

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. 11, 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 (Coffee Break at 11:30h)			Science and Technology Park (STP) - Hall 2
		Chair:	Barbara Vujkov, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia			
			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 (Coffee Break at 11:30h)			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			
	IP0.1		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	Brose Presentation			
		TBD	Brose d.o.o., Pančevo		Serbia
	IS1.4	Infineon Presentation			
		TBD	Infineon		Austria
13:30h - 13:50h	Coffee Break				
13:50 - 16:00h	IS2	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	Bosch Presentation			
		TBD	Bosch		Serbia
	IS2.2	Continental Presentation			
		TBD	Continental, Novi Sad		Serbia
	IS2.3	Mind Park Presentation			
		TBD	Mind Park, Kragujevac		Serbia
	IS2.4	Origin / Nova Zona Presentation			
		TBD	Origin / Nova Zona Pančevo		Serbia
	IS2.5	Electrical Institute Nikola Tesla			
		TBD	University of Belgrade, Electrical Institute Nikola Tesla		Serbia
	IS2.6	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		Electrical 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	Leposava	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
11:30h	05138	T1.2-6	Hardware-in-the-Loop Simulation of a Virtual Synchronous Motor		
			Tanasic	Mihailo	University of Belgrade, School of Electrical Engineering Serbia
			Brkovic	Bogdan	University of Belgrade, School of Electrical Engineering Serbia
			Majstorovic	Milovan	University of Belgrade, School of Electrical Engineering Serbia
			Ristic	Leposava	University of Belgrade, School of Electrical Engineering Serbia
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		Electrical 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	Serbia
			Iričanin Bratislav University of Belgrade, School of Electrical Engineering	Serbia
			Reljić Dejan University of Novi Sad, Faculty of Technical Sciences	Serbia
			Jerkan Dejan University of Novi Sad, Faculty of Technical Sciences	Serbia
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	Serbia
			Popovic Vladimir University of Novi Sad, Faculty of Technical Sciences	Serbia
			Vuckovic Mladen University of Novi Sad, Faculty of Technical Sciences	Serbia
			Marcetic Darko University of Novi Sad, Faculty of Technical Sciences	Serbia
			Jerkan Dejan University of Novi Sad, Faculty of Technical Sciences	Serbia
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	China
			Hu Jiangpeng China University of Mining and Technology, School of Electrical Engineering	China
			Chen Hao China University of Mining and Technology, School of Electrical Engineering	China
			Li Hailong China University of Mining and Technology, School of Electrical Engineering	China
			Yu Fengyuan China University of Mining and Technology, School of Electrical Engineering	China
			Wang Qing Nanchang University, School of Information Engineering	China
11:00h	03138	T3.2-4	Three-phase Biaxial Excitation Synchronous Generator (BEGA) intern-fault experimental characterisation	
			Khodabux Kaleem Université des Mascareignes Roches Brunes	Mauritius
			Martin Adrian Daniel University Politehnica Timisoara	Romania
			Vitan Liviu - Dănuț University Politehnica Timisoara	Romania
			Tutelea Lucian - Nicolae University Politehnica Timisoara, Romanian Academy-Timisoara Branch Timisoara	Romania
			Busawon Krishna Northumbria University Newcastle upon Tyne, United Kingdom	Mauritius
			Boldea Ion University Politehnica Timisoara, Romanian Academy-Timisoara Branch Timisoara	Romania
11:15h	00338	T3.2-5	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	China
			Chen Hao China University of Mining and Technology, School of Electrical Engineering	China
			Yan Wenju China University of Mining and Technology, School of Electrical Engineering	China
			Do Ton Duc Nazarbayev University	Kazakhstan
			Shamiev Murat Tashkent State Technical University	Uzbekistan
			Tairov Yokub Tashkent State Technical University	Uzbekistan
			Aguirre Miguel Pablo Instituto Tecnológico de Buenos Aires	Argentina
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
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
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
16:50h	06838	IP2.2	Next Generation of High Power Density On-board Chargers for Electric Vehicle Systems	
		Pacini	Alex	Infineon Technologies Austria AG, Villach
		Kasper	Matthias	Infineon Technologies Austria AG, Villach
		Pevere	Alessandro	Infineon Technologies Austria AG, Villach
		Deboy	Gerald	Infineon Technologies Austria AG, Villach

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
			Grabčić	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 Fedorova Lashkevich Kulik Aliamkin Anuchin	Maria Ksenia Maxim Egor Dmitry Alecksey	Moscow Power Engineering Institute Moscow Power Engineering Institute Moscow Power Engineering Institute Moscow Power Engineering Institute Moscow Power Engineering Institute Moscow Power Engineering Institute	Russian Federation Russian Federation Russian Federation Russian Federation Russian Federation Russian Federation
18:30h	01038	T2.1-3	Improved Stator Flux Estimation in Sensorless AC Motor Drives Using Extended SOGI	Stojić Veinović Ivanović	Djordje Slavko Luka	University of Belgrade, Electrical Institute Nikola Tesla University of Belgrade, Electrical Institute Nikola Tesla University of Belgrade, Electrical Institute Nikola Tesla	Serbia Serbia Serbia
18:45h	02838	T2.1-4	Increase in Efficiency of PMSM Drive Using Supercapacitor Storage	Banović Despotović Jerkan	Milica Željko Dejan	University of Belgrade, School of Electrical Engineering University of Belgrade, Institute Mihjalo Pupin University of Novi Sad, Faculty of Technical Sciences	Serbia Serbia Serbia
19:00h	05838	T2.1-5	Sensorless Control of Electrically Excited Synchronous Machines Using Moving Horizon Estimation Considering Nonlinear Flux Linkage	Pang Knezevic Glose Hackl	Yuebin Jovan Daniel Christoph	BMW AG BMW AG BMW AG University of Applied Sciences, Hochschule München (HM)	Germany Germany Germany 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 (Coffee Break at 10:00h)				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

XXII Savetovanje Energetska elektronika - Ee 2023
Preliminarni Program / Preliminary Program

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Postavljeno: 11.10.2023.

Sreda, 25 Okt. 2023.

PO PROGRAMU ZA 22nd INTERNATIONAL SYMPOSIUM on POWER ELECTRONICS

Četvrtak, 26 Okt. 2023.

PO PROGRAMU ZA 22nd INTERNATIONAL SYMPOSIUM on POWER ELECTRONICS

Petak, 27 Okt. 2023.

PO PROGRAMU ZA 22nd INTERNATIONAL SYMPOSIUM on POWER ELECTRONICS

Subota, 28 Okt. 2023.

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

08:00 REGISTRACIJA

	Id rada	Tema	Naslov rada i Autori	Država / Mesto
08:30h	SESIJA - S1		ENERGETSKA ELEKTRONIKA I SRODNE OBLASTI	NTP - Sala 1
		Predsed.:	Goce Arsov, Univerzitet Sv. Kiril i Metodij, Skoplje, Severna Makedonija	
		Ko-Predsed.:	Zoltan Čorba, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad, Srbija	
08:30h	00439	S1-1	50 GODINA SKUPOVA ENERGETSKA ELEKTRONIKA	
			Katić Vladimir Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad	Srbija
			Nikolić Dragomir Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad	Srbija
			Čorba Zoltan Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad	Srbija
			Stanisavljević Aleksandar Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad	Srbija
			Cvetičanin Stevan Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad	Srbija
			Gerić Ljubinka Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad	Srbija
			Galić Jadranka Društvo za energetska elektroniku, Novi Sad	Srbija
08:45H	00539	S1-2	ZNAČAJ I UTICAJ SKUPOVA ENERGETSKA ELEKTRONIKA	
			Katić Vladimir Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad	Srbija
			Nikolić Dragomir Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad	Srbija
			Čorba Zoltan Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad	Srbija
			Stanisavljević Aleksandar Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad	Srbija
			Cvetičanin Stevan Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad	Srbija
			Gerić Ljubinka Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad	Srbija
			Galić Jadranka Društvo za energetska elektroniku, Novi Sad	Srbija
09:00H	00239	S1-3	KARAKTERIZACIJA POTISKIVAČA ZAJEDNIČKIH SMETNJI KORIŠĆENJEM ANALIZATORA SPEKTRA	
			Damjanović Mirjana Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad	Srbija
			Kisić Milica Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad	Srbija

09:15H 00339	S1-4	PROJEKTANT KAO BALANS IZMEĐU ŽELJA INVESTITORA I TEHNIČKIH MOGUĆNOSTI IZGRADNJE FOTONAPONSKIH ELEKTRANA		
		Čorba	Zoltan	Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad
		Milićević	Dragan	Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad
		Popadić	Bane	Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad
		Dumnić	Boris	Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad
		Cvetičanin	Stevan	Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad
09:30h 00139	S1-5	PRELAZNI REŽIMI PRILIKOM ENERGIJIZACIJE TRANSFORMATORA I KABLA		
		Milanković	Filip	Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad
09:45h 00639	S1-6	NAUČNI SKUPOVI I INDIKATORI PRAĆENJA NJIHOVOG UTICAJA		
		Katić	Vladimir	Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad
10:00h		Pauza za osveženje		
12:00 - 13:00h		GODIŠNJA SKUPŠTINA DRUŠTVA ZA ENERGETSKU ELEKTRONIKU		
		Prof. Katić	Vladimir	Predsednik Društva za energetska elektroniku, Novi Sad
13:00h		ZATVARANJE SKUPA		

NTP - Sala 1

NTP - Sala 1