



Preliminary Program

8th International Conference – Workshop Compatibility and Power Electronics

June 5-7, 2013
Ljubljana, Slovenia

<http://cpe2013.fe.uni-lj.si>



Ljubljana – Old town



Lake Bled

WEDNESDAY, JUNE 5

8:30-9:00	Opening Ceremony	
9:00-10:00	Invited Lecture 1	
10:00-10:30	Coffee break	
10:30-12:30	Session 1.1 Power Quality 1	Session 1.2 Power Electronics 1
12:30-14:00	Lunch	
14:00-16:00	Session 1.3 EM Energy Conversion 1	Session 1.4 Special Power Electronic Applications 1
17:30	Guided tour to the Old town	
20:00	Welcome cocktail at hotel Lev	

THURSDAY, JUNE 6

9:00-10:00	Invited Lecture 2	
10:00-10:30	Coffee break	
10:30-12:30	Session 2.1 Power Quality 2	Session 2.2 Power Electronics 2 EMI&ESI Problems 1
12:30-14:00	Lunch	
14:00-16:00	Session 2.3 Power Quality 3	Session 2.4 Special Power Electronic Applications 2
18:45	Bus transfer to Lake Bled and Conference dinner	

FRIDAY, JUNE 7

9:00-10:00	Invited Lecture 3	
10:00-10:30	Coffee break	
10:30-12:00	Session 3.1 EM Energy Conversion 2	Session 3.2 Power Quality 4 EM Energy Conversion 3 Special Power Electronic Applications 3
12:15-12:30	Closing Ceremony	
12:30-14:00	Lunch	

Detailed PRELIMINARY CONFERENCE PROGRAM

Session 1.1	Power Quality 1	Wednesday, June 5, 2013 10:30 - 12:30, Room A
	Chairman: Dmitri Vinnikov	
LF-000035	Harmonics from Household Equipment and Different Lamp Technologies Dr. A. Gil-de-Castro, <i>Electronics and Electronic Technology Area, University of Cordoba, Cordoba, Spain</i> Dr. S.K. Rönnberg, <i>Power Engineering Group, Luleå University of Technology, Skellefteå, Sweden</i> Dr. M.H.J. Bollen, <i>Power Engineering Group, Luleå University of Technology, Skellefteå, Sweden</i> Dr. A. Moreno-Muñoz, <i>Electronics and Electronic Technology Area, University of Cordoba, Cordoba, Spain</i>	
LF-000051	Effect of Filter and Compensation Unit in the Traction Power Supply at Extreme Distortion Prof. Vaclav Kus, <i>University of West Bohemia in Pilsen, Czech Republic</i> Prof. Bohumil Skala, <i>University of West Bohemia in Pilsen, Czech Republic</i>	
LF-000078	Power Quality Events Detection Using Fourth-order Spectra Dr. Juan José González de la Rosa, <i>University of Cádiz, Spain</i> Mr. José María Sierra-Fernández, <i>University of Cádiz, Spain</i> Prof. Agustín Agüera-Pérez, <i>University of Cádiz, Spain</i> Prof. José Carlos Palomares-Salas, <i>University of Cádiz, Spain</i> Dr. Antonio Moreno-Muñoz, <i>University of Córdoba, Spain</i>	
LF-000167	Analysis and Development of Protection and Control Functions for Li-Ion Based Prosumers Provided by Low Voltage Part of Distribution Substation Mr. Tarmo Korõtko, <i>Tallinn University of Technology, Estonia</i> Mr. Marek Mägi, <i>Tallinn University of Technology, Estonia</i> Mr. Kristjan Peterson, <i>Tallinn University of Technology, Estonia</i> Dr. Raivo Teemets, <i>Tallinn University of Technology, Estonia</i> Dr. Elmo Pettai, <i>Tallinn University of Technology, Estonia</i>	
LF-000175	A Time Sequence Load-Flow Method for Steady-State Analysis in Heavily Meshed Distribution Network with DG Dr. Wieslaw Bury, <i>DeVry University, USA</i> Dr. Dariusz Czarkowski, <i>Polytechnic Institute of New York University, USA</i> Dr. Francisco de León, <i>Polytechnic Institute of New York University, USA</i> Mr. Li Yu, <i>Polytechnic Institute of New York University, USA</i>	
LF-000213	The Appearance of the Power Frequency Overvoltage in the Transmission Network Dr. Zijad Bajramović, <i>Faculty of Electrical Engineering University of Sarajevo, Bosnia and Herzegovina</i> Dr. Senad Hadžić, <i>Independent System Operator in B&H Sarajevo, Bosnia and Herzegovina</i> Dr. Meludin Veleđar, <i>Independent System Operator in B&H Sarajevo, Bosnia and Herzegovina</i> Mr. Omer Hadžić, <i>Independent System Operator in B&H Sarajevo, Bosnia and Herzegovina</i>	
LF-000221	A Standard-based Software Infrastructure to Support Weather Forecasting in Distributed Energy Systems Mr. José A. Oliveira-Lima, <i>Universidade Nova de Lisboa, Portugal</i> Mr. Vasco Delgado-Gomes, <i>Universidade Nova de Lisboa, Portugal</i> Dr. João Martins, <i>Universidade Nova de Lisboa, Portugal</i> Dr. Celson Lima, <i>Universidade Federal do Oeste do Pará, Santarém, Brazil</i> Dr. Enrique Romero-Cadaval, <i>University of Extremadura, Badajoz, Spain</i> Dr. Dmitri Vinnikov, <i>Tallinn University of Technology, Estonia</i>	

Session 1.2	Power Electronics 1	Wednesday, June 5, 2013 10:30 - 12:30, Room B
	Chairman: Valery Vodovozov	
LF-000507	Impact of Component Losses on the Efficiency of the LC-Filter Based Dual Active Bridge for the Isolation Stage of Power Electronic Transformer Mr. Viktor Beldjajev, <i>Tallinn University of Technology, Estonia</i> Prof. Tõnu Lehtla, <i>Tallinn University of Technology, Estonia</i> Dr. Janis Zakis, <i>Riga Technical University, Latvia</i>	
LF-001929	A New Duty Cycles Calculation Method in Pulse Width Modulation for Direct Matrix Converters Based on The Shape Function Concept Dr. Paweł Szczepankowski, <i>Gdansk University of Technology, Poland</i>	
LF-000868	Voltage and Current-Mode Control for a Multi-phase Bi-directional DC-DC Converter Dr. Mitja Truntič, <i>University of Maribor, Faculty of Electrical Engineering and Computer Science, Slovenia</i> Dr. Miran Rodič, <i>University of Maribor, Faculty of Electrical Engineering and Computer Science, Slovenia</i> Prof. Miro Milanovič, <i>University of Maribor, Faculty of Electrical Engineering and Computer Science, Slovenia</i>	
LF-000965	Estimation of Controllability and Power Losses of Tapped-Inductor Converter used as Dimmable Driver for Light-Emitting Diodes Mr. Olegs Tetervenoks, <i>Riga Technical University, Latvia</i>	
LF-001589	Voltage Harmonics Compensator for High-Voltage Power Supplies Dr. Marko Petkovič, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Dr. Aleš Leban, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Dr. Mitja Nemeč, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Prof. Danjel Vončina, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Prof. Peter Zajec, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i>	
LF-002003	Four Level Diode-Clamped Back-To-Back Converter with Active DC Link Voltage Control Prof. Ryszard Strzelecki, <i>Gdynia Maritime University, Poland</i> Dr. Paweł Szczepankowski, <i>Gdansk University of Technology, Poland</i> Mrs. Natalia Strzelecka, <i>Gdynia Maritime University, Poland</i>	
LF-002011	Dual Mode Current Programmed PWM Dr. Aleš Leban, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Dr. Mitja Nemeč, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i>	

Session 1.3	EM Energy Conversion 1	Wednesday, June 5, 2013 14:00 - 16:00, Room A
	Chairman: Marek T. Hartman	
LF-001465	Novel Speed Sensorless DTC-SVM Scheme for Induction Motor Drives Mr. Dariusz Stando, <i>Warsaw University of Technology, Poland</i> Prof. Marian Kazmierkowski, <i>Warsaw University of Technology, Poland</i>	
LF-001988	Control of an Electromagnetic Aircraft Launch System Based on a Superconducting Linear Synchronous Motor Prof. João Murta Pina, <i>Universidade Nova de Lisboa, Portugal</i> Prof. João Martins, <i>Universidade Nova de Lisboa, Portugal</i>	
LF-001724	Cogging Torque Fast Computation Method for Surface Permanent Magnet Machines Based on Winding Function Theory Dr. Alberto Tassarolo, <i>University of Trieste, Italy</i> Mr. Lorenzo Branz, <i>Sicor S.p.A., R&D Department, Italy</i> Mr. Mauro Bortolozzi, <i>University of Trieste, Italy</i>	
LF-001562	Influence of Broken Rotor Bars on Magnetic Quantities in Induction Machine Dr. Klemen Drobnič, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Dr. Mitja Nemeč, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Prof. Rastko Fišer, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Prof. Vanja Ambrožič, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i>	
LF-001902	Analytical Calculation of the No-Load Flux Density in the Stator Core of Slotless SPM Machines Dr. Alberto Tassarolo, <i>University of Trieste, Italy</i> Mr. Lorenzo Branz, <i>Sicor S.p.A., R&D Department, Italy</i> Mr. Mauro Bortolozzi, <i>University of Trieste, Italy</i>	
LF-000299	Increasing Efficiency of the Switched Reluctance Generator at Low-speed Operation Dr. Peter Kosmatin, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Prof. Damijan Miljavec, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Prof. Danjel Vončina, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i>	
LF-000426	Piezoelectric Motor Driver: Design and Evaluation Mr. Edin Golubovic, <i>Sabancı University, Turkey</i> Mr. Zhenishbek Zhakypov, <i>Sabancı University, Turkey</i> Mr. Tarik Uzunovic, <i>Sabancı University, Turkey</i> Prof. Asif Sabanovic, <i>Sabancı University, Turkey</i>	

Session 1.4	Special Power Electronic Applications 1	Wednesday, June 5, 2013 14:00 - 16:00, Room B
	Chairman: Miran Rodič	
LF-000159	A Test Bench to Study Propulsion Drives of Electric Vehicles Mr. Anton Rassõlkin, <i>Tallinn University of Technology, Estonia</i> Prof. Valery Vodovozov, <i>Tallinn University of Technology, Estonia</i>	
LF-000302	Concept of the Bridge Leg with Mixed Normally-ON & Normally-OFF SiC JFETs Dr. Jacek Rabkowski, <i>Warsaw University of Technology, Poland</i> Mr. Mariusz Zdanowski, <i>Warsaw University of Technology, Poland</i> Prof. Roman Barlik, <i>Warsaw University of Technology, Poland</i>	
LF-000469	Comparative Study of Steady-State Performance of Voltage and Current Fed Dimmable LED Drivers Prof. Ilya Galkin, <i>Riga Technical University, Latvia</i> Mr. Oleg Tetervjonok, <i>Riga Technical University, Latvia</i> Ms. Irena Milashevski, <i>Tallinn University of Technology, Estonia</i>	
LF-000531	Current and Force Control in Micro Resistance Welding Machines. Review and Development Dr. Oleksandr F. Bondarenko, <i>Donbas State Technical University, Ukraine</i> Mrs. Iuliia V. Bondarenko, <i>Donbas State Technical University, Ukraine</i> Dr. Pavlo S. Safronov, <i>Donbas State Technical University, Ukraine</i> Dr. Volodymyr M. Sydorets, <i>Paton Electric Welding Institute of NAS of Ukraine, Ukraine</i>	
LF-000639	Control Strategy for the Multilevel Cascaded H-bridge Converter Dr. Arkadiusz Lewicki, <i>Gdansk University of Technology, Poland</i> Dr. Marcin Morawiec, <i>Gdansk University of Technology, Poland</i>	
LF-000752	Steady-State Analysis of qZS-Derived Push-Pull DC/DC Converter with Wide Input Voltage Regulation Range Dr. Oleksandr Husev, <i>Tallinn University of Technology, Estonia</i> Dr. Andrei Blinov, <i>Tallinn University of Technology, Estonia</i> Dr. Dmitri Vinnikov, <i>Tallinn University of Technology, Estonia</i> Mr. Andrii Chub, <i>Tallinn University of Technology, Estonia</i>	
LF-001112	A Double Inductor Current Source DC/DC Converter for 2kW Fuel Cell Application Mr. Aleksandrs Andreiciks, <i>Riga Technical University, Latvia</i> Mr. Ingars Steiks, <i>Riga Technical University, Latvia</i> Dr. Oskars Krievs, <i>Riga Technical University, Latvia</i>	

Session 2.1	Power Quality 2	Thursday, June 6, 2013 10:30 - 12:30, Room A
	Chairman: Carlos Couto	
LF-000264	A Control Structure For a Photovoltaic Supply System With Power Compensation Characteristics Suitable for Smart Grid Topologies Prof. Vitor Fernão Pires, <i>Escola Superior Tecnologia Setúbal / Instituto Politécnico Setúbal, Portugal</i> Prof. João Martins, <i>Universidade Nova de Lisboa, Portugal</i> Prof. Fernando Silva, <i>Center for Innovation in Electrical and Energy Engineering, Portugal</i>	
LF-000272	Output Filter Design for Single Phase Grid Connected Three-Level Quasi-Z-Source Inverter Dr. Oleksandr Husev, <i>Tallinn University of Technology, Estonia</i> Mr. Serhii Stepenko, <i>Tallinn University of Technology, Estonia</i> Mr. Carlos Roncero-Clemente, <i>University of Extremadura, Spain</i> Dr. Dmitri Vinnikov, <i>Tallinn University of Technology, Estonia</i> Dr. Enrique Romero-Cadaval, <i>University of Extremadura, Badajoz, Spain</i>	
LF-001937	Laboratory Realization of a Static VAR Compensator Mr. Jernej Černelič, <i>University of Maribor, Slovenia</i> Prof. Gorazd Štumberger, <i>University of Maribor, Slovenia</i>	
LF-001325	Emanuel's Method Versus Iliovici's Method for Reactive Power Compensation in Passive-Active Power Conditioning Scheme Prof. Marek T. Hartman, <i>Gdynia Maritime University, Poland</i> Dr. Daniel Wojciechowski, <i>Gdynia Maritime University, Poland</i>	
LF-000736	36-Pulse Rectifier with a System of Coupled Three-Phase Reactors Prof. Piotr Mysiak, <i>Gdynia Maritime University, Poland</i> Prof. Ryszard Strzelecki, <i>Gdynia Maritime University, Poland</i> Prof. Marius Klytta, <i>Technische Hochschule Mittelhessen, Germany</i>	
LF-000655	PSCAD/EMTDC Model for Photovoltaic Modules with MPPT Based on Manufacturer Specifications Mr. Carlos Roncero-Clemente, <i>University of Extremadura, Spain</i> Dr. Eva González-Romera, <i>University of Extremadura, Spain</i> Dr. Enrique Romero-Cadaval, <i>University of Extremadura, Badajoz, Spain</i> Dr. María-Isabel Milanés-Montero, <i>University of Extremadura, Spain</i> Dr. Víctor Miñambres-Marcos, <i>University of Extremadura, Spain</i>	
LF-001457	Influence of Small Constant-Power-Loads on the Power Supply System of an Aircraft Mr. Johannes Brombach, <i>Helmut-Schmidt-University, Germany</i> Mr. Michael Jordan, <i>Helmut-Schmidt-University, Germany</i> Mr. Florian Grumm, <i>Helmut-Schmidt-University, Germany</i> Prof. Detlef Schulz, <i>Helmut-Schmidt-University, Germany</i>	

Session 2.2	Power Electronics 2 + EMI and ESI Problems 1	Thursday, June 6, 2013 10:30 - 12:30, Room B
	Chairman: Enrique Romero-Cadaval	
LF-000515	Steady State Analysis of the Commutating LC Filter Based Dual Active Bridge for the Isolation Stage of Power Electronic Transformer Mr. Viktor Beldjajev, <i>Tallinn University of Technology, Estonia</i> Prof. Toomas Rang, <i>Tallinn University of Technology, Estonia</i> Dr. Janis Zakis, <i>Riga Technical University, Latvia</i>	
LF-001384	Evaluation of Current Ripple Amplitude in Three-Phase PWM Voltage Source Inverters Prof. Gabriele Grandi, <i>University of Bologna, Italy</i> Dr. Jelena Loncarski, <i>University of Bologna, Italy</i>	
LF-001392	Congestion Management with a Unified Power Flow Controller in a 380 kV Transmission Network Mr. Marco Fleckenstein, <i>TU Darmstadt, Germany</i> Prof. Gerd Balzer, <i>TU Darmstadt, Germany</i>	
LF-001961	Operation of PMSM after Single Open-phase Fault Mr. Andraž Kontarček, <i>Hidria Rotomatika d.o.o., Slovenia</i> Dr. Primož Bajec, <i>Hidria Rotomatika d.o.o., Slovenia</i> Dr. Mitja Nemeč, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Prof. Vanja Amrbrožič, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i>	
LF-000027	Influence of the Cavity Resonance on Shielding Effectiveness of Perforated Shielding Boxes Mr. Zdeněk Kubík, <i>University of West Bohemia, Czech Republic</i> Mr. Jiří Skála, <i>University of West Bohemia, Czech Republic</i>	
LF-001481	CM Voltage Compensator for DC/DC Converters Dr. Robert Smolenski, <i>University of Zielona Gora, Poland</i> Dr. Marcin Jarnut, <i>University of Zielona Gora, Poland</i> Dr. Jacek Bojarski, <i>University of Zielona Gora, Poland</i> Dr. Andrei Blinov, <i>Tallinn University of Technology, Estonia</i> Dr. Dmitri Vinnikov, <i>Tallinn University of Technology, Estonia</i>	
LF-001597	High Frequency Harmonics Emission of Modern Power Electronic AC-DC Converters Dr. Jaroslaw Luszcz, <i>Gdansk University of Technology, Poland</i>	

Session 2.3	Power Quality 3	Thursday, June 6, 2013 14:00 - 16:00, Room A
	Chairman: Daniel Wojciechowski	
LF-000337	Active Functions Implementation in Smart Inverters for Distributed Energy Resources Dr. Enrique Romero-Cadaval, <i>University of Extremadura, Badajoz, Spain</i> Dr. Antonio Moreno-Muñoz, <i>University of Córdoba, Spain</i> Dr. Juan José González de la Rosa, <i>University of Cádiz, Spain</i> Dr. Víctor Miñambres-Marcos, <i>University of Extremadura, Spain</i> Dr. Rafael J. Real-Calvo, <i>University of Córdoba, Spain</i> Dr. José María Sierra-Fernández, <i>University of Cádiz, Spain</i>	
LF-000523	Low-power Home PV Systems with MPPT and PC Control Modes Mr. Carlos Rosa, <i>Universidade Nova de Lisboa, Portugal</i> Prof. Dmitri Vinnikov, <i>Tallinn University of Technology, Estonia</i> Prof. Enrique Romero-Cadaval, <i>University of Extremadura, Badajoz, Spain</i> Prof. Vitor Fernão Pires, <i>Escola Superior Tecnologia Setúbal / Instituto Politécnico Setúbal, Portugal</i> Prof. João Martins, <i>Universidade Nova de Lisboa, Portugal</i>	
LF-000566	Active Power Electronic Transformer as a Power Conditioner for Nonlinear Loads Dr. Indrek Roasto, <i>Tallinn University of Technology, Estonia</i> Prof. Enrique Romero-Cadaval, <i>University of Extremadura, Badajoz, Spain</i> Prof. João Martins, <i>Universidade Nova de Lisboa, Portugal</i> Dr. Tanel Jalakas, <i>Tallinn University of Technology, Estonia</i>	
LF-002054	Supercapacitor Energy Storage System for Attenuating and Conditioning Power from Photovoltaic Generation Plants Mr. Miguel A. Guerrero, <i>University of Extremadura, Badajoz, Spain</i> Prof. Enrique Romero-Cadaval, <i>University of Extremadura, Badajoz, Spain</i> Dr. Víctor Miñambres-Marcos, <i>University of Extremadura, Spain</i> Dr. María-Isabel Milanés-Montero, <i>University of Extremadura, Spain</i>	
LF-001775	Assessment of Electrical Energy Production in Small Hydropower Plant with Ultra-low Head Dr. Henrik Lavrič, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Mr. Andraž Rihar, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Prof. Rastko Fišer, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i>	
LF-001864	Coordinated Reactive Power Control to Ensure Fairness in Active Distribution Grids Mr. Marko Kolenc, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Prof. Igor Papič, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Dr. Boštjan Blažič, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i>	
LF-001872	Case Study on Using Non-intrusive Load Monitoring System with Renewable Energy Sources in Intelligent Grid Applications Mr. Alexander Suzdalenko, <i>Riga Technical University, Latvia</i> Prof. Ilya Galkin, <i>Riga Technical University, Latvia</i>	

Session 2.4	Special Power Electronic Applications 2	Thursday, June 6, 2013 14:00 - 16:00, Room B
	Chairman: Piotr Mysiak	
LF-001163	Overview and Development of Design Concepts of AC Power Sources for Measuring Test Equipment Prof. Peter Zajec, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Prof. Danijel Vončina, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i>	
LF-000604	Sensorless Pressure Control of Centrifugal Pumps Mr. Ilja Bakman, <i>Tallinn University of Technology, Estonia</i> Mr. Valery Vodovozov, <i>Tallinn University of Technology, Estonia</i>	
LF-000728	Rectifiers With A Combined Filtration Of Primary Current For High-Frequency Power Systems Dr. Yevgeniy Sokol, <i>National Technical University "Kharkiv Polytechnic Institute", Ukraine</i> Dr. Yuriy Goncharov, <i>National Technical University "Kharkiv Polytechnic Institute", Ukraine</i> Mr. Aleksandr Eresko, <i>National Technical University "Kharkiv Polytechnic Institute", Ukraine</i> Prof. Vladimir Ivakhno, <i>National Technical University "Kharkiv Polytechnic Institute", Ukraine</i> Prof. Sergey Krivosheev, <i>National Technical University "Kharkiv Polytechnic Institute", Ukraine</i> Prof. Vladimir Zamaruev, <i>National Technical University "Kharkiv Polytechnic Institute", Ukraine</i> Mr. Andrey Lobko, <i>National Technical University "Kharkiv Polytechnic Institute", Ukraine</i> Mr. Yuriy Voytovich, <i>National Technical University "Kharkiv Polytechnic Institute", Ukraine</i>	
LF-000876	Analysis of the High Voltage Input Multiport Converter for the Electric Vehicle Charging Station Dr. Tanel Jalakas, <i>Tallinn University of Technology, Estonia</i> Dr. Indrek Roasto, <i>Tallinn University of Technology, Estonia</i> Prof. Dmitri Vinnikov, <i>Tallinn University of Technology, Estonia</i>	
LF-000256	Concept Maps in Power Electronics Education Dr. Zoja Raud, <i>Tallinn University of Technology, Estonia</i> Prof. Valery Vodovozov, <i>Tallinn University of Technology, Estonia</i> Prof. Tõnu Lehtla, <i>Tallinn University of Technology, Estonia</i>	
LF-001473	New Active Clamp Circuit for Current-Fed Galvanically Isolated DC/DC Converters Dr. Janis Zakis, <i>Tallinn University of Technology, Estonia</i> Prof. Dmitri Vinnikov, <i>Tallinn University of Technology, Estonia</i> Mr. Valery Kolosov, <i>Scientific and Manufacturing Enterprise "Impulse", Ukraine</i> Mr. Evgen Vasechko, <i>Scientific and Manufacturing Enterprise "Impulse", Ukraine</i>	
LF-001201	Innovative Strategies for Protecting Power Semiconductor Switches for Phase Balancing and Feeder Balancing in Aircraft Mr. Michael Terörde, <i>Helmut-Schmidt-University, Germany</i> Mr. Trung Do Thanh, <i>Helmut-Schmidt-University, Germany</i> Mr. Jens Lemke, <i>University of the Federal Armed Forces, Germany</i> Mr. Housam Wattar, <i>University of the Federal Armed Forces, Germany</i> Mr. Julian Koch, <i>University of the Federal Armed Forces, Germany</i> Prof. Detlef Schulz, <i>Helmut-Schmidt-University, Germany</i>	

Session 3.1	EM Energy Conversion 2	Friday, June 7, 2013 10:30 - 12:00, Room A
	Chairman: Danjel Vončina	
LF-000558	The Optimization of High Frequency Inductors with Litz-Wire Windings Dr. Alexander Stadler, <i>University of Applied Sciences Augsburg, Germany</i>	
LF-000248	Simulation and Measurement of Angular Vibration of Induction Machine via Hilbert Transformation Dr. Bohumil Skala, <i>University of West Bohemia in Pilsen, Czech Republic</i> Prof. Vaclav Kus, <i>University of West Bohemia in Pilsen, Czech Republic</i>	
LF-001953	Evaluation of Simplified dq Model of Induction Machine for Development of Diagnostic Procedures Dr. Mitja Nemeč, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Dr. Klemen Drobnič, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Dr. Henrik Lavrič, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Prof. Vanja Ambrožič, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i>	
LF-000582	Modelling of Control of a Doubly-fed Machine in Transient Stability Analysis Dr. Valentin Ažbe, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Prof. Rafael Mihalič, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i>	
LF-001295	Simulation, Modeling and Virtual Testing of Electric-drive-Powered Mechatronic Systems Dr. Tuomo Lindh, <i>Lappeenranta University of Technology, Finland</i>	

Session 3.2	Power Quality 4 + EM Energy Conversion 3 + Special Power Electronic Applications 3	Friday, June 7, 2013 10:30 - 12:00, Room B
	Chairman: Martins João	
LF-000795	Comparison of Three MPPT Algorithms for Three-Level Neutral-Point-Clamped qZ-Source Inverter Mr. Carlos Roncero-Clemente, <i>University of Extremadura, Spain</i> Dr. Oleksandr Husev, <i>Tallinn University of Technology, Estonia</i> Dr. Victor Miñambres-Marcos, <i>University of Extremadura, Spain</i> Mr. Serhii Stepenko, <i>Tallinn University of Technology, Estonia</i> Prof. Enrique Romero-Cadaval, <i>University of Extremadura, Badajoz, Spain</i> Dr. Dmitri Vinnikov, <i>Tallinn University of Technology, Estonia</i>	
LF-000841	Integrated Power Quality Monitoring System and the Benefits of Integrating Smart Meters Prof. Mustafa Music, <i>Public Electric Utility Elektroprivreda of Bosnia and Herzegovina, Bosnia and Herzegovina</i> Mr. Adnan Bosovic, <i>Public Electric Utility Elektroprivreda of Bosnia and Herzegovina, Bosnia and Herzegovina</i> Mr. Nedžad Hasanspahić, <i>Public Electric Utility Elektroprivreda of Bosnia and Herzegovina, Bosnia and Herzegovina</i> Dr. Samir Avdaković, <i>Public Electric Utility Elektroprivreda of Bosnia and Herzegovina, Bosnia and Herzegovina</i> Mrs. Elvira Becirović, <i>Public Electric Utility Elektroprivreda of Bosnia and Herzegovina, Bosnia and Herzegovina</i>	
LF-001686	Impact of Production Tolerances on Losses in Electrical Machines Dr. Maks Berlec, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Mr. Blaž Bratina, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Mr. Miha Šrekl, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Mr. Danilo Makuc, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i> Prof. Damijan Miljavec, <i>University of Ljubljana, Faculty of Electrical Engineering, Slovenia</i>	
LF-001368	The Use of Series Connection of Distributed Energy Sources in Smart Grid Dr. Evgen Sokol, <i>National Technical University "Kharkiv Polytechnic Institute", Ukraine</i> Prof. Volodymyr Ivakhno, <i>National Technical University "Kharkiv Polytechnic Institute", Ukraine</i> Mr. Ievgen Maliarenko, <i>National Technical University "Kharkiv Polytechnic Institute", Ukraine</i>	

INVITED PAPERS

Invited Lecture 1		Wednesday, June 5, 2013 9:00 - 10:00, Room A
	Chairman: Vanja Ambrožič and Ryszard Strzelecki	
	Power Electronics Solutions for Power Quality Improvement and R&D at the Group of Energy and Power Electronics of the University of Minho Prof. Carlos Couto, <i>Department of Industrial Electronics, University of Minho, Portugal</i>	
Invited Lecture 2		Thursday, June 6, 2013 9:00 - 10:00, Room A
	Chairman: Vanja Ambrožič	
	Electro-Mechanical Energy Conversion Dr. Primož Bajec, <i>Advanced Automotive Project Manager at Hidria, Slovenia</i>	

Invited Lecture 3		Friday, June 7, 2013 9:00 - 10:00, Room A
	Chairman: Marian Kazmierkowski	
	Electric vehicle charging systems Prof. Giuseppe Buja, <i>Dipartimento di Ingegneria Elettrica, Universita degli Studi di Padova, Italy</i>	