

Nov 22, 2015 Sunday			Nov 23, 2015 Monday			Nov 24, 2015 Tuesday			Nov 25, 2015 Wednesday		
Start	End	Program	Start	End	Program	Start	End	Program	Start	End	Program
08:30	17:00	Registration	08:30	17:00	Registration	08:30	17:00	Registration	08:30	17:00	Registration
09:00	10:30	Tutorial - 1	10:00	10:30	Opening Ceremony	09:00	09:45	Keynote - 3	09:00	09:20	Oral Presentations (Six parallel sessions)
10:30	12:00	Tutorial - 2	10:30	11:15	Keynote - 1	09:45	10:30	Keynote - 4	09:20	09:40	Oral Presentations (Six parallel sessions)
			11:15	12:00	Keynote - 2	10:30	11:00	Coffee Break	09:40	10:00	Oral Presentations (Six parallel sessions)
						11:00	11:45	Keynote - 5	10:00	10:20	Oral Presentations (Six parallel sessions)
12:00	13:00	Lunch Time	12:00	13:00	Lunch Time	12:00	13:00	Lunch Time	10:20	10:40	Oral Presentations (Six parallel sessions)
13:00	14:30	Tutorial - 3	12:20	14:20	Poster Presentations	12:20	14:20	Poster Presentations	10:40	11:00	Coffee Break
14:30	16:00	Tutorial - 4	14:20	14:40	Oral Presentations (Six parallel sessions)	14:20	14:40	Oral Presentations (Six parallel sessions)	11:00	11:20	Oral Presentations (Six parallel sessions)
16:00	17:30	Tutorial - 5	14:40	15:00	Oral Presentations (Six parallel sessions)	14:40	15:00	Oral Presentations (Six parallel sessions)	11:20	11:40	Oral Presentations (Six parallel sessions)
			15:00	15:20	Oral Presentations (Six parallel sessions)	15:00	15:20	Oral Presentations (Six parallel sessions)	11:40	12:00	Oral Presentations (Six parallel sessions)
			15:20	15:40	Oral Presentations (Six parallel sessions)	15:20	15:40	Oral Presentations (Six parallel sessions)	12:00	12:20	Oral Presentations (Six parallel sessions)
			15:40	16:00	Oral Presentations (Six parallel sessions)	15:40	16:00	Oral Presentations (Six parallel sessions)	12:20	12:40	Oral Presentations (Six parallel sessions)
			16:00	16:20	Coffee Break	16:00	16:20	Coffee Break	12:40	14:00	Lunch Time
			16:20	16:40	Oral Presentations (Six parallel sessions)	16:20	16:40	Oral Presentations (Six parallel sessions)	14:00	14:20	Oral Presentations (Six parallel sessions)
			16:40	17:00	Oral Presentations (Six parallel sessions)	16:40	16:00	Oral Presentations (Six parallel sessions)	14:20	14:40	Oral Presentations (Six parallel sessions)
			17:00	17:20	Oral Presentations (Six parallel sessions)	17:00	17:20	Oral Presentations (Six parallel sessions)	14:40	15:00	Oral Presentations (Six parallel sessions)
			17:20	17:40	Oral Presentations (Six parallel sessions)	17:20	17:40	Oral Presentations (Six parallel sessions)	15:00	15:20	Oral Presentations (Six parallel sessions)
			17:40	18:00	Oral Presentations (Six parallel sessions)	17:40	18:00	Oral Presentations (Six parallel sessions)	15:20	15:40	Oral Presentations (Six parallel sessions)
									15:40	16:00	Coffee Break
									16:00	16:20	Oral Presentations (Six parallel sessions)
									16:20	16:40	Oral Presentations (Six parallel sessions)
									16:40	17:00	Oral Presentations (Six parallel sessions)
									17:00	17:20	Oral Presentations (Six parallel sessions)
									17:20	17:40	Oral Presentations (Six parallel sessions)
18:00	20:00	Welcome Dinner				19:00	21:30	Gala Dinner	17:40	18:00	Closing Ceremony

Date: Nov 22, 2015		HALL:
08:30–17:00	Registration	

Date: Nov 22, 2015	
HALL:	
09:00-10:30	Tutorial - 1
10:30-12:00	Tutorial - 2
12:00-13:00	LUNCH BREAK
13:00-14:30	Tutorial - 3
14:30-16:00	Tutorial - 4
16:00-17:30	Tutorial - 5

18:00-20:00	WELCOME DINNER	
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Date: Nov 23, 2015		HALL: NH Hotel
08:30-17:00	Registration	
Date: Nov 23, 2015 - AM		HALL: Palazzo Steri
10:00-10:30	Opening Ceremony and Speeches	
KEYNOTE		HALL: Palazzo Steri
10:30-11:15		
KEYNOTE		HALL: Palazzo Steri
11:15-12:00		

12:00-13:00	LUNCH BREAK	NH Hotel
12:20-14:20	Poster Session	

ORAL PRESENTATIONS		
Date: Nov 23, 2015 - PM		HALL:
TRACK 1	SESSION CHAIR:	
14:20-14:40	ID: 60 Multi-Time Series and -Time Scale Modeling for Wind Speed and Wind Power Forecasting Part I: Statistical Methods, Very Short-Term and Short-Term Applications¶ Ilhami Colak (Istanbul Gelisim University), Seref Sagiroglu (Gazi University), Mehmet Yesilbudak* (Nevsehir Haci Bektas Veli University), ERSAN KABALCI (NEVSEHIR HACIBEKTAS UNIVERSITY), Halil Ibrahim BULBUL (Gazi University)	
14:40-15:00	ID: 70 Distributed Renewable Generation and Storage Systems Sizing in Deregulated Energy Markets Raji Atia* (Nagaoka University of Technology), Noboru Yamada (Nagaoka University of Technology)	
15:00-15:20	ID: 73 Influence of Axial Direction on Performance of Biomimetic Sealing System Yoshitaka NAKANISHI* (), Jason Sanderson (Kumamoto University), Takuro Honda (Kumamoto University), Keiji Kasamura (Kumamoto University), Yuta NAKASHIMA (Kumamoto University), Hidehiko Higaki (Kyushu Sanyo University)	
15:20-15:40	ID: 46 Neural-Network Based Vector Control of VSCHVDC Transmission Systems¶ Eduardo Alonso* (City University London)	
15:40-16:00	ID: 219 Disc-type PM Machine for the Electromagnetic Conversion/Suspension of a Flywheel System Andrea Tortella (University of padova), Mauro Andriollo* (University of Padova), Franco Bortot ()	
16:00-16:20	COFFEE BREAK	
TRACK 2	SESSION CHAIR:	
16:20-16:40	ID: 289 Dynamic Diagnostic and Reconfiguration for A new FPGA Based Green Controller Kenichi Morimoto* (Nagasaki University), Fujio Kurokawa (Nagasaki University)	
16:40-17:00	ID: 105 A DP based scheme for real-time reconfiguration of solar cell arrays exposed to dynamic changing inhomogeneous illuminations. Liping Shi (Mads Clausen Institute), Robert Brehm* (Mads Clausen Institute)	
17:00-17:20	ID: 288 A New FPGA Based Green Controller Using FBD and HLS Kenichi Morimoto* (Nagasaki University), Fujio Kurokawa (Nagasaki University)	
17:20-17:40	ID: 345 FPGA Implementation of a Lead-Acid Battery For Photovoltaic Applications Nadir Kabache* (Research Laboratory LREA, University of Médéa), Samir Moulahoum (University of Médéa), Amine Laidi (University of Medea), Mohamed Bouaissa (University of Medea), Hamza Houassine (Research Laboratory LREA, University of Médéa)	
17:40-18:00	ID: 369 A study of Communication Protocols and Wireless Networking Systems for Lighting Control Application¶ Susan Varghese* (MIT,Manipal), George I (Manipal Institute of Technology,manipal), Ciji Pearl Kurian (M.I.T Manipal)	

Date: Nov 23, 2015 - PM		HALL:
TRACK 1	SESSION CHAIR:	
14:20-14:40	ID: 398 Assessment of Potential Energy Producible from Agricultural Biomass in the Municipalities of the Novara Plain¶ Mariapia Martino* (Politecnico di Torino), Guglielmina Mutani (Politecnico di Torino), Ilaria Carlucci (Politecnico di Torino)	
14:40-15:00	ID: 284 A Case Study on the Investigation of Solar Regime in Van, Turkey Naci Genc (Yuzuncu Yil University), Mehmet Yesilbudak* (Nevsehir Haci Bektas Veli University), Medine Colak (Gazi University, Faculty of Technology, Department of Electrical and Electronics Eng.)	
15:00-15:20	ID: 300 Input-Current-Harmonics Suppression of a Matrix Converter under High Load-Power-Factor Shinya Takida* (Nagoya Institute of Technology), Takaharu Takeshita (Nagoya Institute of Technology)	
15:20-15:40	ID: 350 Load and Short-Circuit Analyses of the Electricity Transmission System for Industry Regions in Ankara Ramazan Bayindir* (Gazi University), Mehmet Yesilbudak (Nevsehir Haci Bektas Veli University), Ümüt Cetinkaya (Turkish Electricity Transmission Company)	
15:40-16:00	ID: 401 Ring DC Node Configurations for Enhanced DC Fault Protection in Multiterminal HVDC Networks Azmy Gowaid* (University of Strathclyde), Grain Adam (), Barry Williams (), John Fletcher (university of new south wales)	
16:00-16:20	COFFEE BREAK	
TRACK 4	SESSION CHAIR:	
16:20-16:40	ID: 77 An Aerodynamic Modelling Methodology for an Offshore Floating Vertical Axis Wind Turbine Brian Hand* (Cork Institute of Technology), Andrew Cashman (Cork Institute of Technology), Ger Kelly (Cork Institute of Technology)	
16:40-17:00	ID: 402 Impact of PSS and STATCOM on Transient Stability of Multi-machine Power System connected to PV Generation¶ Selwa Fetissi* (University of Constantine), Djamel Labed (University of Constantine), Imen Labed (University of Constantine), hassiba serghine ()	
17:00-17:20	ID: 423 Multi-Criterion Design and 2D Cosimulation Model of 4 kW PM Synchronous Generator For Standalone Run-of-the-River Stations Yucel Cetinceviz* (Kastamonu University), Durmus Uygun (), H?seyin Demirel (Karabuk University)	
17:20-17:40	ID: 17 Impact of Fill Factor on Input Current Ripple of Photovoltaic System Ahmad El Khateb* (Zirve University), Nasrudin Abd Rahim (), Barry Williams ()	
17:40-18:00	ID: 56 Analysis of solar inverter THD according to PWM's carrier frequency Hasan Cangi* (Zirve University), Suleyman Adak ()	
Date: Nov 23, 2015 - PM		HALL:
TRACK 3	SESSION CHAIR:	

14:20-14:40	ID: 14 Single Phase Multilevel String Inverter for Solar Applications¶ ERSAN KABALCI* (Nevsehir Haci Bektas Veli University), Yasin Kabalci (""Nigde Vocational College of Technical Sciences, Nigde University""), Rıdvan Canbaz (), Goksel Gokkus ()
14:40-15:00	ID: 189 Trading of pumped storage hydropower plants on energy only and ancillary services markets Sebastian Braun* (TU München)
15:00-15:20	ID: 261 Mixed-integer linear program for an optimal hybrid energy network topology Wiet Mazairac* (VITO), Robbe Salenbien (VITO), Bauke de Vries (Eindhoven University of Technology)
15:20-15:40	ID: 364 Optimal Energy Management of Smart Grids With Plug-In Hybrid Electric Vehicles¶ ROSARIO MICELI* (UNIVERSITA' DI PALERMO), Valeria Boscaino (University of Palermo), Marco Caruso (University of Palermo)
15:40-16:00	ID: 79 Validation of Hydroelectric Power Plant Model for Speed Governor Development Studies¶ Derya MURAT* (TUBITAK), İlhan KOŞALAY (Ankara UNIVERSITY), Dogan GEZER (TUBITAK), Cem ŞAHİN (TUBITAK)
16:00-16:20	COFFEE BREAK
TRACK 6 SESSION CHAIR:	
16:20-16:40	ID: 457 Dual DC-DC Converter and Monitoring Interface for Asymmetrical String Inverters ERSAN KABALCI* (NEVSEHIR HACIBEKTAS UNIVERSITY), RAMAZAN BAYINDIR (GAZ? UN?VERSITY), Goksel Gokkus (), Yasin Kabalci (""Nigde Vocational College of Technical Sciences, Nigde University"")
16:40-17:00	ID: 54 Improvement of transient response to islanding control of microgrid with bidirectional inverter Hsiang Lin Huang * (Nuclear Energy Research), Yih-Der Lee (Nuclear Energy Research), Yung-Ruei Chang (Nuclear Energy Research)
17:00-17:20	ID: 90 Design of an Energy Storage Converter for Microgrid Applications¶ Li Yuan Liu* (INER), Ming Chih Tsai (), Chia Lun Hsu (), Kuo Yuan Lo (), Yung-Ruei Chang (Nuclear Energy Research)
17:20-17:40	ID: 99 Smart net metering models for smart grid in India¶ Jagruti Thakur (IIT Kharagpur), Basab Chakraborty* (IIT Kharagpur)
17:40-18:00	ID: 162 OLTC Selection and Switching Reduction in Multiple-Feeder LV Distribution Networks¶ Louis Gevaert* (Ghent University), Tine Vandoorn (Ghent University), Christof Deckmyn (Ghent University), Jan Van de Vyver (Ghent University), Lieven Vandevelde (Ghent University)
Date: Nov 23, 2015 - PM HALL:	
TRACK 7 SESSION CHAIR: Constantinos Sourkounis	
14:20-14:40	ID: 212 High Power Density STATCOM with Extended Reactive Power Control Range¶ Peng Li* (Strathclyde University), Grain Adam (), derrick Holliday (), Barry Williams ()

14:40-15:00	ID: 242 Combination of Input/Output Control using Matrix Converter for Islanded Operation for AC generator¶ <i>Jun-ichi Itoh (Nagaoka University of Tec.), Takuya Kataoka* (Nagaoka University of Technology), Hiroki Takahashi (Nagaoka University of Technology)</i>
15:00-15:20	ID : 214 Parallel-Input Series-Output Interleaved Flyback based Solar PV Module Integrated Micro-Inverter <i>Nataraj Pragallapati* (I.I.T.Bombay) Tirthasarathi Lodh (Indian Institute Of Technology(Bombay) Vivek Agarwal (Indian Institute Of Technology,Bombay)</i>
15:20-15:40	ID: 368 Switching command based on Lyapunov function for a boost converter with an LC input filter in dc microgrid application¶ <i>Matheepot Phattanasak* (KMUTNB), Roghayeh Gavagsaz-Ghoachani (), Jean-Philippe Martin (), Babak Nahid-mobarakeh (), Serge Pierfederici (), Pierre Riedinger (Université de Lorraine)</i>
15:40-16:00	ID: 400 Transient behaviour and active damping of vibrations in DFIG-based wind turbines during grid disturbances¶ <i>Alexander Broy (Ruhr-Universitaet Bochum, EneS), Pavlos Tourou* (Ruhr-University), Constantinos Sourkounis (Ruhr-University Bochum)</i>
16:00-16:20	COFFEE BREAK
TRACK 8	SESSION CHAIR:
16:20-16:40	ID: 121 Research on the Transient Characteristic of Photovoltaics-ship Power System based on PSCAD/EMTDC¶ <i>Yuwei SUN* (Wuhan University of Technology), Yuanchao Qiu (Wuhan University ofTechnology), yuwei Sun (), Xujing Tang (), Yang Wang (), Qizhen Jiang ()</i>
16:40-17:00	ID: 287 One Day Ahead Prediction of Wind Speed Class¶ <i>Silvia Nunnari* (Università di Catania), Luigi Fortuna (Università degli Studi di Catania), Giorgio Guariso (Politecnico di Milano)</i>
17:00-17:20	ID: 343 Shape Optimization of Cantilever Beam for Wind Energy Harvesting¶ <i>Giuseppe Acciani (Politecnico di Bari, Italy), Filomena Di Modugno* (Politecnico di Bari), Giancarlo Gelao (Politecnico di Bari), Ernesto Mininno (Politecnico di Bari)</i>
17:20-17:40	ID : 226 Daily Cost Minimization for an Off-Grid Renewable Microhybrid System Installed to a Residential Home <i>Nedim Tutkun* (Duzce University) Özay Can (Düzce University) Ender San (Düzce University)</i>
17:40-18:00	ID: 393 Simplified Feedback Linearization Control of a Single-Phase Photovoltaic NPC Converter in Direct-Quadrature Rotating Reference Frame¶ <i>Sante Pugliese* (Politecnico di Bari), Rosa Anna Mastromauro (Politecnico di Bari), Silvio Stasi (Politecnico di Bari)</i>
Date: Nov 23, 2015 - PM HALL:	
TRACK 1	SESSION CHAIR:
14:20-14:40	ID: 28 Determination the relation between the target regulations about End of Life Vehicles (ELVs) and Greenhouse Gas emissions in Turkey¶ <i>Burcu Onat* (Istanbul University)</i>

14:40-15:00	ID: 127 Experimental Noise and Vibration Analysis of Switched Reluctance Machines - Comparison of Soft and Hard Chopping in Transient Conditions¶ <i>Yves Mollet* (ULB), Mathieu Sarrazin (Siemens Industry Software), Herman Van der Auweraer (Siemens Industry Software), Johan Gyselinck (ULB)</i>
15:00-15:20	ID: 219 Disc-type PM Machine for the Electromagnetic Conversion/Suspension of a Flywheel System <i>Andrea Tortella (University of padova), Mauro Andriollo* (University of Padova), Franco Bortot ()</i>
15:20-15:40	ID: 91 Performance of a DC-Based Microgrid System in Okinawa¶ <i>Taichiro Sakagami* (OIST), yoshiyuki asai (OIST), Annette Werth (Sony CSL), daisuke kawamoto (), Mario Tokoro (Sony CSL), Hiroaki Kitano (OIST)</i>
15:40-16:00	ID : 403 Optimal Power Flow Study Using Conventional and Neural Networks Methods <i>Labeled Imen* (University Of Constantine) Djamel Labeled (University Of Constantine) Hassiba Serghine () Selwa Fetissi (University Of Constantine)</i>
16:00-16:20	COFFEE BREAK
TRACK 9	SESSION CHAIR:
16:20-16:40	ID: 384 Processing Infrared Image of PV Modules for Defects Classification¶ <i>Silvano Vergura* (Politecnico di Bari), Francescomaria Marino (Politecnico di Bari), Mario Carpentieri (Politecnico di Bari)</i>
16:40-17:00	ID: 430 Sizing and Simulation of an Inverter-Fed Permanent-Magnet Linear Synchronous Drive for Servo-Assistance of a Ship Steering Gear¶ <i>Claudio Bruzzese* (University of Rome – Sapienza), Damiano Zito (University of Rome – Sapienza), Andrea Raimo (University of Rome - Sapienza), Ezio Santini (University of Rome - Sapienza), Alberto Tassarolo (University of Trieste)</i>
17:00-17:20	ID : 439 An electromagnetic generator for MAGLEV transportation systems <i>Marco Trapanese*()</i>
17:20-17:40	ID: 438 Technical and Economical Comparison between NdFeB and Hard Ferrites linear electrical generators from sea waves¶ <i>marco Trapanese* (), G. Cipriani (), M. Corpora (), Vincenzo Di Dio (University of Palermo), ROSARIO MICELI (UNIVERSITA' DI PALERMO), Ciro Spataro (University of Palermo, Italy)</i>
17:40-18:00	ID: 446 Performance and Efficiency Improvements of a Hydraulic Ship Steering Gear by a Permanent Magnet Linear Synchronous Servo Motor¶ <i>Claudio Bruzzese* (University of Rome – Sapienza), Damiano Zito (University of Rome – Sapienza), Andrea Raimo (University of Rome - Sapienza), Ezio Santini (University of Rome - Sapienza), Alberto Tassarolo (University of Trieste)</i>
Date: Nov 23, 2015 - PM HALL:	
TRACK 1	SESSION CHAIR:
14:20-14:40	ID: 441 Comparison Four Topologies for Three-phase Dynamic Voltage Restorer¶ <i>Ebrahim Babaei* (University of Tabriz), Mohammad Kangarlu ()</i>

14:40-15:00	ID : 219 Disc-type PM Machine for the Electromagnetic Conversion/Suspension of a Flywheel System Andrea Tortella(University Of Padova) Mauro Andriollo*(University Of Padova) Franco Bortot()
15:00-15:20	ID: 396 Control of a Grid Connected Photovoltaic System¶ Djamila REKIOUA* (University of Bejaia), Toufik Rekioua (), youcef soufi (Tebessa University)
15:20-15:40	ID: 203 Fast and cheap stepper motor drive¶ Mohamed Tarnini* (Beirut Arab University)
15:40-16:00	ID: 228 Energy Performance of Concentrator and Flat Plate Photovoltaics in the Mediterranean Area Alfonso Damiano* (Università di Cagliari), Carla Sanna (Sardegna Ricerche), Malgorzata Gawronska (Sardegna Ricerche)
16:00-16:20	COFFEE BREAK
TRACK 1	SESSION CHAIR:
16:20-16:40	ID: 124 Optimal Placement and Sizing of Active In-line Voltage Regulators in Flemish LV Distribution Grids¶ NIKOLAOS EFKARPIDIS* (K.U LEUVEN), Tom De Rybel (KU LEUVEN), Johan Driesen (KU LEUVEN)
16:40-17:00	ID: 125 A Constant-Current Constant-Voltage Charging Based Control and Design Approach for the Parallel Resonant Converter¶ Taha Gücin* (Yalova University), Muhammet BİBEROĞLU (Yalova University), Bekir Fincan (Istanbul Technical University)
17:00-17:20	ID: 129 Effect of damping coefficient on power generated & comfort index in energy regenerative damper for automobile suspension system¶ Prashant Todmal* (Politecnico Di Milano), Stefano Melzi (Politecnico Di Milano)
17:20-17:40	ID: 132 Research on Power Load Flow Calculation for Photovoltaic-ship Power System based on PSAT¶ Chang Guo (Wuhan University of Technology), Yuwei SUN* (Wuhan University of Technology), yuwei Sun (), Xinping YAN (), Yang Wang (), Qizhen Jiang (), guo Chang ()
17:40-18:00	ID: 133 Modelling and experimentation of grid-forming inverters for standalone hybrid wind-battery systems¶ Leong Kit Gan* (The University of Edinburgh), Jonathan k.H. Shek (The University of Edinburgh), Markus Mueller (The University of Edinburgh)

POSTER SESSION-1 (Nov 23, 2015 MONDAY, 12:20-14:20) HALL:	
TRACK	SESSION CHAIR:
ID: 232 Effect of Voltage Deviations on Power Distribution Losses in Presence of DG Technology Jaser Sa'ed* (Birzeit University), Nasser Ismail (Birzeit University), salvatore Favuzza (University of Palermo), Fabio Massaro (University of Palermo), Mariano Ippolito (University of Palermo)	
ID: 59 Markov process reliability model for photovoltaic module encapsulation failures Mohamed Khalil* (Politecnico di Milano), Loredana Cristaldi (Politecnico Di Milano), Marco faifer (Politecnico di Milano), Payam Soulatiantork (Politecnico di Milano)	

ID: 63 State estimation on stand-alone DC microgrids through distributed intelligence

Wesley Doorsamy* (University of Witwatersrand), Willem Cronje (University of the Witwatersrand)

ID: 102 Analysis and Optimization on a Novel High-temperature Thermoelectric Generator System

Haoyu Xu (Chongqing University), Xiaolong Gou* (Chongqing University), Shaowei Qing (Chongqing University), Huifeng Ping (Chongqing University)

ID: 295 DESIGN AND SIMULATION OF SOLAR AND WIND ENERGY CONVERSION SYSTEM IN ISOLATED MODE OF OPERATION

Ciji Pearl Kurian* (M.I.T Manipal), LakshmanRao Paragond (MIT), SINGH B.K (MIT)

ID: 195 Centralized Controller Tuning for MIMO Process with Time delay

Thirunavukkarasu Indiran* (Manipal University), Shanmugapriya Selvanathan (Manipal University), Vinayambika S Bhat (Manipal University), Majaaz Khan ()

ID: 239 Improvement of Solar Radiation Model Based on Physical Parametrization

Yuji Mizuno* (Nagasaki Institute of Applied), Yoshito Tanaka (Nagasaki Institute of Applied Science), Koji Kiyoyama (Nagasaki Institute of Applied Science), Tadahiro Kishikawa (Nagasaki Institute of Applied Science), Makoto Shimojima (Nagasaki Institute of Applied Science), Nobumasa Matsui (NiAS), Haruo Hinata (Nagasaki Institute of Applied Science), Ken Oyama (Nagasaki Institute of Applied Science)

ID: 257 Design and experimental implementation of single phase power factor correction converter based on fuzzy logic controls techniques

Samir Moulahoum* (University of Médéa), Abderrahmen Benyamina (Research Laboratory LREA, University of Médéa), Ilhami Colak (Istanbul Gelisim University), Nadir Kabache (Research Laboratory LREA, University of Médéa), Hamza Houassine (Research Laboratory LREA, University of Médéa)

ID: 279 A PV Panel Simulator Based on a Two Quadrant DC/DC Power Converter with a Sliding Mode Controller

Armando Cordeiro (ISEL), Daniel Foito* (IPS), V. Fernao Pires (ESTSetubal/IPS)

ID: 296 Experimental performances of a DMPPT multitopology converter

Giorgio Graditi* (ENEA), Giovanna Adinolfi (ENEA), Antonio Del Giudice (ENEA)

ID: 460 Advanced Forecasting Method to the Optimal Management of a DC microgrid in presence of Uncertain Generation

Giorgio Graditi (ENEA), Roberto Ciavarella (ENEA), Maria Valenti (ENEA), Antonio Bracale (University of Napoli Parthenope), Pierluigi Caramia (University of Napoli Parthenope)*

ID: 35 An investigation of physical and energy properties of briquette fuel mixed with cotton dust (CD) and carbonized cotton dust (CCD)

Borvorn Israngkura Na Ayudhya (Rajamangala University of Tech), Boonsri Kusuktham (Rajamangala University of Technology Krungthep), Siripol Suvunnapob (Rajamangala University of Technology Krungthep)*

ID: 52 HYDROPOWER PLANTS TAILWATER ENERGY PRODUCTION AND OPTIMIZATION

Kerim Mehmet Murat Tunç (Istanbul Bilgi University)*

ID: 89 SM-MRAS Based Sensorless MPPT Control for Dual Power Flow Wind Energy Conversion System

Ying Zhu (Hohai university), ming cheng (), Wang Qingsong (Southeast University)*

ID: 104 Class-E² Inductive Power Transfer System With Pre- and Post-Regulators

Tomoharu Nagashima (Chiba University), Xiuqin Wei (Nagasaki University), Hiroo Sekiya (Chiba University)*

ID: 143 Investigation of the Heat Cycle of a CO₂ Hydrate Using Plate Type Heat Exchangers

Kyosuke Ishikawa (Kitami Institute of Technology), shin'ya Obara (KITAMI Institute of Technology), Masamitsu Takabatake (KITAMI Institute of Technology), Ryo Kawai (KITAMI Institute of Technology)*

ID: 145 Research on Reduction of Fuel Consumption in the Showa Base Microgrid by Using Distributed Diesel Generators

Takuya Kanai (Kitami Institute of Technology), shin'ya Obara (KITAMI Institute of Technology), Kenji Ishizawa (National Institute of Polar Research), Taiki Ouchi (Hokkaido Electric Power Co., Inc.), Ryo Hamanaka (Kitami Institute of Technology)*

ID: 160 Evaluation of hydrogen energy production of mining waste waters and pools

Oyku Bilgin (Şirnak University)*

ID: 180 Implementation of an Agent based Distributed FLISR Algorithm using IEC 61850 in Active Distribution Grids

Pouya Jamborsalamati (RWTH Aachen University), Abhinav Sadu (RWTH Aachen University), Ferdinanda Ponci (RWTH Aachen University), Antonello Monti (RWTH Aachen University)*

ID: 188 Sustainability of decentralized renewable energy systems in Sub-Saharan Africa

Wesley Doorsamy (University of Witwatersrand), Willem Cronje (University of the Witwatersrand)*

ID: 223 Novel Power Generation from Microalgae: Application of Different Gasification Technologies

Aziz Muhammad (Tokyo Institute of Technology), Takuya Oda (Tokyo Institute of Technology), Takao Kashiwagi (Tokyo Institute of Technology)*

ID: 252 Voltage Control of Microgrid Systems Based on 3L-NPC Inverters with LCL-Filter in Islanding Operation

Rosa Anna Mastromauro (Politecnico di Bari), Francesco Gervasio (Politecnico di Bari), Silvio Stasi (Politecnico di Bari), Emilio Bueno (Universidad de Alcala), Marco Liserre (Christian-Albrechts-Universität zu Kiel)*

ID: 303 Digital Peak Current Mode DC-DC Converter with Overcurrent Limitation Function

Kazuhiro Kajiwara (Nagasaki University), Tatsuya Ueki (Nagasaki University), Yuichiro Shibata (), Fujio Kurokawa (Nagasaki University)*

ID: 304 Integral Gain Switchover Digital Control Boost Converter to Improve Light Load Characteristics

Kazuhiro Kajiwara (Nagasaki University), Hidenobu Tajima (Nagasaki University), Fujio Kurokawa (Nagasaki University)*

ID: 309 Node Voltage Control and Line Loss Suppression Using Unified Power Flow Controller on Distribution System

Takuya Maekawa (Nagoya Institute of Technology), Takaharu Takeshita (Nagoya Institute of Technology), Yasuyuki Kunii (Chubu Electric Power Co., Inc.)*

ID: 321 Suppression of the switching frequency variation for Current Sensor-less Hysteretic Current Mode Switching Supply

Kazuki Yoshimura (Nagasaki University), Fujio Kurokawa (Nagasaki University)*

ID: 326 A Consideration of Signal Frequency Detector in Digital Peak Current Mode DC-DC Converter

Yudai Furukawa (Nagasaki University), Shusuke Maeda (Nagasaki University), Shunsuke Tsuruoka (Nagasaki University), Fujio Kurokawa (Nagasaki University), Haruhi Eto (NiAS), Ilhami Colak (Istanbul Gelisim University)*

ID: 357 Comparison of Current Control Strategies Applied to a Boost-Rectifier Connected to a Direct Drive Wave Energy Converter

Hugo Mendonça (Upm), Sergio Martinez (Universidad Politecnica de Madrid), Dionisio Ramirez (Universidad Politecnica de Madrid)*

ID: 386 The Energy System of Sicilian Region in Italy; 2014 situation and evolutionary trends

Edoardo Moreci (DEIM, University of Palermo), Giuseppina Ciulla (DEIM), Valerio Lo Brano (DEIM)*

ID: 394 A Review of Multiple Faults Diagnosis Methods in Voltage Source Inverters

Fabio Genduso (Università di Palermo), Antonino Oscar Di Tommaso (Università di Palermo), ROSARIO MICELI (UNIVERSITA' DI PALERMO), Giuseppe Ricco Galluzzo (Università di Palermo)*

ID: 328 Accurate modelling of Hysteretic Systems for an efficient energetic conversion

Pietro Burrascano* (Università di Perugia), Stefano Laureti (School of Engineering, University of Warwick), Marco Ricci (Department of Engineering, University of Perugia), Luca Senni (Department of Engineering, University of Perugia)

Date: Nov 24, 2015		HALL:
08:30–17:00	Registration	
Date: Nov 24, 2015 - AM		HALL:
KEYNOTE		HALL:
09:00-09:45		
09:45-10:30		
10:30-11:00	COFFEE BREAK	
KEYNOTE		HALL:
11:00-11:45		
12:00-13:00	LUNCH BREAK	
12:20-14:20	Poster Session	

ORAL PRESENTATIONS	
Date: Nov 24, 2015 - PM	
HALL:	
TRACK 11	SESSION CHAIR:
14:20-14:40	ID: 202 ECO-COMMUNAL MANAGEMENT, TRANSITION ENGAGEMENT, AND CONNECTEDNESS A MODERATED MEDIATION MODEL FOR THE PERFORMANCE OF RENEWABLE ENERGY PROJECTS IN EMERGING ECONOMIES† <i>Yohannes Haile* (Case Western Reserve University), Christopher Laszlo (Case Western Reserve University), Kathleen Buse (Case Western Reserve University), James Gaskin (Brigham Young University), Roger Saillant (Case Western Reserve University)</i>

14:40-15:00	ID: 187 A REVIEW AND COMPARISON OF RENEWABLE ENERGY STRATEGIES OR POLICIES OF SOME COUNTRIES¶ <i>A. Ziya AKTAS* (BASKENT University)</i>
15:00-15:20	ID: 425 Grid Parity in the Italian Domestic PV Market. A Sensitivity Analysis¶ <i>Francesco Pauli (), Vanni Lughì (), Giorgio Sulligoi (), Alessandro Massi Pavan* (University of Trieste (Italy))</i>
15:20-15:40	ID: 359 Peak and Energy Contributions of Distributed PV to PJM¶ <i>Philip Diefenderfer (Bucknell University), Edward Prescott (Bucknell University), Peter Mark Jansson* (Bucknell University)</i>
15:40-16:00	ID: 468 Choice of the Most Suitable Wind Turbine in the Installation Site: a Case Study¶ <i>Filippo Spertino* (), Valeria Cocina (Politecnico di Torino), paolo.di Leo ()</i>
16:00-16:20	COFFEE BREAK
TRACK 1	SESSION CHAIR:
16:20-16:40	ID: 414 Power Management Based on the Operating Conditions of Grid, Mircogrid and Hybrid Storage¶ <i>Nikhil Korada* (IIT Madras), Mahesh Mishra (Indian Institute of Technology Madras), Srikanth Kotra (IIT Madras)</i>
16:40-17:00	ID: 406 Improved Control Strategy of Full-Bridge Modular Multilevel Converter¶ <i>Grain Adam* (University of Strathclyde)</i>
17:00-17:20	ID: 449 Sensorless Load Monitoring and Management in Electric Power Grid through Energy Harvesting¶ <i>Kaloyan Mihaylov (), Stanimir Valtchev* (FCT/UNL), Rumen Arnaudov ()</i>
17:20-17:40	ID: 456 Measurements and verification of ground-based LiDAR in complex terrain¶ <i>Kyungnam Ko* (Jeju Univ.), Dae Young Kim ()</i>
17:40-18:00	ID: 426 Overview of Small Scale Electric Energy Storage Systems suitable for dedicated coupling with Renewable Micro Sources¶ <i>Alessandro Fraleoni Morgera* (Dept. of Engineering and Archi), Vanni Lughì ()</i>
Date: Nov 24, 2015 - PM HALL:	
TRACK 1	SESSION CHAIR:
14:20-14:40	ID: 30 A straightforward method: Biochemical methane potential assay¶ <i>Vedat Yilmaz* (Akdeniz University)</i>
14:40-15:00	ID: 43 Electrothermal Model of IGBT Three-Level Neutral-Point-Clamped Rectifier for Synchronous Reluctance Generator in Wind Power Application¶ <i>Mohammed Alnajjar* (Universität der Bundeswehr), Dieter Gerling (Universität der Bundeswehr München)</i>
15:00-15:20	ID: 61 Multi-Time Series and -Time Scale Modeling for Wind Speed and Wind Power Forecasting Part II: Medium-Term and Long-Term Applications <i>Ilhami Colak (Istanbul Gelisim University), Seref Sagiroglu (Gazi University), Mehmet Yesilbudak* (Nevsehir Haci Bektas Veli University), Ersan Kabalci (Nevsehir Haci Bektas Veli University), Halil Ibrahim BULBUL (Gazi University)</i>

15:20-15:40	ID: 62 Electric and Magnetic Emission in Near Field Region and Thermal Behaviour of Power Module for Photovoltaic Application¶ GIOVANNI TINE* (ISSIA CNR), ANTONIO CATALIOTTI (UNIVERSITA' DI PALERMO), ROSARIO MICELI (UNIVERSITA' DI PALERMO), DARIO DI CARA (ISSIA CNR), GIUSEPPE MARSALA (ISSIA CNR), ANTONINO PECORARO (ISSIA CNR), ANTONELLA RAGUSA (ISSIA CNR)
15:40-16:00	ID: 13 Modeling and Control of Photovoltaic-Based Microgrid¶ Khalid Ateea (University of Benghazi), Ashraf Khalil* (University of Benghazi)
16:00-16:20	COFFEE BREAK
TRACK 10	SESSION CHAIR:
16:20-16:40	ID: 467 ABB Smart Lab: simulating future applications with present equipment¶ Diego Pagnoncelli* (Medium Voltage Products ABB S.p.A. Dalmine (BG), Italy), Paolo Perani (Medium Voltage Products ABB S.p.A. Dalmine (BG), Italy), Enrico Ragaini (ABB)
16:40-17:00	ID: 433 SCUOLA PROJECT: the “hub of smart services” for cities and communities¶ dario Zaninelli* (), Maurizio Delfanti (Politecnico di Milano), Valeria Olivieri (Politecnico di Milano), Giuseppe Esposito (Politecnico di Milano)
17:00-17:20	ID: 432 Smart Campus-an energy integrated approach¶ Mariacristina Roscia* (University of Bergamo, Italy)
17:20-17:40	ID: 434 Building DC Microgrids - Planning of an Experimental Platform with Power Hardware In the Loop Features¶ mario Pagano* (), Andrea Scalfati (University of Naples), maurizio fantauzzi (University of Naples), Diego Iannuzzi (University of Naples), Mariacristina Roscia (University of Bergamo)
17:40-18:00	ID: 399 A model for the evaluation of thermal and electric energy consumptions in residential buildings Michele Pastorelli* (Politecnico di Torino), Guglielmina Mutani (Politecnico di Torino), Federico de Bosio (Politecnico di Torino)
Date: Nov 24, 2015 - PM HALL:	
TRACK 7	SESSION CHAIR: Constantinos Sourkounis
14:20-14:40	ID: 64 Contact-less electromagnetic recharging system for heavy-duty bus flywheel storage¶ Andrea Tortella (University of padova), Mauro Andriollo* (University of Padova), Fabio Graziottin (University of Padova)
14:40-15:00	ID: 243 Experimental Validation of a Dynamic Energy Model of a Battery Electric Vehicle¶ Alfonso Damiano* (Università di Cagliari), Claudia Musio (Università di Cagliari), Ignazio Marongiu (Università di Cagliari)
15:00-15:20	ID: 310 Performance evaluation of MPPT techniques for PV array incorporated into Electric Vehicle roof¶ Athanasios Sarigiannidis* (NTUA), Spyridon Stathis (National Technical University of Athens), Antonios Kladas (National Technical University of Athens)

15:20-15:40	ID: 334 Utilisation of Battery Electric Vehicles and Extended Range Electric Vehicles in a Field Test¶ <i>Philipp Spichartz (Ruhr-University Bochum), Philip Dost* (Ruhr-Universität Bochum), Constantinos Sourkounis (Ruhr-University Bochum)</i>
15:40-16:00	ID: 335 Development of a Testing Device for Electric Vehicles Chargers¶ <i>Abdoulkarim Bouabana* (RuhrUniversity Bochum, EneSys), Constantinos Sourkounis (Ruhr-University Bochum; EneSys)</i>
16:00-16:20	COFFEE BREAK
TRACK 8	SESSION CHAIR:
16:20-16:40	ID: 447 Reliability Assessment of Grid Connected Photovoltaic Generation Systems¶ <i>Ahmed Mustafa* (Future university in egypt)</i>
16:40-17:00	ID : 227 Parameter Extraction From a Typical PV Module Using a Metaheuristic Technique <i>Nedim Tutkun*(Duzce University) Erdem Elibol(Düzce University) Melih Aktas(Düzce University)</i>
17:00-17:20	ID: 455 Generalized Voltage Droop Strategy for Power Synchronization Control in Multi-Terminal DC Grids - an Analitical Approach¶ <i>Kumars Rouzbehi* (SEER-UPC), Weiyi Zhang (UPC/SEER), Jose ignacio Candela (SEER-UPC), Alvaro Luna (UPC), Pedro Rodriguez (UPC.Abengoa)</i>
17:20-17:40	ID: 448 Combination of Optimal DC Power Flow and Generalized Voltage Droop Control for Automation of Multi-Terminal DC Grids¶ <i>Kumars Rouzbehi* (SEER-UPC), Elyas Rakhshani (UPC), Alvaro Luna (UPC), Pedro Rodriguez (UPC.Abengoa)</i>
17:40-18:00	ID: 450 Generalized Voltage Droop Control with Inertia Mimicry Capability – Step Towards Automation of Multi-terminal HVDC Grid¶ <i>Kumars Rouzbehi* (SEER-UPC), Weiyi Zhang (SEER-UPC), G.B. Gharehpetian (Amir kabir university), Alvaro Luna (UPC), Pedro Rodriguez (UPC.Abengoa)</i>
Date: Nov 24, 2015 - PM HALL:	
TRACK	SESSION CHAIR:
14:20-14:40	ID: 101 Experimental Investigation of Two Modified Energy-Saving Constructions of Solar Greenhouses¶ <i>Vladimir Ermuratskii (Academy of Sciences of Moldova), Valentin Oleschuk* (Academy of Sciences of Moldova), Frede Blaabjerg (Aalborg University, Denmark)</i>
14:40-15:00	ID: 135 Improved Integration of Medium Scale PV Plants on the Distribution Network¶ <i>Amro Tabari* (Loughborough University), Charlotte Higgins (TNEI Services Ltd.), Philip Bale (Western Power Distribution)</i>
15:00-15:20	ID: 138 Verification of Consumer's Benefits for Different Area Ratio of PV Array and Solar Thermal Water Heater Considering Regional Characteristics¶ <i>Yusuke Yoshida* (Tokyo University of Science), Yuzuru Ueda (Tokyo University of Science)</i>

15:20-15:40	ID: 140 A new approach of improvement of a dissipation caused by capacitance between primary and secondary windings of LLC transformer.¶ <i>TOSHIYUKI WATANABE* (Shindengen Electric Mfg. Co.), Tetsuya Oshikata (Shindengen electric manufacturing co.ltd), Kimihiro nishijima (Oita University), Fujio Kurokawa (Nagasaki University)</i>
15:40-16:00	ID: 141 Study on the Light Receiving Capacity of a Plant Shoot Light Receiving System with Simulated Trees¶ <i>Takuya Adachi* (Kitami Institute of Technology), shin'ya Obara (KITAMI Institute of Technology), Osamu Kawae ()</i>
16:00-16:20	COFFEE BREAK
TRACK 5	SESSION CHAIR:
16:20-16:40	ID: 74 A Novel Topology and Its Control of Single-Phase Electric Springs¶ <i>Wang Qingsong (Southeast University), ming cheng* (), Zhe Chen (Aalborg University), Giuseppe Buja (University of Padova)</i>
16:40-17:00	ID: 119 Study on Effect of Ship Low Frequency Vibration on the Output Characteristics of PV Cells under Different Solar Irradiation¶ <i>Yan Zhang* (Wuhan University of Technology), Yuwei SUN (Wuhan University of Technology), Hu Luo (), Yang Wang ()</i>
17:00-17:20	ID: 120 Design, Implementation and Testing of Theft and Maintenance Monitoring of Batteries of Stand-alone SPV systems¶ <i>Dakshayani Jangamshetti* (Basaveshwar Engg College), Suresh Jangamshetti (Basaveshwar Engg College)</i>
17:20-17:40	ID: 98 An Economic Analysis of a Geothermal Drilling Operation <i>İbrahim Ermiş* (Gen. Dir.of Min. Res. and Exp.)</i>
17:40-18:00	ID: 259 Behavior of a photovoltaic inverter under sudden increase in irradiance due to reflection in clouds¶ <i>Ruben Inzunza* (TMEIC), Yoshihiro Tawada (TMEIC), Motoko Furukawa (), Takeshi Sumiya (TMEIC), Tsuguhiro Tanaka (TMEIC), Masahiro Kinoshita (TMEIC), Naoya Shibata (TMEIC)</i>
Date: Nov 24, 2015 - PM HALL:	
TRACK	SESSION CHAIR:
14:20-14:40	ID: 167 Implementation of an E-bike Sharing System: The Effect on Low Voltage Network using PV and Smart Charging Stations¶ <i>Dimitrios Thomas (ERA Chair 'Net-Zero Energy Efficiency on City Districts', RIE/UMONS), Vasiliki Klonari (Electrical Engineering Department, University of Mons), Francois Vallee (General Physics Department, University of Mons), CHRISTOS IOAKIMIDIS* (UMONS)</i>
14:40-15:00	ID: 373 Distribution Grid Analysys through PSAT Open Source Tools¶ <i>Antonino Barberi* (Pidienne Consulting), Luigi Francesco Solarino (), Diego La Cascia (Università degli Studi di Palermo), ROSARIO MICELI (UNIVERSITA' DI PALERMO), Gaetano Zizzo (Università degli studi di Palermo)</i>

15:00-15:20	ID: 150 A novel topology for improved DC bus utilization in PMSG based wind energy generation system¶ <i>Ramachandra Sekhar Kondapalli* (Hitachi India Pvt Ltd), Rohan Barot (Hitachi India pvt ltd), Prashant Patel (Hitachi India pvt ltd), Vinoth kumar N (Hitachi India pvt ltd)</i>
15:20-15:40	ID: 319 Improvement in Transient Response of Fast P Control DC-DC Converter with Static Model¶ <i>Yudai Furukawa* (Nagasaki University), Shingo Watanabe (Nagasaki University), Fujio Kurokawa (Nagasaki University), Haruhi Eto (NiAS), Nobumasa Matsui (NiAS), Ilhami Colak (Istanbul Gelisim University)</i>
15:40-16:00	ID: 235 Dual input-Dual output Single Inductor DC-DC Converter for Renewable Energy Applications¶ <i>Zubair Rehman* (Massey University), Ibrahim Al Bahadly (Massey University), Subhas Mukhopadhyay (Massey University)</i>
16:00-16:20	COFFEE BREAK
TRACK	SESSION CHAIR:
16:20-16:40	ID: 331 Electrotechnical investigation of Zinc-Air Cells for determination of Cell-Parameters for a Battery Management System¶ <i>Erol Şanal (Ruhr-Univeristy Bochum), Philip Dost* (Ruhr-Universität Bochum), Constantinos Sourkounis (Ruhr-University Bochum)</i>
16:40-17:00	ID: 341 Comparative study of two control methods for a boost converter with LC input filter: indirect sliding-mode and flatness based control¶ <i>Matheepot Phattanasak* (KMUTNB), Roghayeh Gavagsaz-Ghoachani (), Jean-Philippe Martin (), Babak Nahid-mobarakeh (), Serge Pierfederici ()</i>
17:00-17:20	ID: 323 An Adaptive Repetitive Controller for Three-Phase PWM Regenerative Rectifiers <i>Rabia Nazir* (University of Canterbury), Alan Wood (University of Canterbury), Hamish Laird (University of Canterbury), Neville Watson (University of Canterbury)</i>
17:20-17:40	ID: 333 Charging Behaviour of Users Utilising Battery Electric Vehicles and Extended Range Electric Vehicles within the Scope of a Field Test¶ <i>Philip Dost* (Ruhr-Universität Bochum), Philipp Spichartz (Ruhr-Univeristy Bochum), Constantinos Sourkounis (Ruhr-University Bochum)</i>
17:40-18:00	ID: 134 Thermodynamic evaluation for a small scale compressed air energy storage system by integrating renewable energy sources¶ <i>Alexandru Ciocan* (Ecole des Mines de Nantes), Mohand Tazerout (Ecoles des Mines de Nantes), Tudor Prisecaru (University Politehnica of Bucharest), Jean-Felix Durastanti (Universite Paris Est Creteil)</i>
Date: Nov 24, 2015 - PM	
HALL:	
TRACK	SESSION CHAIR:
14:20-14:40	ID: 142 Planning of the Optimal Distribution of Renewable Energy in Hokkaido, Japan <i>Yuta Utsugi* (KITAMI Institute of Technology), shin'ya Obara (KITAMI Institute of Technology), Okada Masaki (Asahikawa National College of Technology), Yuji Ito (KITAMI Institute of Technology)</i>

14:40-15:00	ID: 146 Contribution of a Hydrogen Storage-Transportation System to the Frequency Regulation of a Microgrid <i>Jorge Morel* (Kitami Institute of Technology), shin'ya Obara (KITAMI Institute of Technology), Katsuaki Sato (), Daisuke Mikawa (), Hiroshi Watanabe (), Tsunashi Tanaka ()</i>
15:00-15:20	ID: 153 The compliant integration of (renewable) power sources in MV or LV grids and the impact on grid reliability <i>Florian Javernik* (TU Graz), Elisabeth Hufnagl (TU Graz), Maria Aigner (TU Graz), Ernst Schmutzner (TU Graz)</i>
15:20-15:40	ID: 293 Development of a Real-Time Hardware-in-the-Loop Platform for Complex Microgrids <i>Adel Nasiri* (University of Wisconsin Milwaukee), Abedalsalam Bani-Ahmed (UW-Milwaukee)</i>
15:40-16:00	ID: 15 Dual DC-DC Converter Design for String Inverters Used in Solar Plants¶ <i>ERSAN KABALCI* (Nevsehir Haci Bektas Veli University), Yasin Kabalci (""Nigde Vocational College of Technical Sciences, Nigde University""), Goksel Gokkus ()</i>
16:00-16:20	COFFEE BREAK
TRACK 5 SESSION CHAIR:	
16:20-16:40	ID: 260 Energy Management of Hybrid Microgrid with Hybrid Energy Storage System¶ <i>Srikanth Kotra* (IIT Madras), Mahesh Mishra (Indian Institute of Technology Madras)</i>
16:40-17:00	ID: 305 Power Curve Modelling of a Wind Turbine for monitoring its behaviour¶ <i>Miguel ?ngel Sanz Bobi* (Institute of Technological Research), Rodrigo Jos? Andrade Vieira (IIT - Comillas)</i>
17:00-17:20	ID: 322 System Specification for a DC Community Microgrid and Living Laboratory Embedded in an Urban Environment¶ <i>Robert Cuzner* (University of Wisconsin-Milwau), Karthik Palaniappan (University of Wisconsin-Milwaukee), John Shen (Illinois Institute of Technology)</i>
17:20-17:40	ID: 391 Dynamic Stator-Flux-Oriented Induction Machine Control for Electric Vehicle Application¶ <i>Volker Staudt* (Ruhr-University Bochum), Axel Rothstein (Ruhr-University Bochum), Daniel Meyer (Avasition GmbH), Carsten Heising (Avasition GmbH)</i>
17:40-18:00	ID: 392 Dynamic Four-Quadrant Converter Control for Grid Connection of Renewable Energy Sources¶ <i>Volker Staudt* (Ruhr-University Bochum), Axel Rothstein (Ruhr-University Bochum), Daniel Meyer (Avasition GmbH), Carsten Heising (Avasition GmbH)</i>

POSTER SESSION-1 (Nov 24, 2015 TUESDAY, 12:20-14:20) HALL:	
TRACK SESSION CHAIR:	
ID: 22	Analytical Estimation in APF Sizing for Networks of Analogous Loads
<i>Mohamed Tarnini* (Beirut Arab University), Alaaeddine Abdallah (Beirut Arab University)</i>	

ID: 385	Assessment of the technical and economic potential of offshore wind energy via a GIS application. A case study for the Sicily Region.	Marco Beccali* (DEIM - Univ. of Palermo), jose massimiliano galletto (), leonardo noto (DICAM - UNIPA), Roberto Provenza ()
ID: 420	Smart Urban Electric Transport System: an innovative real model¶	Luigi Mingrone* (), Gianbattista Pignataro (), Mariacristina Roscia (University of Bergamo, Italy)
ID: 367	LCOE for Zero-Energy Greenhouse	Silvano Vergura* (Politecnico di Bari), Giuliano Patrono (), Alessandro Massi Pavan (University of Trieste (Italy))
ID: 131	Hybrid AC-DC electrical installations on low-voltage level	Abdulah Aksamovic* (Faculty of Electrical Engeener)
ID: 314	Quantum photovoltaic effect:Two photon process in solar cell	Dilan ALP* (Sirnak University)
ID: 29	Extending Flight Endurance of Electric Unmanned Aerial Vehicles through Photovoltaic System Integration	Gustavo Bertoli* (Instituto Tecnologico de Aeronautica (ITA)), Gefeson Pacheco (), Geraldo Adabo (ITA)
ID: 40	Local Demand Response and Load Planning System for Intelligent Domestic Appliances	Karl Stephan Stille* (University Paderborn), Joachim Böcker (University Paderborn)
ID: 88	Harvesting electric power with a cane for radio communications.	Hiroki Sato* (Tokyo University of Sience), Toshiaki YACHI (Tokyo University of Science)
ID: 113	Green energy from the ocean	Stefan Balluff* (University of Paderborn), Jörg Bendfeld (University of Paderborn), Stefan Krauter (Kompetenzzentrum für nachhaltige Energietechnik)
ID: 114	Short term wind and energy prediction for offshore wind farms using neural networks	Stefan Balluff* (University of Paderborn), Jörg Bendfeld (University of Paderborn), Stefan Krauter (Kompetenzzentrum für nachhaltige Energietechnik)
ID: 128	Energy Storage Sizing by Stochastic Optimization for a Combined Wind-Wave-Diesel Supplied System	Héctor Marañón Ledesma* (-), Elisabetta Tedeschi (Norwegian University of Science and Technology - NTNU)
ID: 182	Estimation of Harvestable Energy from Vehicle Waste Heat	G Reddy* (Lamar University), Utsav Maniyar (Lamar University), Vivek Venkatesan (Lamar University)
ID: 164	Daily Global Solar Radiation Forecasting Over a Desert Area Using NAR Neural Networks Comparison with Conventional Methods	Kacem GAIRAA* (URAER/EPST CDER), Abdallah Khellaf (), Farouk Chellali (), Youcef Messlem (), Said Benkaciali ()

ID: 200	Control	System	of	Voltage	Source	Converter	to	Interconnect	Offshore	AC	Hub	with	Multiple	Onshore	Grids					
Muhammad Raza* (CITCEA UPC), Oriol Gomis-Bellmunt ()																				
ID: 348	Methodology	for	the	Volume	Minimization	in	Non-Isolated	SiC	Based	PV	Inverters									
Wei Fu (University of Wisconsin-Milwaukee), Qianqian Jiao (University of Wisconsin-Milwaukee), Rasoul Hosseini (University of Wisconsin-Milwaukee), Robert Cuzner* (University of Wisconsin-Milwau), Andrew Lemmon (University of Alabama)																				
ID: 24	Impact	of	Photovoltaic	Integration	on	Voltage	Variation	of	Brazilian	Secondary	Network	Distribution	System							
Leonardo Bitencourt (Universidade Federal Fluminens), Annelys Schetinger (Universidade Federal Fluminense), Bruno Borba (Universidade Federal Fluminense), Daniel Dias* (Universidade Federal FLuminense), Rena Maciel (Universidade Federal Fluminense)																				
ID: 37	Design	and	Development	of	Canal	Ship	Based	on	Overhead	Wires										
Jianglong WAN* (Wuhan University of Technology), Xinping YAN (), Qizhi YIN (), Yupeng YUAN (), Kai Wang (), Qizhen Jiang ()																				
ID: 55	A	hybrid	low-power	system	used	to	supply	a	local	consumer										
Dan Gabriel Stanescu* (Univeristy of Craiova, Faculty), Mircea Emilian Ardeleanu (university of craiova), Remus Constantin Popescu (university of craiova)																				
ID: 57	Power	monitoring	based	photovoltaic	installation	fault	detection													
Yves Stauffer* (CSEM), Andreas Hutter (CSEM), Damien Ferrario (CSEM), Emmanuel Onillon (CSEM)																				
ID: 110	Comparison	of	different	carbon-free	near	surface	heating	and	cooling	sources	usability	in	low	energy	network					
Anne Mäkiranta* (University of Vaasa), Birgitta Martinkauppi (University of Vaasa), Erkki Hiltunen (University of Vaasa), Mauri Lieskoski (Geo-Pipe GP Oy)																				
ID: 250	An	optimized	fuzzy	controller	to	capture	optimal	power	from	wind	turbine									
HADJER DARI* (University of skikda algeria), LAMINE MEHENAOUÏ (university of skikda algeria), Messaoud Ramdani (university of annnaba skikda)																				
ID: 290	Operation	of	rural	distribution	grids	with	intermittent	generation	in	connected	and	island	mode	using	the	open	source	EMS	solver	SCIP
Francesc Girbau-Llistuella* (CITCEA-UPC), Andreas Sumper (CITCEA-UPC), Volker Buehner (KISTERS AG), Ramon Gallart-Fernandez (Estabanell Energia)																				
ID: 233	Development of simple estimation model for aggregated residential load by using temperature data in multi-region																			
Eiki Arai* (Tokyo University of Science), Yuzuru Ueda (Tokyo University of Science)																				
ID: 297	An	advanced	measurement	equipment	for	the	tracing	of	photovoltaic	panel	I-V	curves								
Francesco Riganti Fulginei* (Roma Tre University), Alessandro Salvini (Roma Tre University), Antonino Laudani (Roma Tre University), Stefano Gaiotto (Roma Tre University)																				

ID: 158 Simulation and Design of a Fast Charging Battery Station in a Parking Lot of an e-Carsharing System
Konstantinos Genikomsakis (DeustoTech Energy, University of Deusto), Ignacio Angulo Gutierrez (Engineering Design, KTH Royal Institute of Technology), Dimitrios Thomas (ERA Chair 'Net-Zero Energy Efficiency on City Districts', RIE/UMONS), CHRISTOS IOAKIMIDIS (UMONS)*

ID: 147 Six-Phase Vehicular Drive with Renewable DC Sources and Hybrid PWM Control of Four Inverters
Valentin Oleschuk (Academy of Sciences of Moldova), Vladimir Ermuratskii (Academy of Sciences of Moldova), Frede Blaabjerg (Aalborg University, Denmark)*

ID: 451 Study on the Hybrid GCHP System with a Desuperheater
Ping Cui ()*

ID: 388 Physiological compatibility of wireless chargers for electric bicycles
Filippo Pellitteri (UNIPA), Guido Ala (), Salvatore Ganci (), ROSARIO MICELI (UNIVERSITA' DI PALERMO), Massimo Caruso ()*

Date: Nov 25, 2015		HALL:
08:30–17:00	Registration	
ORAL PRESENTATIONS		
Date: Nov 25, 2015 - AM		HALL:
TRACK 1	SESSION CHAIR:	
09:00-09:20	ID: 151 Effects of Low and High-Frequency Current Ripple on Proton Exchange Membrane Fuel Cells: State-of-The-Art and Remaining Challenges <i>Damien Guilbert* (FEMTO-ST Institute, Energy Dep), Abdoul N'Diaye (), Arnaud Gaillard (FEMTO-ST Institute, Energy Department (UMR CNRS 6174), UBFC/UTBM, 90010 Belfort,), abdesslem djerdir (UTBM)</i>	
09:20-09:40	ID : 469 A back to back method for the temperature rise test of prefabricated substations: A case study G. Cipriani*() Giovanni Cangemi()	
09:40-10:00	ID : 470 Identification of the parameters of the equivalent electric circuit of electromagnetic harvesters Marco Balato*() Luigi Costanzo() Massimo Vitelli()	

10:00-10:20	ID: 466 Power Electronics – The Key Technology for Renewable Energy System Integration¶ <i>Frede Blaabjerg* (Aalborg University, Denmark), Yongheng Yang (Aalborg University), Ke Ma (Aalborg University), Xiongfei Wang (Aalborg University)</i>
10:20-10:40	ID : 471 Multi-Objective Optimization of PV arrays performances by means of the dynamical reconfiguration of PV modules connections Marco Balato*() Luigi Costanzo() Massimo Vitelli()
10:40-11:00	COFFEE BREAK
TRACK 1	SESSION CHAIR:
11:00-11:20	ID : 472 Comparison on the use of PV systems in the vertical walls Rosario Miceli*(Università Di Palermo)
11:20-11:40	ID: 9 Design of Fault-Tolerant Cascaded H-Bridge Multilevel Inverter with Output-Side Transformers Using Bidirectional Switches¶ <i>Muhammet BİBEROĞLU (Yalova University), Kayhan Ince* (Turkish-German Üiversity), Filiz KARAOSMANOĞLU (İstanbul Technical University)</i>
11:40-12:00	ID: 11 Application of brushless excitation system in Wind power generation¶ <i>SARMISTHA MISHRA* (KIIT), aKSHAY KUMAR (KIIT)</i>
12:00-12:20	ID: 465 Energy transport modeling of PV/T collectors¶ Istvan Ervin Haber* (University of Pecs, Faculty of Engineering)
12:20-12:40	ID : 473 Economic benefits of the use of a PV plants reconfiguration systems Fabio Viola*(Unipa)
12:40-14:00	LUNCH BREAK
Date: Nov 25, 2015 - PM HALL:	
TRACK 1	SESSION CHAIR:
14:00-14:20	ID : 474 Experimentation of Sustainable Energy Microsystems: the DE.DU.ENER.T. Research Project Gaetano Zizzo*(Università Degli Studi Di Palermo)
14:20-14:40	ID: 68 Evaluating Method of Effectiveness of Light Energy's Utilization Based on Service Requirement¶ <i>Bingzhuo Zhong (Tongji University,China), Xiaolong Li* (Tongji University,China), Ziyang Zou ()</i>
14:40-15:00	ID: 86 Feasibility of Heat Recovery for District Heating Based on Cloud Computing Industrial Park¶ <i>Feng Huang* (Chongqing University), Jun Lu (), Jie Zheng (), Jean-Michel Baleynaud (Laboratoire PHASE, UPS III)</i>
15:00-15:20	ID : 152 Stator Current Signature Analysis in Permanent Magnet Synchronous Wind Generators Fault Diagnosis Luigi Pio Di Noia*(University Of Napoli) Cosimo Pisani(Unisannio) Andre Del Pizzo(Unina)

15:20-15:40	ID: 112 A Switched Reluctance Motor Drive using Photovoltaic Transistors: Principle, Prototype, Experimental and Numerical Results <i>Loic Queval* (University of Cergy-Pontoise), Alain Coty (Saurea), Lionel Vido (SATIE CNRS), Raimund Gottkehaskamp (Hochschule Düsseldorf), Bernard Multon (SATIE CNRS)</i>
15:40-16:00	COFFEE BREAK
TRACK 4	SESSION CHAIR:
16:00-16:20	ID: 136 Mathematical & CFD analysis of free floating heave-only body <i>Ken O Connell* (Cork Institute of Technology), Andrew Cashman (Cork Institute of Technology)</i>
16:20-16:40	ID:224 Measuring discontinuity shape using laser displacement sensor ~Influence of measurement edge shape~ <i>Daisuke Abe* (University of Nagasaki), Tatsuki Otsubo (Salesian Polytechnic), Takanori Yazawa (University of Nagasaki), Reiko Yamada (University of Nagasaki)</i>
16:40-17:00	ID: 220 The Chances and Challenges for Renewable Energy in Libya <i>Ashraf Khalil* (University of Benghazi), Ali Asheibi (University of Benghazi)</i>
17:00-17:20	ID: 184 Comparison of Thermal and Optical Performance of Linear Fresnel and Parabolic Trough Concentrator <i>Fabio Montagnino* (Consorzio ARCA), Mohamed Ahmed (Solar Energy Dept., National Research Center Cairo, Egypt), Mohamed Rady (Faculty of Engineering, Helwan University Cairo, Egypt), Amr Amin (Helwan University), Filippo Paredes (Consorzio ARCA (Italy))</i>
17:20-17:40	ID: 476 Novel Energy Modelling and Forecasting Tools for Smart Energy Networks <i>Ganesh Sauba* (SR&I, Power & Electrification DNV GL)</i>
Date: Nov 25, 2015 - AM HALL:	
TRACK	SESSION CHAIR:
09:00-09:20	ID: 168 Amelioration of a greenhouse through energy storage system Case study: Ghardaïa region (Algeria) <i>Salah BEZARI* (URAER/EPST CDER), Sidi Mohamed Elamine Bekkouche (), Ahmed Benchatti (), Hocine Benssaha ()</i>
09:20-09:40	ID: 175 An Ideal Generation System for Streamflow, Tidal and Ocean Currents -Installation of Biomimetic Sealing System- <i>Takuro Honda* (Kumamoto University), Yoshitaka NAKANISHI (), Hidehiko Higaki (Kyushu Sanyo University)</i>
09:40-10:00	ID: 65 Overvoltage Mitigation in Open Winding AC Motor Drives <i>Giacomo Scelba* (University of Catania), Giuseppe Scarcella (University of Catania), Antonio Testa (University of Messina), Salvatore Foti (University of Messina), Mario Cacciato (University of Catania), Salvatore De Caro (University of Messina)</i>
10:00-10:20	ID: 204 An Improved dynamic battery model suitable for photovoltaic applications <i>Samir Moulahoum* (University of Médéa), Sid-ali Blaifi (Research Laboratory LREA, University of Médéa), Nadir Kabache (Research Laboratory LREA, University of Médéa), Ilhami Colak (Istanbul Gelisim University)</i>

10:20-10:40	ID: 210 Data Mining Based Performance Analysis for Solar PV Power System Data – UCAS Case Study¶ <i>Mohamed Almadhoun* (University College of Applied)</i>
10:40-11:00	COFFEE BREAK
TRACK	SESSION CHAIR:
11:00-11:20	ID: 247 High Step-Up Interleaved Converter for Renewable Energy and Automotive Applications¶ <i>Wilmar Martinez* (Shimane University), Jun Imaoka (Shimane University), Masayoshi Yamamoto (), Kazuhiro Umetani (Okayama University)</i>
11:20-11:40	ID: 276 Parallelization of Medium Voltage Generator-Side Converters for Multi-MW Wind Turbines: comparison of two topological alternatives¶ <i>Luca Costanzo (Polytechnic of Milan), Ignacio Zubimendi (Ingeteam Power Technology S.A.), Abel Taffese* (Norwegian University of Science and Technology (NTNU)), Elisabetta Tedeschi (Norwegian University of Science and Technology - NTNU)</i>
11:40-12:00	ID: 281 Seamless Star-Delta Winding Changeover Circuit for AC Generators¶ <i>Jun-ichi Itoh (Nagaoka University of Tec.), Kazuma Tanimukai* (Nagaoka University of Tech.)</i>
12:00-12:20	ID: 298 Control of Generator- and Grid-side Converter for the Interior Permanent Magnet Synchronous Generator¶ <i>Tin Bariša* (Faculty of Electrical Engineering and Computing, Zagreb, Croatia), Damir Sumina (Faculty of Electrical Engineering and Computing), Martina Kutija (Faculty of Electrical Engineering and Computing)</i>
12:20-12:40	ID: 299 Battery Energy Storage System with Isolated Single-phase Matrix Converter using Center-tapped Transformer for Power Decoupling Capability¶ <i>Nagisa TAKAOKA* (Nagaoka University of Technolo), Jun-ichi Itoh (Nagaoka University of Tec.)</i>
12:40-14:00	LUNCH BREAK
Date: Nov 25, 2015 - PM	
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TRACK	SESSION CHAIR:
14:00-14:20	ID: 265 A Non-Linear Dynamic Electrical Model of Sodium-Nickel Chloride Batteries¶ <i>Maura Musio* (University of Cagliari), Alfonso Damiano (Università di Cagliari)</i>
14:20-14:40	ID: 241 Assesment of the effects of medium composition on growth, lipid accumulation and lipid profile of Chlorella vulgaris as a biodiesel feedstock¶ <i>Ecem Kaplan* (Uskudar University), Ceren Gençoğlu (), Doğan Can Kirman (), Orkun Pinar (), Dilek Kazan (), Ahmet Alp Sayar ()</i>
14:40-15:00	ID: 249 Socioeconomic return on community biogas investment Tamanao district, Thailand¶ <i>Apichart Kongpann* (PTT Public Company Limited)</i>

15:00-15:20	ID: 251 Performance Enhancement of Vapor Compression Cycle Using Nano Materials¶ <i>Aly Soliman* (E-Just), Ali Abdel-Rahman (E-Just), Sherif Taher (Benha university), Shinichi OOKAWARA (Tokyo Institute of Technology)</i>
15:20-15:40	ID : 416 An advanced system for power supply and power quality improvement of isolated AC passive networks Luigi Pio Di Noia* (University Of Napoli) R Rizzo()
15:40-16:00	COFFEE BREAK
TRACK	SESSION CHAIR:
16:00-16:20	ID : 475 Survey on power increase of power by employment of PV reconfigurator Fabio Viola* (Unipa)
16:20-16:40	ID: 381 Grid Connected Solar Photovoltaic in Island States: Challenges, Opportunities & Waste Management.¶ <i>Ngalula Mubenga* (University of Toledo)</i>
16:40-17:00	ID : 463 Urban morphology and energy consumption in Italian residential buildings Michele Pastorelli*()
17:00-17:20	ID : 470 Identification of the parameters of the equivalent electric circuit of electromagnetic harvesters Marco Balato*() Luigi Costanzo() Massimo Vitelli()
17:20-17:40	ID : 471 Multi-Objective Optimization of PV arrays performances by means of the dynamical reconfiguration of PV modules connections Marco Balato*() Luigi Costanzo() Massimo Vitelli()
Date: Nov 25, 2015 - AM HALL:	
TRACK	SESSION CHAIR:
09:00-09:20	ID: 256 Model-based Analysis of a High Temperature Proton Exchange Membrane Fuel Cell Micro-Cogeneration System¶ <i>Myalelo Nomnqa* (Cape Peninsula University of T), Daniel Ikhu-Omoregbe (Cape Peninsula University of Technology), Ademola Rabi (Cape Peninsula University of Technology)</i>
09:20-09:40	ID: 266 A Microgrid Energy Management System Supported by a Hysteresis Vehicle to Grid Controller¶ Alfonso Damiano* (Università di Cagliari), Claudia Musio (Università di Cagliari), Carla Sanna (Sardegna Ricerche), Malgorzata Gawronska (Sardegna Ricerche)
09:40-10:00	ID: 269 Electrostatic Synchronous Generator model of an Inverter-Based Distributed Generators¶ Hakam Shehadeh* (Università degli studi di pale), salvatore Favuzza (University of Palermo), eleonora Riva sanseverino (Università degli Studi di Palermo)
10:00-10:20	
10:20-10:40	
10:40-11:00	COFFEE BREAK
TRACK	SESSION CHAIR:

11:00-11:20	ID: 302 Optimal Cost analysis of Wind-Solar Hybrid System Powered AC and DC Irrigation Pumps using HOMER¶ <i>Basanagouda Ronad* (BEC Bagalkot), Suresh Jangamshetti (Basaveshwar Engg College)</i>
11:20-11:40	ID: 312 Impact of the battery depth of discharge on the performance of photovoltaic hydrogen production unit with energy management strategy¶ <i>Hammou Tebibel* (CDER)</i>
11:40-12:00	ID: 317 Comparative Analysis of P&O, a Modified Hill-Climbing-FLC and Adaptive P&O-FLC MPPTsfor Microgrids Standalone PV System¶ <i>RACHID BOUKENOUÏ (Blida University, LabSet, Faculty of technology, Electronics department, Blida 0), RAFIK BRADAI* (Blida 1 University, LATSI, Faculty of technology, Electronics department, Algeria), ADEL MELLIT (Jijel University, REL, Faculty of Sciences and Technology, Electronics departmen), Malek GHANES (ENSEA), HACEN SALHI (Blida University, LabSet, Faculty of technology, Electronics department, Blida)</i>
12:00-12:20	ID: 330 Performance analysis and simulation of unbalanced dc sources five level inverter topology¶ <i>Concettina Buccella* (University of L'Aquila), Carlo Cecati (University of L'Aquila), M. Gabriella Cimatorini (University of L'Aquila)</i>
12:20-12:40	ID: 338 DESIGN OF POWER CONTROL UNIT FOR HEAT RECOVERY DEVICE USED IN RENEWABLE ENERGY SYSTEM¶ <i>Mehmet Akif Senol* (Istanbul Gelisim University), Fulya Solak (Gazi University), Haluk GOZDE (Gazi University), Cengiz Taplamacioglu (Gazi University)</i>
12:40-14:00	LUNCH BREAK
Date: Nov 25, 2015 - PM HALL:	
TRACK	SESSION CHAIR:
14:00-14:20	ID: 278 Combined Hydrogen Production and Power Generation from Microalgae¶ <i>Aziz Muhammad* (Tokyo Institute of Technology), Takuya Oda (Tokyo Institute of Technology), Takashi Mitani (Tokyo Institute of Technology), Atsuki Uetsuji (Tokyo Institute of Technology), Takao Kashiwagi (Tokyo Institute of Technology)</i>
14:20-14:40	ID: 280 Fault Detection and Diagnosis in a PV Grid Connected T-Type Three Level Inverter¶ <i>V. Fernao Pires* (ESTSetubal/IPS), Daniel Foito (IPS), Tito Amaral (ESTSetubal/IPS)</i>
14:40-15:00	ID: 282 Class-D inverter with MOSFET nonlinear parasitic capacitance¶ <i>Koyo Yonekura (Nagasaki University), Xiuqin Wei* (Nagasaki University), Tomoharu Nagashima (Chiba University), Hiroo Sekiya (Chiba Univiersity), Tadashi Suetsugu (Fukuoka University)</i>
15:00-15:20	ID: 156 The Effect of Technological Innovations on the Cost of the Photovoltaic Electricity¶ <i>Girolamo Di Francia* (ENEA)</i>
15:20-15:40	ID: 301 A Comprehensive Data Processing Approach to the Future Smart Grid¶ <i>Jiro Yamazaki* (The University of Aizu), Daishi Yoshino (The University of Aizu), Hideyuki Fukuhara (The university of Aizu), Takafumi Hayashi (The university of Aizu)</i>
15:40-16:00	COFFEE BREAK

TRACK		SESSION CHAIR:
16:00-16:20		ID: 273 Optimal Design of Cascaded Control Scheme for PV System Using BFO Algorithm¶ <i>Rahila Naseeha* (The petroleum institute), Muyeen S.M (The petroleum institute), Hany HAsenien (), khaled Al wahedi (), Ahamed Al durra (The petroleum institute)</i>
16:20-16:40		
16:40-17:00		ID: 283 Low-loss, High-compression of Energy Profiles¶ <i>Anna Clements* (University of Oxford), Malcolm McCulloch (Oxford University), Kenneth Nixon (University of the Witwatersrand)</i>
17:00-17:20		ID: 286 Wind Energy Conversion System Control using Distinct Controllers for Different Operating Regions¶ <i>Carla Viveiros* (IDMEC/LAETA), Rui Melicio (UEVORA), Jose Igreja (ISEL), Victor Mendes (ISEL)</i>
17:20-17:40		ID: 313 A New Quick Response Digital Control DC-DC Converter with Dynamic Unstable Gain¶ <i>Yudai Furukawa (Nagasaki University), Takuya Shirakawa* (Nagasaki University), Fujio Kurokawa (Nagasaki University), Haruhi Eto (NiAS), Ilhami Colak (Istanbul Gelisim University)</i>
Date: Nov 25, 2015 - AM		HALL:
TRACK		SESSION CHAIR:
09:00-09:20		
09:20-09:40		ID: 292 Frequency-Dependent Modeling of Grounding System in EMTP for Lightning Transient Studies of Grid-Connected PV Systems¶ <i>Adel Nasiri* (University of Wisconsin Milwaukee), Hesam Sadeghi (University of Wisconsin-Milwaukee)</i>
09:40-10:00		ID: 315 Green Data Centres Providing Ancillary Services to Power Grid¶ <i>Diego Arnone* (Engineering I, I.), Antonino Barberi (Pidienne Consulting s.r.l.), Diego La Cascia (Università degli studi di Palermo), eleonora Riva sanseverino (Università degli Studi di Palermo), Gaetano Zizzo (Università degli studi di Palermo)</i>
10:00-10:20		ID: 318 Miniaturization of Buck-Boost DC-DC Converter with Fast P Control¶ <i>Yudai Furukawa (Nagasaki University), Ippei Sugimoto* (Nagasaki University), Fujio Kurokawa (Nagasaki University), Haruhi Eto (NiAS), Tsuyoshi Higuchi (Nagasaki University), Ilhami Colak (Istanbul Gelisim University)</i>
10:20-10:40		
10:40-11:00		COFFEE BREAK
TRACK		SESSION CHAIR:
11:00-11:20		ID: 234 A Fuzzy Tracking Control Design Strategy for Wind Energy Conversion System¶ <i>Djamel OUNNAS* (Departement of Electrical Engi), Messaoud RAMDANI (Departement of Electronics, Badji Mokhtar University-Annaba, Annaba, Algeria), Salah CHINIKHER (LABGET Laboratory, Department of Electrical Engineering, Larbi Tebessi Universit), Tarek BOUKTIR (Departement of Electrical Engineering, Ferhat Abbas University Setif-1, Setif,)</i>

11:20-11:40	ID: 306 Improvement of Current Balanced Parallel Soft-Start Operation for DC-DC Converters with Current Prediction¶ <i>Hidenori Maruta () , Tsutomu Sakai* (Nagasaki University), Fujio Kurokawa (Nagasaki University)</i>
11:40-12:00	ID: 253 Design, Optimization and Analysis of the Axial C-core Switched Reluctance Generator for wind power application¶ <i>Vanessa Teixeira* (UNICAMP), Adson Moreira (Unicamp), Tarcio Barros (Unicamp), Ernesto Ruppert Filho (Unicamp)</i>
12:00-12:20	ID: 355 A TECHNO-ECONOMICAL ANALYSIS OF CHARGE MANAGEMENT IN ELECTRICAL VEHICLES¶ <i>Luigi Schirone* (Sapienza University of Rome), Michele Macellari (Sapienza University of Rome)</i>
12:20-12:40	ID: 437 A semi-analytical model for the analysis of a Permanent Magnet Tubular Linear Generator¶ <i>R Rizzo* (), Antonino Musolino (), Marco Raugi ()</i>
12:40-14:00	LUNCH BREAK
Date: Nov 25, 2015 - PM HALL:	
TRACK	SESSION CHAIR:
14:00-14:20	ID: 320 Development of an Economical Model for a Hybrid System of Grid, PV and Energy Storage Systems¶ <i>Adel Nasiri* (University of Wisconsin Milwaukee), Hamid Seifoddini (UW-Milwaukee), Mohammad Hassan Balali (UW-Milwaukee), Narjes Nouri (UW-Milwaukee)</i>
14:20-14:40	ID: 327 A Consideration of Loss Component in Model Control DC-DC Converter¶ <i>Yudai Furukawa* (Nagasaki University), Shingo Watanabe (Nagasaki University), Nobumasa Matsui (NiAS), Fujio Kurokawa (Nagasaki University), Ilhami Colak (Istanbul Gelisim University)</i>
14:40-15:00	ID: 329 Artificial Neural Network Modelling for Performance Prediction of Solar Energy System¶ <i>Wahiba Yaici* (CanmetENERGY Research Centre/Natural Resources Canada), Evgueniy Entchev (CanmetENERGY/Natural Resources Canada), Michela Longo (Department of Energy/Politecnico di Milano), Morris Brenna (Department of Energy/Politecnico di Milano), Federica Foiadelli (Department of Energy/Politecnico di Milano)</i>
15:00-15:20	ID: 336 Reactive Current Control of a Multi-DC-Voltage Cascade STATCOM¶ <i>Yu Sugahara* (Nagoya Institute of Technology), Takaharu Takeshita (Nagoya Institute of Technology)</i>
15:20-15:40	ID: 340 Preliminary Study on a Fabric-Covered Wind Turbine Blade¶ <i>Jae-Sung BAE* (Korea Aerospace University), Dong-Guk Choi (Korea Aerospace Univeristy), Soo-Yong Lee (Korea Aerospace Univeristy), Dae-Jin Kim (KIER), Cheol Yoo (KIER)</i>
15:40-16:00	COFFEE BREAK
TRACK	SESSION CHAIR:
16:00-16:20	ID : 464 On the Design of Observers Robust to Load Variations for Synchronous Converters <i>Rosario Miceli*(Uninetlab)</i>
16:20-16:40	ID: 198 Maximum Power Point Tracking of PMSG Based Grid Connected WECS using Quadrature Axis Current¶ <i>Damodharan P* (IIITD&M), Rajin Linus (IIITD&M)</i>

16:40-17:00	ID: 209 A Generalized and Flexible Control Scheme for Photovoltaic Grid-Tie Microinverters¶ <i>Serkan Öztürk* (Hacettepe University), Işık Çadırcı (Hacettepe University)</i>
17:00-17:20	ID: 217 CFD Based Wind Assesment in West of Turkey¶ <i>Melike Ayaz* (Gazi University), İlhami Colak (Istanbul Gelisim University), Kurtulus Boran ()</i>
17:20-17:40	ID: 218 Compensator Design Considerations for the LED Driver Circuits with PWM Dimming Capability¶ <i>Chen-Wei Yeh (National Taiwan University), Dan Chen* (National Taiwan University), Sheng-Fu Hsiao (National Taiwan University), Frank Shih (Power Forest Technology Corporation)</i>
Date: Nov 25, 2015 - AM HALL:	
TRACK	SESSION CHAIR:
09:00-09:20	ID: 344 Performance Comparison between Scheduling Strategies for PEVs Charging in Smart Grids¶ <i>Giuseppe Graber* (University of Salerno), Giovanni Massa (University of Salerno), Vincenzo Galdi (University of Salerno), Vito Calderaro (University of Salerno), Antonio Piccolo (University of Salerno)</i>
09:20-09:40	ID: 346 Energy Management of Auxiliary Battery Substation Supporting High-Speed Train on 3 kV DC Systems¶ <i>Vito Calderaro (University of Salerno), Vincenzo Galdi (University of Salerno), Giuseppe Graber* (University of Salerno), Antonio Piccolo (University of Salerno), Regina Lamedica (University of Rome "La Sapienza"), Alfonso Capasso (University of Rome "La Sapienza"), Alessandro Ruvio (University of Rome "La Sapienza")</i>
09:40-10:00	ID: 347 A Day-Ahead Wind Speed Forecasting Using Data-Mining Model - A Feed-Forward NN Algorithm¶ <i>Antonella Finamore* (University of Salerno), Vito Calderaro (University of Salerno), Vincenzo Galdi (University of Salerno), Antonio Piccolo (University of Salerno), Gaspare Conio (IVPC), Salvatore Grasso (IVPC)</i>
10:00-10:20	ID: 351 Short-Circuit Fault Analysis on Microgrid¶ <i>RAMAZAN BAYINDIR* (GAZ? UN?VERSITY), Erdal İrmak (Gazi University), Fatih Issi (Çankırı Karatekin University), Naki Güler (GAZI UNIVERSITY)</i>
10:20-10:40	ID : 462 Electrical Characterization of Low Power CIGSSe Photovoltaic Modules <i>Alessandro Busacca*()</i>
10:40-11:00	Alessandro Busacca*()
TRACK	SESSION CHAIR:
11:00-11:20	ID : 461 Joint Probability Distributions for Wind Speed and Direction. A case study in Sicily. <i>Salvatore Basile*() Riccardo Burlon(University Of Palermo) Francesca Morales()</i>
11:20-11:40	ID: 174 State Estimation of Exhaust Valve Position by Kalman Filter in PEM Fuel Cell Systems¶ <i>Christian Hähnel* (Helmut-Schmidt-University), Vitali Aul (), Martin Schultze (), Joachim Horn ()</i>
11:40-12:00	ID: 181 Voltage Based Droop Control in an Islanded Microgrid with Wind Turbines and Battery Storage¶ <i>Jan Van de Vyver* (Ghent University), Thibaut Feremans (UGent), Tine Vandoorn (Ghent University), Jeroen De Kooning (UGent), Lieven Vandevelde (Ghent University)</i>
12:00-12:20	ID: 191 Coordination of Over Current Relay for Sudden Rise of Input Energy in Renewable Power System¶ <i>Jaeho Choi* (Chungbuk National University), Yeonho Ok (Power 21 Co.), Jaewon Kim (Power 21 Co.)</i>

12:20-12:40	ID: 192 Solar irradiance forecasting using Sequential Monte Carlo method and GOES satellite images¶ <i>Laurent Linguet* (University of French Guiana), Jamal Atif (University of Paris Dauphine)</i>
12:40-14:00	LUNCH BREAK
Date: Nov 25, 2015 - PM HALL:	
TRACK	SESSION CHAIR:
14:00-14:20	ID: 366 Improvement of Optimizing Operation Method for Energy Saving of Large Electric Machine in Combined Heat and Power Plant¶ <i>Nobumasa Matsui* (NIAS)</i>
14:20-14:40	ID: 370 A Study on Transient Response of Digital PID Control for DC-DC Converter with Weighted Predictions of Neural Network¶ <i>Hidenori Maruta (), Hironobu Taniguchi* (Nagasaki University), Fujio Kurokawa (Nagasaki University)</i>
14:40-15:00	ID: 376 Efficiency Improvement of Pumped Storage System for MW Scale Off-grid PV Plants¶ <i>Andreea Busca-Forcos* (Transilvania University), Dezso Sera (Aalborg University), Cristian Busca (Aalborg University), Corneliu Marinescu (Transilvania University), Remus Teodorescu (Aalborg University)</i>
15:00-15:20	ID: 377 Optimization Design of Novel Zero-crossing Point Detection Method for Boundary Current Mode PFC Converter¶ <i>Jizhe Wang* (Nagasaki University), Kazuki Yoshimura (Nagasaki University), Fujio Kurokawa (Nagasaki University)</i>
15:20-15:40	ID: 397 A Laboratory Setup for the Evaluation of the Effects of BACS and TBM Systems on Lighting¶ <i>Gaetano Zizzo* (Università di Palermo), Mariano Ippolito (Università di Palermo), Marco Beccali (Università di Palermo), Marina Bonomolo (Università di Palermo), Alessandra Galatioto (Università di Palermo)</i>
15:40-16:00	COFFEE BREAK
TRACK	SESSION CHAIR:
16:00-16:20	ID: 93 Analysis of Fuel Supply in Zigzag-type DMFC with Channels by Three-Dimensional Simulation¶ <i>Mio Iijima* (Tokyo University of Science), Toshiaki YACHI (Tokyo University of Science)</i>
16:20-16:40	ID: 95 Winding Reconstruction Based on Magnetic Flux Density in Air-gap of IM¶ <i>Radoslav Cipin* (Brno University of Technology), Petr Prochazka (Brno University of Technology), Ivo Pazdera (Brno University of Technology)</i>
16:40-17:00	ID: 97 Battery-Supercapacitor Hybrid Energy Storage System with Reduced Low Frequency Input Current Ripple¶ <i>Damith Wickramasighe Abeywardana* (University of New South Wales), Branislav Hredzak (The University of New South Wales), Vassilios Agelidis (The University of New South Wales)</i>
17:00-17:20	ID: 115 Multi-agent Based Power and Energy Management System for Hybrid Ships¶ <i>Daogui Tang* (Wuhan University of Technology), Xiping YAN (), Yupeng YUAN (), Kai Wang (), Liqiang Qiu (China Ocean Shipping (Group))</i>

17:20-17:40	ID: 122 The I-V Characteristics of Solar Cell under the Marine Environment: Experimental Research¶ <i>Yuwei SUN* (Wuhan University of Technology), Xinpeng YAN (), yuwei Sun (), Hu Luo (), Qizhen Jiang ()</i>
Date: Nov 25, 2015 - AM HALL:	
TRACK	SESSION CHAIR:
09:00-09:20	ID: 405 Automatic Solar Photovoltaic Panel Detection in Satellite Imagery¶ <i>Jordan Malof* (Duke University), Rui Hou (Duke University), Kyle Bradbury (), Richard Newell (Duke University), Leslie Collins (Duke University)</i>
09:20-09:40	ID: 419 A comprehensive model for the optimal design and management of Distributed Generation systems¶ <i>michele anatone* (università di l'aquila), VALENTINA PANONE (Universita' l'aquila)</i>
09:40-10:00	ID: 422 Solar Energy Potential of Konya and Architectural Design Criterias for Solar Energy Efficiency¶ <i>BILGEHAN YILMAZ CAKMAK* (SELCUK UNIVERSITY)</i>
10:00-10:20	ID : 431 Mobility scenarios in the Valley of the Temples <i>Maurizio Cellura*()</i>
10:20-10:40	
10:40-11:00	COFFEE BREAK
TRACK	SESSION CHAIR:
11:00-11:20	
11:20-11:40	
11:40-12:00	
12:00-12:20	
12:20-12:40	
12:40-14:00	LUNCH BREAK
Date: Nov 25, 2015 - PM HALL:	
TRACK	SESSION CHAIR:
14:00-14:20	
14:20-14:40	
14:40-15:00	
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15:20-15:40	
15:40-16:00	COFFEE BREAK