, Center for Power Electronics Systems	United States
11:00h	03938	T4.1-4	A Novel Quadrature-Signal-Generator based on Sliding-Mode Discrete Fourier Transform			
			Ninkovic	Predrag	Electrical Engineering Institute Nikola Tesla	Serbia
11:15h	04038	T4.1-5	Power Calculations by Using Enhanced Frequency-Locked Loops			
			Mandić	Zorana	University of East Sarajevo, Faculty of Electrical Engineering	Bosnia and Herzegovina
			Kukrić	Nikola	University of East Sarajevo, Faculty of Electrical Engineering	Bosnia and Herzegovina
			Lale	Srđan	University of East Sarajevo, Faculty of Electrical Engineering	Bosnia and Herzegovina
			Popović	Božidar	University of East Sarajevo, Faculty of Electrical Engineering	Bosnia and Herzegovina
			Jokić	Dejan	International Burch University	Bosnia and Herzegovina
			Lubura	Slobodan	University of East Sarajevo, Faculty of Electrical Engineering	Bosnia and Herzegovina

10:15h SESSION -T3.2		Electric Machines		STP - Hall 3
Chair:		TBD		
Co-chair:		TBD		
10:15h	01238	T3.2-1	Hybrid Iron Loss Model for IPMSMs in Wide-Speed Range Applications	
			Banović Milica	University of Belgrade, School of Electrical Engineering
			Iričanin Bratislav	University of Belgrade, School of Electrical Engineering
			Reljić Dejan	University of Novi Sad, Faculty of Technical Sciences
			Jerkan Dejan	University of Novi Sad, Faculty of Technical Sciences
10:30h	02738	T3.2-2	Comparison of optimal control trajectories of IPMSMs with different saliency ratios	
			Jaric Milica	University of Novi Sad, Faculty of Technical Sciences
			Popovic Vladimir	University of Novi Sad, Faculty of Technical Sciences
			Vuckovic Mladen	University of Novi Sad, Faculty of Technical Sciences
			Marcetic Darko	University of Novi Sad, Faculty of Technical Sciences
			Jerkan Dejan	University of Novi Sad, Faculty of Technical Sciences
10:45h	00438	T3.2-3	Design of Novel Hybrid Excitation Segmented-rotor Switched Reluctance Motor for Electric Vehicle	
			Yan Wenju	China University of Mining and Technology, School of Electrical Engineering
			Hu Jiangpeng	China University of Mining and Technology, School of Electrical Engineering
			Chen Hao	China University of Mining and Technology, School of Electrical Engineering
			Li Hailong	China University of Mining and Technology, School of Electrical Engineering
			Yu Fengyuan	China University of Mining and Technology, School of Electrical Engineering
			Wang Qing	Nanchang University, School of Information Engineering
11:00h	03138	T3.2-4	Three-phase Biaxial Excitation Synchronous Generator (BEGA) intern-fault experimental characterisation	
			Khodabux Kaleem	Université des Mascareignes Roches Brunes
			Martin Adrian Daniel	University Politehnica Timisoara
			Vitan Liviu - Dănuț	University Politehnica Timisoara
			Tutelea Lucian - Nicolae	University Politehnica Timisoara, Romanian Academy-Timisoara Branch Timisoara
			Busawon Krishna	Northumbria University Newcastle upon Tyne, United Kingdom
			Boldea Ion	University Politehnica Timisoara, Romanian Academy-Timisoara Branch Timisoara
11:15h	05138	T3.2-5	Hardware-in-the-Loop Simulation of a Virtual Synchronous Motor	
			Tanasic Mihailo	University of Belgrade, School of Electrical Engineering
			Brkovic Bogdan	University of Belgrade, School of Electrical Engineering
			Majstorovic Milovan	University of Belgrade, School of Electrical Engineering
			Ristic Lepasava	University of Belgrade, School of Electrical Engineering
11:30h	00338	T3.2-6	An Adaptive Electromagnetic Force Distribution Method Based on a Double-sided Switched Reluctance Linear Motor	
			Liu Jinfu	China University of Mining and Technology, School of Electrical Engineering
			Chen Hao	China University of Mining and Technology, School of Electrical Engineering
			Yan Wenju	China University of Mining and Technology, School of Electrical Engineering
			Do Ton Duc	Nazarbayev University
			Shamiev Murat	Tashkent State Technical University
			Tairov Yokub	Tashkent State Technical University
			Aguirre Miguel Pablo	Instituto Tecnológico de Buenos Aires

12:00h	PLENARY Session - KN3	KEY-NOTE PAPERS			STP - Hall 1
	Chair:	TBD			
	Co-chair:	TBD			
12:00h	KN3.1	Mission profile emulation and reliability testing for power electronics			
		Ma	Ke	Shanghai Jiao Tong University, Shanghai	China
12:30h	KN3.2	Railway traction Power Supply from the state of the art to future trends			
		Ladoux	Philippe	University of Toulouse	France
13:00h - 14:00h		LUNCH BREAK			
14:00h	PLENARY Session - IP1	INVITED PAPERS			STP - Hall 1
	Chair:	Assoc. Prof. Stevan Cvetičanin, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
	Co-chair:	TBD			
14:00h	06038	IP1.1	High-Performance Multi-sampled Control for Power Electronics Converters		
			Cvetanovic	Ruzica	University of Padova
			Petric	Ivan	Hanwha Q CELLS America Inc.
			Mattavelli	Paolo	University of Padova
			Buso	Simone	University of Padova
					Italy
					United States
					Italy
					Italy
14:20h	04638	IP1.2	A Sliding Mode based Controller for No Inertia Islanded Microgrids		
			Procopio	Renato	University of Genoa
			Bonfiglio	Andrea	University of Genoa
			Rosini	Alessandro	University of Genoa
			Petronijević	Milutin	University of Nis
			Filipović	Filip	University of Nis
			Incremona	Gian Paolo	Politecnico di Milano
			Ferrara	Antonella	University of Pavia
					Italy
					Italy
					Italy
					Serbia
					Serbia
					Italy
					Italy
14:45h	IS-3	Industry session: Supporting companies' presentations			STP - Hall 1
	Chair:	Assoc. Prof. Stevan Cvetičanin, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
	Co-chair:	TBD			
	IS3-1	ZF Serbia Presentation			
			TBD	ZF Serbia, Pančevo	Serbia
	IS3-2	Typhoon HIL Presentation			
			TBD	Typhoon Hil, Inc., Novi Sad	Serbia
	IS3-3	Bosch Presentation			
			TBD	Bosch	Serbia
	IS3-4	Brose Presentation			
			TBD	Brose d.o.o., Pančevo	Serbia
	IS3-5	Infineon Presentation			
			TBD	Infineon	Austria
16:15h - 16:30h		Coffee Break			
16:30h	PLENARY Session - IP2	INVITED PAPERS			STP - Hall 1
	Chair:	TBD			
	Co-chair:	TBD			
16:30h	01438	IP2.1	Modern Solution of Inductive Charging System for 800 V Batteries of Electric Vehicles		
			Vračar	Darko	BRUSA Elektronik (München) GmbH, Munchen
					Germany
16:50h		IP2.2	Next level of power density in on-board charger systems with bi-directional GaN switches		
			Pacini	Alex	Infineon Technologies Austria AG, Graz
					Austria

17:10h	PLENARY Session - IL1	INVITED LECTURES	STP - Hall 1
	Chair:	TBD	
	Co-chair:	TBD	
17:10h	IL1.1	Steps Towards Widespread Use of DC Microgrids: Opportunities and Challenges	
		Lazarević Vladan ABB, Baden	Switzerland
17:30h	IL1.2	Next-generation enabling technology for advanced packaging solutions in power electronics	
		Mišković Goran Infineon Technologies Austria AG, Villach	Austria
18:00h	SESSION -T1.3	Power Converters and devices	STP - Hall 1
	Chair:	TBD	
	Co-chair:	TBD	
18:00h	04538	T1.3-1	Multi-objective Design Optimization and Selection of Bidirectional DC-DC Converters for Solid Oxide Fuel Cells
		Saafan Ahmed Virginia Polytechnic Institute and State University, Blacksburg	United States
		Iurich Mattia Virginia Polytechnic Institute and State University, Blacksburg	United States
		Fan Boran Virginia Polytechnic Institute and State University, Blacksburg	United States
		Dong Dong Virginia Polytechnic Institute and State University, Blacksburg	United States
		Burgos Rolando Virginia Polytechnic Institute and State University, Blacksburg	United States
18:15h	04838	T1.3-2	Hardware Design Considerations for a 100 W USB Type-C Power Delivery in Aircraft Application
		Zhao Tianyu Virginia Polytechnic Institute and State University, Blacksburg	United States
		Burgos Rolando Virginia Polytechnic Institute and State University, Blacksburg	United States
		Wen Bo Virginia Polytechnic Institute and State University, Blacksburg	United States
		McLean Andrew Collins Aerospace	United Kingdom
		Mattos Rodrigo Collins Aerospace	United Kingdom
18:30h	04938	T1.3-3	A New Highly Step-Down Quadratic Converter
		Pop Gabriela-Madalina Politehnica University Timisoara	Romania
		Jurca Lucia-Daniela Politehnica University Timisoara	Romania
		Pop-Calimanu Ioana-Monica Politehnica University Timisoara	Romania
		Lascu Dan Politehnica University Timisoara	Romania
18:45h	05238	T1.3-4	Optimized inductance method based on neural networks for wireless power transfer applications in implantable medical devices
		Rodríguez Fuentes Álvaro Universidad Politécnica de Madrid	Spain
		Jiménez Carrizosa Miguel Universidad Politécnica de Madrid	Spain
		Ramos Regina Universidad Politécnica de Madrid	Spain
		Delgado Alberto Universidad Politécnica de Madrid	Spain
19:00h	02938	T1.3-5	Optimization of custom Ferrite E-core-shaped transformers for power loss and volume reduction using Pareto front analysis
		Bouvier Yann E. University of Innsbruck, Innsbruck Power Electronics Laboratory (i-pel)	Austria
		Salinas Guillermo Independent researcher	Spain
		Stanojevic Aleksandra University of Innsbruck, Innsbruck Power Electronics Laboratory (i-pel)	Austria
		Grbovic Petar J. University of Innsbruck, Innsbruck Power Electronics Laboratory (i-pel)	Austria

18:00h		SESSION -T5.2	Smart Power Electronics, Smart Grids, and Energy Storage			STP - Hall 2
		Chair:	TBD			
		Co-chair:	TBD			
18:00h	03538	T5.2-1	Research and Simulation of Step-up Converter of Battery Power Supply for DC Drive System			
			Arbuzina	Arina	ITMO University	Russian Federation
			Arkharova	Margarita	ITMO University	Russian Federation
			Politsinsky	Alexander	ITMO University	Russian Federation
			Demidova	Galina	ITMO University	Russian Federation
			Garg	Akhil	Huazhong University of Science and Technology	China
			Poliakov	Nikolai	ITMO University	Russian Federation
18:15h	04338	T5.2-2	Black-Box Modeling of Synchronous Generators Using Feedforward Neural Networks			
			Ivanović	Luka	University of Belgrade, Electrical Institute Nikola Tesla	Serbia
			Stojić	Đorđe	University of Belgrade, Electrical Institute Nikola Tesla	Serbia
			Veinović	Slavko	University of Belgrade, Electrical Institute Nikola Tesla	Serbia
			Joksimović	Dušan	University of Belgrade, Electrical Institute Nikola Tesla	Serbia
			Klasnić	Ilija	University of Belgrade, Electrical Institute Nikola Tesla	Serbia
			Milić	Saša	University of Belgrade, Electrical Institute Nikola Tesla	Serbia
			Rakić	Aleksandar	University of Belgrade, School of Electrical Engineering	Serbia
18:30h	05338	T5.2-3	Secondary and Primary Goal-Function-Based Control in Inverter-Interfaced Microgrids			
			Vekic	Marko	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Isakov	Ivana	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Rapaić	Milan	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Todorović	Ivan	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Grabić	Stevan	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Bašić	Mateo	University of Split, Department of Power Engineering	Croatia
18:45h	05638	T5.2-4	Design and development of an intelligent energy management system for a microgrid application			
			Bojovic	Petar D.	Union University Belgrade, The School of Computing	Serbia
			Bojovic	Zivko	University of Novi Sad, Faculty of Technical Sciences	Serbia
19:00h	05738	T5.2-5	Short-term load forecasting through the identification of similar hour series			
			Turudić	Slađana	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Selakov	Aleksandar	University of Novi Sad, Faculty of Technical Sciences	Serbia
			Janković	Zoran	University of Novi Sad, Faculty of Technical Sciences	Serbia
18:00h		SESSION -T2.1	Automotive and Industrial Electrical drives			STP - Hall 3
		Chair:	TBD			
		Co-chair:	TBD			
18:00h	00538	T2.1-1	Current Regulation in Multiphase Open-end Winding Machines under Open Circuit Fault			
			Lashkevich	Maxim	Moscow Power Engineering Institute	Russian Federation
			Ali	Yousef	Moscow Power Engineering Institute	Russian Federation
			Stolyarov	Evgeniy	Moscow Power Engineering Institute	Russian Federation
			Fedorova	Ksenia	Moscow Power Engineering Institute	Russian Federation
			Kulik	Egor	Moscow Power Engineering Institute	Russian Federation
			Anuchin	Alecksey	Moscow Power Engineering Institute	Russian Federation

18:15h	00938	T2.1-2	Induction Motor State Observer with Online Tuning of Main Parameters			
			Gulyaeva	Maria	Moscow Power Engineering Institute	Russian Federation
			Fedorova	Ksenia	Moscow Power Engineering Institute	Russian Federation
			Lashkevich	Maxim	Moscow Power Engineering Institute	Russian Federation
			Kulik	Egor	Moscow Power Engineering Institute	Russian Federation
			Aliamkin	Dmitry	Moscow Power Engineering Institute	Russian Federation
			Anuchin	Alecksey	Moscow Power Engineering Institute	Russian Federation
18:30h	01038	T2.1-3	Improved Stator Flux Estimation in Sensorless AC Motor Drives Using Extended SOGI			
			Stojić	Djordje	University of Belgrade, Electrical Institute Nikola Tesla	Serbia
			Veinović	Slavko	University of Belgrade, Electrical Institute Nikola Tesla	Serbia
			Ivanović	Luka	University of Belgrade, Electrical Institute Nikola Tesla	Serbia
18:45h	02838	T2.1-4	Increase in Efficiency of PMSM Drive Using Supercapacitor Storage			
			Banović	Milica	University of Belgrade, School of Electrical Engineering	Serbia
			Despotović	Željko	University of Belgrade, Institute Mihjalo Pupin	Serbia
			Jerkan	Dejan	University of Novi Sad, Faculty of Technical Sciences	Serbia
19:00h	05838	T2.1-5	Sensorless Control of Electrically Excited Synchronous Machines Using Moving Horizon Estimation Considering Nonlinear Flux Linkage			
			Pang	Yuebin	BMW AG	Germany
			Knezevic	Jovan	BMW AG	Germany
			Glose	Daniel	BMW AG	Germany
			Hackl	Christoph	University of Applied Sciences, Hochschule München (HM)	Germany
20:00h			Awards and Gala Diner		Restaurant "Alaska Barka", Novi Sad	
Saturday, 28 Oct. 2023.						
Venue: Novi Sad, Science and Technology Park (STP)						
08:00h			NOVI SAD Registration desk opens			
08:30 - 11:30h	TT-1:		Tutorial 1			Science and Technology Park (STP) - Hall 2
	Chair:		TBD			
			Darko Vračar			
			BRUSA Elektronik (München) GmbH, Munich, Germany			
			"Development of Power Electronics Hardware in Industrial and Automotive Environments"			
10:00h			Coffee Break			
10:30h	PLENARY Session - IL2		Invited papers/lectures (cont.)			STP - Hall 1
	Chair:		TBD			
	Co-chair:		TBD			
			TBD			
12:00 - 13:00h			Serbia Power Electronics Society Annual Meeting			STP - Hall 1
			Prof. Katić	Vladimir	President of the Serbian Power Electronics Society, Novi Sad	
13:00h			CLOSING			STP - Hall 1