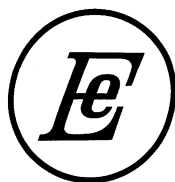




PROGRAM



2015

*18th INTERNATIONAL SYMPOSIUM
POWER ELECTRONICS - Ee 2015*

*XVIII SAVETOVANJE
ENERGETSKA ELEKTRONIKA - Ee 2015*

October 28 - 30, 2015

NOVI SAD, SERBIA



**18th INTERNATIONAL SYMPOSIUM
POWER ELECTRONICS - Ee 2015
NOVI SAD, SERBIA, October 28 – 30, 2015**

Uredio : Prof. Dr. Vladimir Katić

Tehnički obradio: mr Zoltan Čorba, Nikolić Dragomir

Štampa: GRID FTN, Novi Sad

Tiraž 180 primeraka

**Izdavač: Društvo za energetske elektroniku,
Fakultet tehničkih nauka**

Novi Sad, 2015



**18th INTERNATIONAL SYMPOSIUM
POWER ELECTRONICS - Ee 2015
NOVI SAD, SERBIA, October 28 – 30, 2015**

INVITATION FROM THE SYMPOSIUM CHAIR



It is a great honour for me to invite you to the 18th International Symposium on Power Electronics – Ee2015, organized by the University of Novi Sad–Faculty of Technical Sciences, Electrical Engineering Institute “Nikola Tesla”, Belgrade, Serbian Power Electronics Society and Novi Sad Fair in Novi Sad, Serbia. Please, join us for three days of lectures, presentations and discussions of state-of-the-art topics of power electronics and related fields.

Power electronics is one of the most propulsive branches of electrical engineering and Novi Sad is an active and peaceful city, place where the only University campus in Serbia is located.

Symposium “Power Electronics”, widely known as Ee, is now in its forties – it is 42 years from its first edition in Belgrade in 1973. Still it is a young, full of new ideas, but enriched with experience and tradition, excellent meeting place for researchers, university professors, engineers, manufacturers, students and other experts in the field of Power Electronics and surrounding areas.

The 18th symposium papers are coming from 269 authors & coauthors of 20 countries: Belgium, Bosnia & Herzegovina, Bulgaria, Canada, Croatia, France, Germany, Hong Kong, Iraq, Iran, Israel, Japan, Macedonia, Norway, Poland, Romania, Serbia, Ukraine, United Kingdom and USA. All papers have passed through reviewing process by the International Program Committee and technical adjustment by the Secretariat. From 102 submitted, 78 (76%) have been accepted, while 75 (73%) will be presented in international (71 papers) and national (4 papers) program.

As parallel events, IEEE PELS Region 8 Chapter Chairs Meeting, IEEE Joint Chapter of the PELS/IAS/IES meeting, XVIII National Conference “Energetska elektronika” (in Serbian language) and Serbian Power Electronics Society Assembly will be held, also.



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Sadly, between two symposiums two of our great friends and distinguished members, Academician Prof. Dr. Petar Miljanić and Prof. Dr. Istvan Nagy have passed away. Their deaths present a great loss for the academic and scientific community, their colleagues and family.

Wide interest in power electronics and related topics (electric drives, electrical machines, microelectronics, measurement and control, simulation and modelling, power systems, power generation and others) and high quality of accepted papers are guarantee that the 18th International Symposium will be successful, also, and will contribute to further development of this propulsive field.

Prof. Dr. Vladimir Katić

Ee 2015 Chairman &

President of the Serbian Power Electronics Society





**18th INTERNATIONAL SYMPOSIUM
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Organized by



POWER ELECTRONICS SOCIETY
Trg Dositeja Obradovića 6, 21000 Novi Sad, Serbia
Tel. +381-21-450-032 Fax. +381-21-4750-572



INSTITUTE 'NIKOLA TESLA'
Koste Glavinica 8a, 11000 Belgrade, Serbia
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UNIVERSITY OF NOVI SAD
FACULTY OF TECHNICAL SCIENCES
Trg Dositeja Obradovića 6, 21000 Novi Sad, Serbia
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NOVI SAD FAIR
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IEEE – Serbia and Montenegro Section, Belgrade
IEEE – Joint Chapter IAS/IES/PELS, Novi Sad



Serbian Academy of Science and Art, Belgrade



Chamber of Engineering Of Serbia, Belgrade



GENERAL INFORMATION

VENUE

*University of Novi Sad – Central Building
Zorana Đinđića 1
21000 Novi Sad.*

PUBLICATIONS

Printed: *Ee 2015 - Book of Abstracts*
Electronic: ***USB FLASH MEMORY: Ee 2015 – Proceedings***

REGISTRATION FEE:

Full Registration Fee: ***250 €***

- *Participation in the Symposium*
- *Proceedings – hard copy: Paper Abstracts - Booklet*
- *Proceedings - electronic version: Full Papers – USB flash*
- *Cocktail and Refreshments*
- *Gala Dinner*

METHOD OF PAYMENT

Registration fee can be paid by money transfer or by credit card. For details please refer to our web site.

SOCIAL ACTIVITIES

Apart from regular refreshments during the symposium, welcome cocktail and gala dinner will be served.

LANGUAGE

English.



**18th INTERNATIONAL SYMPOSIUM
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INFORMATION

Ee 2015 - Secretariat

Tel.: + 381-21-450-810, +381-21-485-2546

Fax: + 381-21-458-133

E-mail: dee@uns.ac.rs

www.dee.uns.ac.rs





**18th INTERNATIONAL SYMPOSIUM
POWER ELECTRONICS - Ee 2015
NOVI SAD, SERBIA, October 28 – 30, 2015**

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19. Prof. dr Emil Levi, Liverpool John Moores University, Liverpool, UK
20. Prof. dr Louis Martinez-Salamero, Rovira i Virgili University, Tarragona, Spain
21. Prof. dr Jovica Milanović, The University of Manchester, Manchester, UK
22. Academician Prof. dr Petar Miljanić, Serbian Academy of Science and Art, Belgrade, Serbia
23. Prof. dr Istvan Nagy, Budapest University of Technology and Economics, Budapest, Hungary
24. Dr Aleksandar Nikolić, Institute "Nikola Tesla", Belgrade, Serbia
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26. Prof. dr Nebojša Mitrović, University of Niš, Niš, Serbia
27. Prof. dr Predrag Pejović, University of Belgrade, Belgrade, Serbia



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28. Prof. dr Juan Peracaula, UPC-Polytechnical University of Catalonia, Barcelona, Spain
29. Prof. dr Dragan Petrović, University of Belgrade, Belgrade, Serbia
30. Prof. Aleksandar Prodić, University of Toronto, Canada
31. mr Jovan Radaković, EPS, Subotica, Serbia
32. Prof. dr Milan Radmanović, University of Niš, Niš, Serbia
33. Prof. dr Mincho Simeonov, Technical University of Gabrovo, Gabrovo, Bulgaria
34. Assoc. Prof. dr Dragan Simić, University of Novi Sad, Novi Sad, Serbia
35. Prof. dr Aleksandar M. Stanković, Tufts University, Boston, USA
36. Prof. dr Vojislav Stefanović, V-S Drives, New York, USA
37. Prof. dr Milić Stojić, University of Belgrade, Belgrade, Serbia
38. Prof. dr Zoran Stojiljković, University of Belgrade, Belgrade, Serbia
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40. Prof. dr Veran Vasić, University of Novi Sad, Novi Sad, Serbia
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42. Prof. dr Slobodan Vukosavić, University of Belgrade, Belgrade, Serbia
43. Prof. dr Miloš Živanov, University of Novi Sad, Novi Sad, Serbia

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8. dr Boris Dumnić, University of Novi Sad, Novi Sad, Serbia
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Mr Zoltan Čorba, Nikola Janičijević
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Ee 2015 Secretariat

Ljubinka-Buba Gerić, Jadranka Galić,
Dragomir Nikolić, Nikola Janičijević, Zoltan Čorba



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TECHNICAL PROGRAM

Venue:

UNIVERSITY OF NOVI SAD – CENTRAL BUILDING

AMPHITHEATER – Ground floor

HALL 1 – First floor



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CONCISE PROGRAM - PREGLEDNI PROGRAM

WEDNESDAY – SREDA Oct. 28, 2015 – 28. 10. 2015.		
Venue: University of Novi Sad, Central Building		
10 ⁰⁰ – 17 ⁰⁰ h	REGISTRATION – REGISTRACIJA	
11 ⁰⁰ – 12 ³⁰ h	AMPHITHEATER PRE-CONFERENCE EVENTS Meeting of the IEEE Joint Chapter of ELS/IES/IAS	
12 ⁰⁰ h	ARRIVAL REFRESHMENT - OSVEŽENJE	
12 ³⁰ – 13 ⁰⁰ h	AMPHITHEATER OPENING CEREMONY	
13 ⁰⁰ – 14 ⁰⁰ h	AMPHITHEATER KEY-NOTES PAPERS IP1 (English)	
14 ⁰⁰ – 15 ⁰⁰ h	LUNCH BREAK – PAUZA ZA RUČAK	
15 ⁰⁰ – 16 ³⁰ h	AMPHITHEATER T1 (English) POWER CONVERTERS & DEVICES	HALL 1 T5 / T6 (English) POWER ELECTRONICS IN TELECOM. POWER QUALITY
16 ³⁰ – 16 ⁴⁵ h	REFRESHMENT – OSVEŽENJE	
16 ⁴⁵ – 18 ⁴⁵ h	AMPHITHEATER T2 (English) AUTOMOTIVE & INDUSTRIAL DRIVES	HALL 1 T7 (English) RENEWABLE & DISTRIBUTED ENERGY SOURCES
19 ⁰⁰ h	WELCOME RECEPTION	



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THURSDAY – ČETVRTAK Oct. 29, 2015 – 29. 10. 2015.					
Venue: University of Novi Sad, Central Building					
09 ⁰⁰ – 17 ⁰⁰ h	REGISTRATION – REGISTRACIJA				
9 ¹⁵ – 10 ⁴⁵ h	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 50%;">AMPHITHEATER T3 (English)</td> <td style="text-align: center; width: 50%;">HALL 1 T4-1 (English)</td> </tr> <tr> <td style="text-align: center;">ELECTRICAL MACHINES</td> <td style="text-align: center;">CONTROL & MESUREMENT IN POWER ELECTRONICS-1</td> </tr> </table>	AMPHITHEATER T3 (English)	HALL 1 T4-1 (English)	ELECTRICAL MACHINES	CONTROL & MESUREMENT IN POWER ELECTRONICS-1
AMPHITHEATER T3 (English)	HALL 1 T4-1 (English)				
ELECTRICAL MACHINES	CONTROL & MESUREMENT IN POWER ELECTRONICS-1				
10 ⁴⁵ h	REFRESHMENT – OSVEŽENJE				
11 ⁰⁰ – 12 ³⁰ h	AMPHITHEATER PLENARY SESSION IP2 (English) INVITED PAPERS				
12 ³⁰	REFRESHMENT – OSVEŽENJE				
12 ⁴⁵ – 14 ⁰⁰ h	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 50%;">AMPHITHEATER T4-2 (English)</td> <td style="text-align: center; width: 50%;">HALL 1 S1 (Serbian)</td> </tr> <tr> <td style="text-align: center;">CTRL & MES. IN POWER ELE.-2</td> <td style="text-align: center;">ELEKTRIČNI POGONI I OBNOVLJIVI IZVORI</td> </tr> </table>	AMPHITHEATER T4-2 (English)	HALL 1 S1 (Serbian)	CTRL & MES. IN POWER ELE.-2	ELEKTRIČNI POGONI I OBNOVLJIVI IZVORI
AMPHITHEATER T4-2 (English)	HALL 1 S1 (Serbian)				
CTRL & MES. IN POWER ELE.-2	ELEKTRIČNI POGONI I OBNOVLJIVI IZVORI				
14 ⁰⁰ – 15 ⁰⁰ h	LUNCH BREAK – PAUZA ZA RUČAK				
15 ⁰⁰ – 16 ⁴⁵ h	GROUND FLOOR HALL DS1 (English) DIALOGUE SESSION				
16 ⁴⁵ h	REFRESHMENT – OSVEŽENJE				
17 ⁰⁰ – 18 ⁰⁰ h	AMPHITHEATER / IP3 (English) INVITED PAPERS				
18 ⁰⁰ – 18 ³⁰ h	AMPHITHEATER / IND1 (English) INDUSTRY SESSION: HIL in Power Electronics				
18 ³⁰ h	ASSEMBLY OF SERBIAN POWER ELECTRONICS SOCIETY				
20 ⁰⁰ h	GALA DINNER				



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FRIDAY – PETAK Oct. 30, 2015 – 30. 10. 2015.	
Venue: University of Novi Sad, Central Building	
09 ⁰⁰ – 10 ³⁰ h	REGISTRATION – REGISTRACIJA
9 ⁰⁰ – 10 ⁰⁰ h	AMPHITHEATER / OKRUGLI STO S2 (Serbian) ENERGETSKA ELEKTRONIKA
10 ⁰⁰ – 11 ⁰⁰ h	AMPHITHEATER / SESSION IP4 (English) INVITED PAPERS
11 ⁰⁰ h	REFRESHMENT – OSVEŽENJE
11 ¹⁵ - 14 ⁰⁰ h	HARD & SOFT STUDENT COMPETITION FINAL PRESENTATIONS AWARD CEREMONY
14 ¹⁵ h	CLOSING



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DETAILED PROGRAM

WEDNESDAY – SREDA

English	PRE-CONFERENCE EVENTS
AMPHITHEATER 11:00-12:30	WEDNESDAY – SREDA Oct. 28, 2015 – 28. 10. 2015.
Meeting of the IEEE Joint Chapter of PELS/IES/IAS	
Prof. Ralph Kennel, IEEE PELS Distinguished Lecturer	PREDICTIVE CONTROL - THE POWERFUL METHOD TO CONTROL POWER CONVERTERS AND DRIVES IN THE FUTURE

PLENARY SESSION English	OPENING CEREMONY
AMPHITHEATER 12:30-13:00	WEDNESDAY – SREDA Oct. 28, 2015 – 28. 10. 2015.
Chairmen:	Prof. Vladimir Katić, dr Aleksandar Nikolić, Prof. Goce Arsov
	Greetings of the President of the Power Electronics Society Musical Intermezzo

PLENARY SESSION IP1 English	KEY-NOTE PAPERS
AMPHITHEATER 13:00-14:00	WEDNESDAY Oct. 28, 2015 – 28. 10. 2015.
Chairmen:	Prof. Vladimir Katić, dr Žarko Janda
IP1-1 Grbović Petar	Germany
IP1-2 Graovac Dušan	Germany
	POWER CONVERSION YESTERDAY, TODAY AND TOMORROW: ISSUES, TRENDS AND SOLUTIONS
	48V HYBRID SYSTEMS A LOOK FROM THE SEMICONDUCTOR PERSPECTIVE



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SESSION T1 English		POWER CONVERTERS AND DEVICES
AMPHITHEATER 15:00-16:30		WEDNESDAY – SREDA Oct. 28, 2015 – 28. 10. 2015.
Chairmen:		Prof. Denis Pelin, Ass. Prof. Marko Vekić
T1-1 Pelin Denis, Biondić Ivan, Brnjevarac Igor	Croatia Croatia Croatia	EXPERIMENTAL BIFURCATION DIAGRAMS OF A NON-ISOLATED DC-DC CONVERTERS
T1-2 Marković Petar, Lepojević Nikola, Popov Nikola, Vukosavić Slobodan	Serbia Serbia Serbia Serbia	A COMPACT ISOLATED POWER SUPPLY FOR MV SIC MOSFET GATE DRIVER
T1-3 Jeftenić Borislav, Bebić Milan, Mihailović Ilija, Rašić Neša, Štatić Saša, Aleksandrović Snežana, Jeftenić Ilija, Jevtić Dragan, Ristić Lepasava	Serbia Serbia Serbia Serbia Serbia Serbia Serbia Serbia Serbia	POWER CONVERTERS ON MINING MACHINES
T1-4 Vukadinović Nenad, Prodić Aleksandar, Miwa Brett, Arnold Cory, Baker Michael	Canada Canada United States United States United States	VOLUME AND EFFICIENCY COMPARISON BETWEEN MULTI-LEVEL DC-DC CONVERTERS AND BUCK CONVERTER FOR LOW-POWER MOBILE APPLICATIONS
T1-5 Stanković Nikola, Arzandé Amir, Bergna Gilbert, Berne Erik, Egrot Philippe, Vannier Jean-Claude	France France Norway France France France	REALIZATION OF AN HVDC EXPERIMENTAL PLATFORM WITH MODULAR MULTILEVEL CONVERTER AND TWO-LEVEL VOLTAGE SOURCE CONVERTER
T1-6 Antić Radoslav Nikolić Aleksandar Janda Žarko	Serbia Serbia Serbia	POWER-FREQUENCY CONTROL OF ENERGY STORAGE INVERTER ANALYZED USING HIL



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SESSION T5		POWER ELECTRONICS IN TELECOMMUNICATIONS
English		
HALL 1 15:00-15:15	WEDNESDAY – SREDA Oct. 28, 2015 – 28. 10. 2015.	
Chairmen:	Prof. Predrag Pejović, Prof. Miroslav Prša	
T5-1 Tal Nikolay, Morag Yahav, Levron Yoash	Israel Israel Israel	REACTIVE POWER OPTIMIZATION OF INDUCTION TRANSMITTERS

SESSION T6		POWER QUALITY
English		
HALL 1 15:15-16:30	WEDNESDAY – SREDA Oct. 28, 2015 – 28. 10. 2015.	
Chairmen:	Prof. Predrag Pejović, Prof. Miroslav Prša	
T6-1 Mitrović Vladimir, Mijalković Milan, Grujić Aleksandra	Serbia Serbia Serbia	MONOPHASE POWER QUALITY ANALYZER
T6-2 Simić Milan, Mijlković Goran, Denić Dragan, Živanović Dragan	Serbia Serbia Serbia Serbia	DEVELOPMENT OF ACQUISITION SYSTEM FOR MONITORING OF ELECTRICAL POWER QUALITY
T6-3 Stanojević Miroslav, Kasaš-Lažetić Karolina, Prša Miroslav	Germany Serbia Serbia	SWITCHING SIMULATION APPLYING EXPLICIT RUNGE – KUTTA METHODS
T6-4 Stanisavljević Aleksandar, Katić Vladimir, Popadić Bane, Dumnić Boris, Kovačević Ilija	Serbia Serbia Serbia Serbia Serbia	GRID CONNECTED INVERTER CURRENT HARMONICS DURING FAULTS IN THE NETWORK
T6-5 Pejović Predrag, Simić Mirjana	Serbia Serbia	A SYSTEM FOR MEASURING MAINS VOLTAGE PARAMETERS AND LOGGING THE DATA



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SESSION T2 English		AUTOMOTIVE AND INDUSTRIAL DRIVES
AMPHITHEATER 16:45-18:45		WEDNESDAY – SREDA Oct. 28, 2015 – 28. 10. 2015.
Chairmen:		Ass. Prof. Boris Dumnić, Ass. Prof. Ivan Subotić
T2-1 Brković Bogdan, Kvašček Goran, Bebić Milan	Serbia Serbia Serbia	MODEL PREDICTIVE CONTROLLER FOR FLYING SHEAR APPLICATION
T2-2 Tošić Nikola, Rangelov Zdravko, Bebić Milan, Ristić Leposava, Dimitrijević Vladan, Radosavljević Vladimir, Mehandžić Stevan	Serbia Serbia Serbia Serbia Serbia Serbia Serbia	MODELING AND CONTROL STRATEGIES FOR LOAD SHARING IN STRIP PROCESSING APPLICATION
T2-3 Subotić Ivan, Bodo Nandor, Levi Emil, Dumnić Boris, Milicević Dragan, Katić Vladimir	United Kingdom United Kingdom United Kingdom Serbia Serbia Serbia	AN INTEGRATED MULTIPHASE SYSTEM FOR SLOW AND FAST EV BATTERY CHARGING
T2-4 Mircevski Slobodan, Vidanovski Dragan, Digalovski Mihail, Rafajlović Goran	Macedonia Macedonia Macedonia Macedonia	TOTAL POWER CONSUMPTION IN CONSTANT SPEED ELECTRIC DRIVE WITH INDUCTION MOTOR (PART 1)
T2-5 Mircevski Slobodan, Vidanovski Dragan, Digalovski Mihail, Rafajlović Goran	Macedonia Macedonia Macedonia Macedonia	TOTAL POWER CONSUMPTION IN ADJUSTABLE SPEED DRIVE (ASD) WITH INDUCTION MOTOR (PART 2)
T2-6 Matić Petar, Vukosavić Slobodan	Bosnia and Herzegovina Serbia	A HIGH PERFORMANCE DTC OF INDUCTION MACHINE BASED ON STATOR FLUX ANGLE CONTROL
T2-7 Vekić Marko, Adžić Evgenije, Porobić Vlado, Rapačić Milan, Grabić Stevan, Ivanović Zoran	Serbia Serbia Serbia Serbia Serbia Serbia	POWER ELECTRONICS COMPREHENSIVE PLATFORM FOR CONTROL DEVELOPMENT AND EDUCATION



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T2-8 Dumnić Boris, Popadić Bane, Milicević Dragan, Katić Vladimir, Subotić Ivan, Nandor Bodo, Levi Emil	Serbia Serbia Serbia Serbia United Kingdom United Kingdom United Kingdom	LABORATORY TEST BENCH FOR MULTI-PHASE MACHINES AND POWER ELECTRONICS IN ELECTRICAL VEHICLE APPLICATIONS
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SESSION T7 English		RENEWABLE AND DISTRIBUTED ENERGY
HALL 1 16:45-18:15		WEDNESDAY – SREDA Oct. 28, 2015 – 28. 10. 2015.
Chairmen:		Ass. Prof. Zoran Ivanović, Dr. Žarko Janda
T7-1 Ristić Leposava, Nikolić Aleksandar, Janda Žarko, Jeftenić Borislav	Serbia Serbia Serbia Serbia	NEW CONCEPT OF POWER GRIDS AS CYBER PHYSICAL SYSTEMS EMBEDDING POWER ELECTRONIC DEVICES
T7-2 Lazarević Vladan, Bjelica Milan, Pejović Predrag	Serbia Serbia Serbia	MAXIMUM POWER POINT TRACKING CONTROL SYSTEM OF PHOTOVOLTAIC MODULE USING FREE SOFTWARE AND STANDARD LABORATORY EQUIPMENT
T7-3 Pejović Predrag, Bjelica Milan	Serbia Serbia	A SIMPLE SYSTEM TO ESTIMATE ON-SITE SOLAR ENERGY HARVESTING
T7-4 Gadjeva Elissaveta, Hristov Marin	Bulgaria Bulgaria	PARAMETERIZED SPICE MODELS FOR COMPUTER SIMULATION OF PHOTOVOLTAIC ARRAYS UNDER PARTIAL SHADING
T7-5 Dinulovic Dragan, Shousa Mahmoud, Haug Martin, Gerfer Alexander, Petrovic Tomislav	Germany Germany Germany Germany Serbia	PUSH-BUTTON ROTATIONAL ELECTROMAGNETIC ENERGY HARVESTING GENERATOR
T7-6 Laušević Petar, Nikolić Vladimir, Marčeta Kaninski Milica, Bjelica Milan, Laušević Zoran, Pejović Predrag	Serbia Serbia Serbia Serbia Serbia Serbia	NOVEL THIN FILM SUPERCAPACITORS



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THURSDAY – ČETVRTAK

SESSION T3		ELECTRICAL MACHINES
English		
AMPHITHEATER 9:15-10:45	THURSDAY – ČETVRTAK Oct. 29, 2015 – 29. 10. 2015.	
Chairmen:	Prof. Boguslaw Grzesik, Ass. Prof. Dragan Milićević	
T3-1 Varga Jozsef, Jerkan Petar	Serbia Serbia	ADDITIONAL POWER LOSSES AND EFFICIENCY OF SYNCHRONOUS MACHINES
T3-2 Brković Bogdan, Petrović Dragan, Vasić Radenko	Serbia Serbia Serbia	DETERMINATION OF SYNCHRONOUS GENERATOR PARAMETERS USING THE FIELD CURRENT WAVEFORM
T3-3 Radaković Jovan, Popović Željko, Matejić Dragan	Serbia Serbia Serbia	SELECTION OF SIZE AND CLASS OF TRANSFORMERS IN DISTRIBUTION NETWORKS
T3-4 Stepien Mariusz, Grzesik Boguslaw, Kolodziej Henryk, Biskup Tomasz	Poland Poland Poland Poland	HF TRANSFORMER FOR TWO DIODE FULL- WAVE RECTIFIER
T3-5 Grzesik Boguslaw, Stepien Mariusz, Scierski Lukasz, Kaczmarczyk Zbigniew, Kasprzak Marcin	Poland Poland Poland Poland Poland	LEVITATION SYSTEM OF A LARGE METAL SPHERE
T3-6 Petrović Nenad, Janda Žarko, Jevtić Milan, Mihailović Dragan	Serbia Serbia Serbia Serbia	KLOSS FORMULA PARAMETRIZATION BY ANALYTICAL METHOD AT THREE MEASURING POINTS

SESSION T4-1		CONTROL AND MESUREMENT IN POWER ELECTRONICS - 1
English		
HALL1 9:15-10:45	THURSDAY – ČETVRTAK Oct. 29, 2015 – 29. 10. 2015.	
Chairmen:	Prof. Branko Blanuša, Ass. Prof. Evgenije Adžić	
T4.1-1 Nekoui Mohammad Ali, Pakzad Mohammad Ali	Iran Iran	STABILITY ANALYSIS OF A TIME-DELAYED FRACTIONAL-ORDER GENERATOR EXCITATION CONTROL SYSTEM



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T4.1-2 Lale Srđan, Šoja Milomir, Lubura Slobodan, Mančić Dragan	Bosnia and Herzegovina Bosnia and Herzegovina Bosnia and Herzegovina Serbia	COMPARATIVE ANALYSIS OF DIFFERENT CURRENT MODE CONTROL METHODS APPLIED ON THE BOOST CONVERTER
T4.1-3 Nekoui Mohammad Ali	Iran	HYBRID CONTROL SCHEME FOR THE SYNCHRONIZATION OF A TWO CHAOTIC DUFFING OSCILLATOR SYSTEM SUBJECT TO UNCERTAINTIES AND EXTERNAL DISTURBANCES
T4.1-4 Ninković Predrag	Serbia	REAL-TIME MAGNITUDE AND FREQUENCY ESTIMATION USING HALF-CYCLE DFT AND GEOMETRICAL APPROACH
T4.1-5 Diachenko Grygorii, Schullerus Gernot	Ukraine Germany	SIMPLE DYNAMIC ENERGY EFFICIENT FIELD ORIENTED CONTROL IN INDUCTION MOTORS
T4.1-6 Urekar Marjan, Radonjić Aleksandar, Vujičić Vladimir	Serbia Serbia Serbia	A GENERALIZED APPROACH TO STOCHASTIC MEASUREMENT OF POWER GRID FREQUENCY

PLENARY SESSION IP2 English	INVITED PAPERS	
AMPHITHEATER 11:00-12:30	THURSDAY – CETVRTAK Oct. 29, 2015 – 29. 10. 2015.	
Chairmen:	Prof. Aleksandar Prodić, Prof. Vladimir Katić	
IP2-1 Ahssanuzzaman S.M., McRae Timothy, Shousha Mahmoud, Radić Aleksandar, Prodić Aleksandar,	Canada Canada Canada Canada Canada	HIGH POWER DENSITY REDUCED VOLTAGE SWING TOPOLOGIES FOR LOW- POWER MOBILE APPLICATONS
IP2-2 Meynard Thierry, Prodić Aleksander, Sato Yukihiko	France Canada Japan	A SURVEY OF THE HISTORY OF FLYING CAPACITOR CONVERTERS
IP2-3 Jovanović Milutin, Ademi Sul, Chaal Hamza, Cao Wenping	United Kingdom United Kingdom United Kingdom United Kingdom	A COMPARATIVE STUDY OF ROBUST CONTROL TECHNIQUES FOR DOUBLY-FED RELUCTANCE GENERATORS



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SESSION T4-2 English	CONTROL AND MESUREMENT IN POWER ELECTRONICS - 2	
AMPHITHEATER 12:45-14:00	THURSDAY – CETVRTAK Oct. 29, 2015 – 29. 10. 2015.	
Chairmen:	Prof. Predrag Petrović, Prof. Vladimir Dimchev	
T4.2-1 Petrović Predrag, Župunski Ivan, Mitrović Zoran	Serbia Serbia Serbia	A NEW TUNABLE BIPOLAR CURRENT-MODE RMS TO DC CONVERTER
T4.2-2 Dimchev Vladimir, Kokolanski Zivko, Denić Dragan, Živanović Dragan, Simić Milan	Macedonia Macedonia Serbia Serbia Serbia	PERSONAL COMPUTER-BASED POWER QUALITY SIGNAL GENERATOR
T4.2-3 Herceg Dejana, Kasaš-Lažetić Karolina, Bajović Vera, Prša Miroslav	Serbia Serbia Serbia Serbia	MEASUREMENTS OF ALL THREE MAGNETIZATION CURVES
T4.2-4 Srbinovska Mare, Gavrovski Cvetan, Dimcev Vladimir, Kokolanski Zivko	Macedonia Macedonia Macedonia Macedonia	GREENHOUSE ENVIRONMENTAL MONITORING SYSTEM USING WIRELESS SENSOR NETWORKS
T4.2-5 Muhsen Hani, Hiller Sebastian	Germany Germany	A NEW STRATEGY FOR COMPENSATING THE DEAD-TIME IN CARRIER BASED PWM

SESIJA S1 Srpski	ENERGETSKA ELEKTRONIKA: ELEKTRIČNI POGONI I OBNOVLJIVI IZVORI	
HALA 1 12:45-13:45	THURSDAY – CETVRTAK Oct. 29, 2015 – 29. 10. 2015.	
Predsedavajući:	Dr. Jovan Radaković, Mr. Predrag Ninković	
S1-1 Blanuša Branko, Vuković Goran, Dumnić Boris, Popadić Bane	Bosna i Hercegovina Bosna i Hercegovina Srbija Srbija	PRIMJER REGULISANOG ELEKTROMOTORNOG POGONA SA POVEĆANOM ENERGETSKOM EFIKASNOSTI
S1-2 Čorba Zoltan, Katić Vladimir, Dumnić Boris, Miličević Dragan, Popadić Bane	Srbija Srbija Srbija Srbija Srbija	FOTONAPONSKA ELEKTRANA KAO ISTRAŽIVAČKA LABORATORIJA NA OTVORENOM



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S1-3 Petronijević Milutin, Anastasijević Ivan, Korunović Lidija	Srbija Srbija Srbija	ANALIZA HARMONIKA STRUJE U POGONU SA ASINHRONIM MOTOROM
S1-4 Dumnić Boris Vladimir Katić	Srbija Srbija	OBNOVLJIVI IZVORI I AKTIVNOSTI CRES PQ-a

SESSION DS1 English	DIALOGUE SESSION ON ALL TOPICS OF Ee2015	
GROUND FLOOR HALL 15:00-16:45	THURSDAY – ČETVRTAK Oct. 29, 2015 – 29. 10. 2015.	
Chairmen:	Ass. Prof. Stevan Grabić, Ass. Prof. Vlado Porobić	
DS1-T1-1 Mitić Darko, Almawlawe Muhanad, Antić Dragan, Milojković Marko	Serbia Iraq Serbia Serbia	AN APPROACH TO DESIGN OF DIGITAL SLIDING MODE CONTROL FOR BUCK- BOOST CONVERTER
DS1-T1-2 Todorović Ivan, Grabić Stevan, Ivanović Zoran, Porobić Vlado, Adžić Evgenije	Serbia Serbia Serbia Serbia Serbia	GRID CONNECTED INVERTER DC-LINK CHARGE ANALYSIS
DS1-T2-1 Rosić Marko, Bebić Milan, Djordjević Nikola, Jeftenić Borislav, Bjekić Miroslav	Serbia Serbia Serbia Serbia Serbia	TORQUE RIPPLE REDUCTION IN DTC WITH DISCRETIZED VOLTAGE INTENSITIES
DS1-T2-2 Popović Vladimir, Gecić Marko, Oros Djura, Marčetić Darko	Serbia Serbia Serbia Serbia	FULL ORDER IPMSM OBSERVER USING EXTENDED BACK-EMF IN STATIONARY REFERENCE FRAME
DS1-T2-3 Kerekes Aleksandar, Gecic Marko, Marcetic Darko	Serbia Serbia Serbia	A COMPUTER MODEL OF SUCKER ROD PUMP SYSTEM
DS1-T3-1 Jerkan Dejan, Miličević Dragan, Katić Vladimir, Greconici Marian	Serbia Serbia Serbia Romania	MCCA MODEL OF ASYMMETRICAL SIX- PHASE INDUCTION MACHINE
DS1-T4-1 Petrović Nenad, Pjevalica Velibor, Pjevalica Nebojša, Teslić Nikola	Serbia Serbia Serbia Serbia	ANALYSIS OF SYMMETRIC HYSTERESIS LOOP CURVES USING THE CHEBYSHEV NODES OF THE FIRST KIND



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DS1-T4-2 Milici L. Dan, Van Der Straeten Dires, Graur Adrian, Milici Mariana Rodica	Romania Belgium Romania Romania	COMPREHENSIVE MONITORING SYSTEM FOR AUTONOMOUS PV-SYSTEM
DS1-T4-3 Brkic Miodrag, Dogan Viktor, Obradović Djordje, Živanov Miloš	Serbia Serbia Serbia Serbia	DEVELOPMENT AND REALIZATION OF METEOROLOGICAL NETWORK FOR MEASURING AIR TEMPERATURE AND HUMIDITY
DS1-T4-4 Despotović Živadın, Rajs Vladimir, Živanov Miloš	Serbia Serbia Serbia	PID AUTOTUNING – RELAY FEEDBACK METHOD (ÅSTRÖM & HÄGGLUND METHOD)
DS1-T4-5 Constantinescu Claudia, Munteanu Calin, Racasan Adina, Pacurar Claudia	Romania Romania Romania Romania	NUMERICAL MODELING AND PRACTICAL REALISATION OF AN INDUCTION HEATING DEVICE
DS1-T4-6 Pacurar Claudia, Topa Vasile, Munteanu Calin, Racasan Adina, Constantinescu Claudia	Romania Romania Romania Romania Romania	THE OPTIMAL DESIGN OF THE GAPPED COIL FOR AN IMPOSED INDUCTIVITY
DS1-T4-7 Porobic Vlado, Rapaic Milan, Adzic Evgenije, Grabic Stevan, Vekic Marko, Ivanovic Zoran	Serbia Serbia Serbia Serbia Serbia Serbia	DSP BUILT-IN OSCILLOSCOPE FOR POWER ELECTRONICS APPLIANCE
DS1-T4-8 Malbasa Vuk, Zheng Ce, Kovačević Aleksandar, Kezunovic Mladen	Serbia United States Serbia United States	FULLY BAYESIAN STABILITY ESTIMATION USING MCMC
DS1-T4-9 Toader Dumitru, Blaj Constantin, Greconici Marian	Romania Romania Romania	STEP VOLTAGE FOR GROUNDING FAULT AT MEDIUM VOLTAGE OVERHEAD ELECTRIC LINES
DS1-T5-1 Milutinov Miodrag, Blaž Nelu, Živanov Ljiljana	Serbia Serbia Serbia	FERRITE CORE LOSS MEASUREMENT ISSUES AND TECHNIQUE
DS1-T5-2 Kunov Georgi, Brusev Tihomir, Gadjeva Elissaveta	Bulgaria Bulgaria Bulgaria	MULTIPHASE BUCK DC-DC CONVERTER WITH ZERO VOLTAGE SWITCHING



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DS1-T7-1 Mihajlović Živorad, Davidović Miloš, Šponja Luka, Tolić Miloš, Živanov Miloš	Serbia Serbia Serbia Serbia Serbia	MPPT-BASED SOLAR POWERED LEAD ACID CHARGER FOR TELEMETRY UNIT
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SESSION IP3	INVITED PAPERS	
English		
AMPHITHEATER 17:00-18:00	THURSDAY – ČETVRTAK Oct. 29, 2015 – 29. 10. 2015.	
Chairmen:	Prof. Emil Levi, Prof. Branko Dokić	
IP3-1 Gerfer Alexander	Germany	INVENTION OR INNOVATION? ALL THE SAME ?
IP3-2 Allard Bruno, Buttay Cyril, Martin Christian, Morel Hervé	France France France France	CONSIDERATIONS FOR HIGH TEMPERATURE POWER ELECTRONICS

SESSION IND1	INDUSTRY SESSION	
English	Hil in Power Electronics	
AMPHITHEATER 18:00-18:30	THURSDAY – ČETVRTAK Oct. 29, 2015 – 29. 10. 2015.	
Chairmen:	Prof. Emil Levi, Prof. Branko Dokić	
IND1-1 Genić Adrian	Serbia	REAL-TIME HARDWARE-IN-THE-LOOP SIMULATION FOR EMERGING HIGHLY DYNAMIC DISTRIBUTION GRID: TEST AND VERIFICATION OF GRID CONNECTED BATTERY, PV, WIND, AND FACTS CONVERTERS



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FRIDAY – PETAK

SESIJA S2 Serbian - Srpski	ENERGETSKA ELEKTRONIKA: OKRUGLI STO
AMPHITHEATER 9:00-10:00	FRIDAY – PETAK Oct. 30, 2015 – 30. 10. 2015.
Moderatori:	Prof. Dragan Šešlija, Prof. Slobodan Vukosavić
STRATEGIJA RAZVOJA NAUKE I OBLAST ENERGETSKE ELEKTRONIKE 2016 - 2020	

SESSION IP4 English	INVITED PAPERS	
AMPHITHEATER 10:00-11:00	FRIDAY – PETAK Oct. 30, 2015 – 30. 10. 2015.	
Chairmen:	Assoc. Prof. Darko Marčetić, Ass. Prof. Petar Matić	
IP4-1 Vukosavic Slobodan	Serbia	HIGH VOLTAGE DC-DC POWER CONVERTERS
IP4-2 Tam Hwayaw	Hong Kong	FIBER BRAGG GRATING SENSING NETWORKS FOR RAILWAY AND WIND TURBINE MONITORING

FRIDAY – PETAK Oct. 30, 2015 – 30. 10. 2015.	
AMPHITHEATER 11:15-14:00	HARD & SOFT STUDENT COMPETITION FINAL PRESENTATIONS AWARD CEREMONY
AMPHITHEATER 14:15	CLOSING SESSION
Chairmen:	Prof. Vladimir Katić
	CLOSING of the 18th International Symposium on Power Electronics



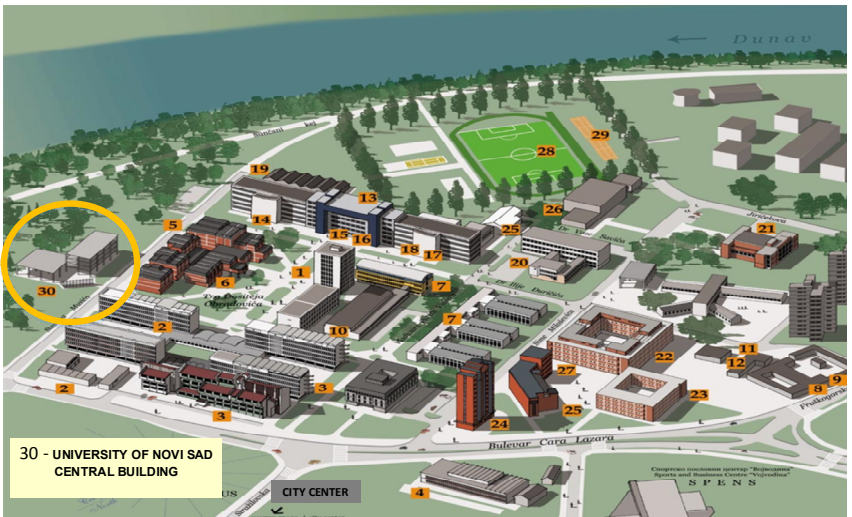
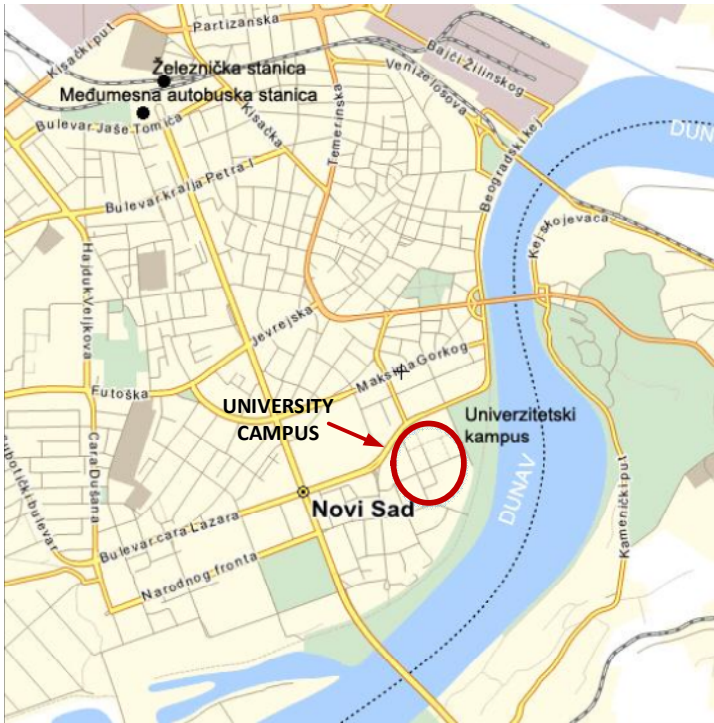
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