

20.11.2016 Sunday		21.11.2016 Monday		22.11.2016 Tuesday		23.11.2016 Wednesday	
08:30-17:00	Registration						
	Program		Program		Program		Program
13:00-14:00	TUTORIAL-1 Professor Stanimir Valtchev Universidade Nova de Lisboa, Portugal	09:00-09:30	Opening Ceremony	09:00-09:45	KEYNOTE SPEECH-3 Professor Adel Nasiri University of Wisconsin-Milwaukee, USA	09:00-09:20	ORAL PRESENTATION (5 PARALEL SESSION) 5 PAPERS*20 MINUTES 25 PAPERS
		09:30-10:30	KEYNOTE SPEECH-1 Professor Dan M. Ionel, University of Kentucky, USA	09:45-10:30		KEYNOTE SPEECH-4 Dr. Yousuke Nozaki, NTT Facilities, Japan	
						09:40-10:00	
						10:00-10:20	
						10:20-10:40	
14:10-15:10	TUTORIAL-2 Dr Khaled H. Ahmed University of Aberdeen, UK	10:30-11:00	COFFEE BREAK			10:40-11:00	COFFEE BREAK
		11:00-12:00	KEYNOTE SPEECH-2 Professor Rik De Doncker, Aachen University, Germany	11:00-12:00	KEYNOTE SPEECH-5 Professor Rosario Miceli University of Palermo, Italy	11:00-11:20	ORAL PRESENTATION (5 PARALEL SESSION) 4 PAPERS*20 MINUTES 20 PAPERS
				11:20-11:40			
					11:40-12:00		
15:20-16:20	TUTORIAL-3 Profesor Carlos Ferreira Fernandes, Lisbon University, Portugal,	12:00-13:00	LUNCH BREAK			12:20-13:20	LUNCH BREAK
		12:20-14:20	POSTER PRESENTATION (30 PAPERS)	12:20-14:20	POSTER PRESENTATION (30 PAPERS)	12:20-14:20	POSTER PRESENTATION (30 PAPERS)
		14:20-14:40	ORAL PRESENTATION (4 PARALEL SESSION) 5 PAPERS*20 MINUTES 20 PAPERS	14:20-14:40	ORAL PRESENTATION (5 PARALEL SESSION) 5 PAPERS*20 MINUTES 25 PAPERS	14:20-14:40	ORAL PRESENTATION (5 PARALEL SESSION) 5 PAPERS*20 MINUTES 25 PAPERS
		14:40-15:00		14:40-15:00			
		15:00-15:20		15:00-15:20			
		15:20-15:40		15:20-15:40			
		15:40-16:00		15:40-16:00			
		16:00 16:20	COFFEE BREAK	16:00 16:20	COFFEE BREAK	16:00 16:20	COFFEE BREAK
16:30-17:30	TUTORIAL-4 Professor Fujio Kurokawa Nagasaki University, Japan, IEEE Fellow	16:20-16:40	ORAL PRESENTATION (4 PARALEL SESSION) 5 PAPERS*20 MINUTES 20 PAPERS	16:20-16:40	ORAL PRESENTATION (5 PARALEL SESSION) 5 PAPERS*20 MINUTES 25 PAPERS	16:20-16:40	CLOSING CEREMONY
		16:40-17:00		16:40-17:00			
		17:00-17:20		17:00-17:20			
		17:20-17:40		17:20-17:40			
		17:40-18:00		17:40-18:00			
		18:00-18:20	2 PARALEL SESSION, 2 PAPERS				
18:00-20:00	WELCOMING PARTY			19:00-21:30	GALA DINNER		

Date: 20 November 2016	
08:30–17:00	Registration
Date: 20 November 2016	
TUTORIALS	
HALL: GALLERY HOSPITALITY SUITE 18	
13:00–14:00	Prof. Stanimir Valtchev, " Non-traditional Methods to Obtain Energy from the Environment "
14:10–15:10	Dr. Khaled Ahmed, " Distributed Generation "
15:20-16:20	Prof. Carlos Ferreira Fernandes, " Photovoltaic Solar Panels "
16:30–17:30	Prof. Fujio Kurokawa, " Digital Power Converter for Renewable Energy System "
Date: 20 November 2016	
18:00-20:00	WELCOME RECEPTION

Date: 21 November 2016		HALL:
08:30-17:00	Registration	
Date: 21 November 2016 - AM		HALL: GALLERY SEMINAR SUITES
09:00-09:30	Opening Ceremony and Speeches	
KEYNOTE		HALL: GALLERY SEMINAR SUITES
09:30-10:30	Prof. Dan M. Ionel, "Plans for 100% Renewable Energy and Requirements for Technological Developments" Chair: Nagi Fahmi, Seref Sagiroglu	
10.30-11.00	COFFEE BREAK	
KEYNOTE		HALL: GALLERY SEMINAR SUITES
11:00-12:00	Prof. Rik De Doncker, "Intelligent Sub-stations for Medium-voltage DC Distribution Systems - Power electronics, a key enabling technology." Chair: Ilhami Colak, Fujio Kurukawa	
12:00-13:00	LUNCH BREAK	
12:20-14:20	Poster Session	
ORAL PRESENTATIONS		
Date: 21 November 2016 - PM		HALL: GALLERY SEMINAR SUITES - I
TRACK: Computational Methods for RESSs		SESSION CHAIR: Robert Cuzner, Alfonso Damiano
14:20-14:40	ID: 183 A Genetic Algorithm for the Definition of Nodal Load Time Evolutions in Microgrid Assessment Saman Korjani(Università di Cagliari), Mario Porru(Università di Cagliari), Alessandro Serpi(Università di Cagliari), Alfonso Damiano*(University di Cagliari),	
14:40-15:00	ID: 190 A Deep Convolutional Neural Network and a Random Forest Classifier for Solar Photovoltaic Array Detection in Aerial Imagery Jordan Malof*(Duke University), Kyle Bradbury(Duke University), Leslie Collins(Duke University), Richard Newell(Duke University),	
15:00-15:20	ID: 112 FPGA Implementation of the Automatic Multiscale Based Peak Detection for Real-time Signal Analysis on Renewable Energy Systems Alperen Mustafa Colak*(Nagasaki University), Yuichiro Shibata(Nagasaki University), Fujio Kurokawa(Nagasaki University),	
15:20-15:40	ID: 334 Partitional Clustering-Based Outlier Detection for Power Curve Optimization of Wind Turbines Mehmet Yesilbudak*(Nevsehir Haci Bektas Veli University),	
15:40-16:00	ID: 273 Single Ground Fault Location Algorithm in DC Microgrid Based on Wavelet Transform Ruijing Yang(University of Wisconsin-Milwaukee), Robert Cuzner*(University of Wisconsin-Milwaukee),	
16:00-16:20	COFFEE BREAK	
TRACK: Computational Methods for RESSs		SESSION CHAIR: Shailendra Shukla, Erdal Irmak
16:20-16:40	ID: 317 PI Controlled Solar Energy Supported Static Excitation System Desing And Simulation For Synchronous Generators Naki Guler*(Gazi University), Erdal Irmak(Gazi University), Mustafa Ersan(KONELSSIS),	
16:40-17:00	ID: 5 Heat Loss Analysis: An Approach Towards the Revival of Parabolic Dish Type Solar Cooker Prof. Shailendra Shukla*(CERD), Arun Kumar(CERD),	
17:00-17:20	ID: 121 Forecasting Variation of Solar Radiation and Movement of Cloud by Sky Image Data Takuo Koyasu(Aichi Institute of Technology), Kazuto YUKITA*(Aichi Institute of Technology), Masayuki MONOWA(Aichi Institute of Technology), Katsuhiro ICHIYANAGI(Aichi Institute of Technology), Masayuki YODA(Aichi Institute of Technology), Keiichi HIROSE(NTT Facilities),	
17:20-17:40	ID: 22 Designing of a fuzzy controller for grid connected photovoltaic system's converter and comparing with PI controller Kivanc Basaran*(Celal Bayar University), Numan Cetin(Ege University),	
17:40-18:00	ID: 350 Energy and Exergy Analyses of a Solar Assisted Combined Power and Cooling Cycle Hadi Ganjehsarabi*(Erzincan University), Mustafa Asker(Adnan Menderes University), Aslihan Kurnuc Seyhan(Erzincan University),	
Date: 21 November 2016 - PM		HALL: GALLERY SEMINAR SUITES - II
TRACK: Control Techniques for RESSs		SESSION CHAIR: Abdel Ghani Aissaoui, Mouhacine Benosman
14:20-14:40	ID: 289 Clustering Analysis of Multidimensional Wind Speed Data Using k-Means Approach Mehmet Yesilbudak*(Nevsehir Haci Bektas Veli University),	
14:40-15:00	ID: 13 Extremum Seeking-based Parameter Identification for State-of-Power Prediction of Lithium-ion Batteries Mouhacine Benosman*(MERL), Chun Wei(University of Nebraska-Lincoln),	
15:00-15:20	ID: 349 The Multi-Objective Optimization Model for a Sustainable Manufacturing System Design Reda Nujoom*(University of Portsmouth), Ahmed Mohammed(University of Portsmouth/School of Engineering), Qian Wang(University of Portsmouth), Nick Bennett(University of Portsmouth),	
15:20-15:40	ID: 139 Evaluation of State-Based Controlled STATCOM for DFIG-Based WECS During Voltage Sags Johnny Chhor*(Institute for Power Systems Technology and Power Mechatronics), Pavlos Tourou(Institute for Power Systems Technology and Power Mechatronics), Constantinos Sourkounis(Ruhr-University Bochum),	

15:40-16:00	ID: 316 Simulation and ZigBee Based Wireless Monitoring of the Amount of Consumed Energy at Smart Homes <i>Erdal Irmak*(Gazi University), Ali KOSE(Gazi University), Gökhan Göçmen(Gazi University),</i>
16:00-16:20	COFFEE BREAK

TRACK: Control Techniques for RESS		SESSION CHAIR: Fujio Kurokawa, Andrew Cross
16:20-16:40	ID: 191 Analysis and Design of a Tower Motion Estimator for Wind Turbines Wai Hou Lio*(University of Sheffield), Bryn Jones(University of Sheffield), Anthony Rossiter(University of Sheffield),	
16:40-17:00	ID: 202 Switched Capacitor Discrete Control of Voltage Dividing Class E Amplifier to Achieve Sub Nominal Operation Katsutoshi Hirayama*(Nagasaki University), Yudai Furukawa(Nagasaki University), Takuya Sirakawa(Nagasaki University), Tadashi Suetsugu(Fukuoka University), Hidenori Maruta(Nagasaki University), Fujio Kurokawa(Nagasaki University),	
17:00-17:20	ID: 205 A New Digital Current Control AC-DC Converter for Wind Turbine Kazuhiro Kajiwara(Nagasaki Institute of Applied Science), Satoshi Kuboyama*(Nagasaki University), Tsuyoshi Higuchi (Nagasaki University), Johann Kolar(ETH Zurich), Fujio Kurokawa(Nagasaki University),	
17:20-17:40	ID: 216 Stability Characteristics of Digital Peak Current Control DC-DC Converter under Input Voltage Fluctuation Kazuhiro Kajiwara*(Nagasaki Institute of Applied Science), Hidenori Maruta(Nagasaki University), Yuichiro Shibata (Nagasaki University), Fujio Kurokawa(Nagasaki University),	
17:40-18:00	ID: 239 Transient Response of Digital Peak Current Mode Boost Converter for DC Bus Voltage Compensation Yudai Furukawa*(Nagasaki University), Shintaro Nibu(Nagasaki University), Haruhi Eto(Nagasaki University), Fujio Kurokawa(Nagasaki University), ILHAMI COLAK(Nisantasi University),	
Date: 21 November 2016		- PM
		HALL: GALLERY SEMINAR SUITES - III
TRACK: Control Techniques for RESS		SESSION CHAIR: Akiko Takahashi, Abbas Fotouhi
14:20-14:40	ID: 51 Arrangement of Fibonacci Sequence Photovoltaic Modules for Power Generation Forest Akiko Takahashi*(Tokyo University Of Science),	
14:40-15:00	ID: 66 An Impedance Analyzer Application Using Cross-Correlation Method Taha Gücin*(University of Yalova), Levent Ovacik(Istanbul Technical University),	
15:00-15:20	ID: 233 Power Differential Method Based Islanding Detection in PV Systems Okan Ozgonenel*(Ondokuz Mayıs University),	
15:20-15:40	ID: 141 Vector Control of DFIG in Wind Power Applications E. Aydın, Abdullah Polat* , Lale Ergene(Istanbul Technical University),	
15:40-16:00	ID: 277 Influence of Battery Capacity on Performance of an Electric Vehicle Fleet Abbas Fotouhi*(Cranfield University), Daniel J. Auger(Cranfield University), Tom Cleaver(OXIS Energy Ltd), Neda Shateri(Cranfield University), Karsten Propp(Cranfield University), Stefano Longo(Cranfield University),	
16:00-16:20	COFFEE BREAK	
TRACK: Autonomous Dynamic Intelligent Systems		SESSION CHAIR: . M. Arif Wani
16:20-16:40	ID: 117 Development of a Low Cost Universal Sensors for Measurement of Current, Voltage and Temperature Abdoulkarim Bouabana*(Power Systems Technology and Power Mechatronics), Erol Sanal(Power Systems Technology and Power Mechatronics), Constantinos Sourkounis(Ruhr-University Bochum),	
16:40-17:00	ID: 162 Fault Ride Through Capability Enhancement of DFIG Using Practical and Cost-Effective Method Ehsan Rasouli*(Amirkabir University of Technology), Gholam Hossein Riahy(Amirkabir University of Technology), Ehsan Morad(Amirkabir University of Technology),	
17:00-17:20	ID: 95 Normal Power Generation Area of Wind Turbines for the Detection of Abnormal Performance Miguel Sanz Bobi*(Comillas Pontifical University), Mar Carmona Sanz(Comillas Pontifical University),	
17:20-17:40	ID: 17 Analysis, Design and Reel-Time Implementation of Shunt Active Power Filter for Power Quality Improvement Based on Predictive Direct Power Control Samir Moulahoum*(University of Media), Oualid Aissa(LREA), Badreddine Babes(university of setif), Nadir Kabache(LREA), ILHAMI COLAK(Nisantasi University),	
17:40-18:00	ID: 116 Design of a Direct-Drive Permanent Magnet Generator for a 50 kW Wind Turbine Aydın Başkaya*(TUBITAK/MAM Energy Institute), Ozan Keysan(Middle East Technical University),	
18:00-18:20	ID: 149 Dynamic Performance of Wind-Driven Self-Excited Reluctance Generator under Varying Wind Speed and Load Ayodeji Ogunjuyigbe(University of Ibadan), Temitope Ayodele*(University of Ibadan), Bukola Adetokun(University of Ibadan), Abdul-Ganiyu Jimoh(Tshwane University of Technology),	

Date: 21 November 2016 - PM		HALL: GALLERY HOSPITALITY SUITE 18
TRACK: Renewable Energy Visions		SESSION CHAIR: Fabio Viola
14:20-14:40	ID: 344 Sensitivity Analysis of a Bidirectional Wireless Charger for EV <i>Alicia Triviño(Universidad de Málaga), JOSE AGUADO(UNIVERSITY OF MALAGA), Michela Longo*(Politecnico di Milano), Federica Foadelli(Politecnico di Milano),</i>	
14:40-15:00	ID: 352 Day-Ahead Forecasting for Photovoltaic Power Using Artificial Neural Networks Ensembles <i>Mohammed Omar(Politecnico di Milano), Alberto Dolara(Politecnico di Milano), Giulia Magistrati(Politecnico di Milano), Marco Mussetta*(Politecnico di Milano), Emanuele Giovanni Ogliari(Politecnico di Milano), Fabio Viola(Università di Palermo),</i>	
15:00-15:20	ID: 362 Economic Evaluation of PV System for EV Charging Stations: Comparison Between Matching Maximum Orientation and Storage System Employment <i>Rosario Miceli*(University of Palermo), Fabio Viola(Università di Palermo), Massimo Caruso(University of Palermo), Antonino Oscar Di Tommaso(University of Palermo), Antonino Imburgia(University of Palermo), Michela Longo(Politecnico di Milano), Pietro Romano(University of Palermo), Giuseppe Schettino(University of Palermo), Giuseppe Salvo(University of Palermo), Ciro Spataro("University of Palermo),</i>	
15:20-15:40	ID: 364 CO2 Reduction Exploiting RES for EV Charging <i>Rosario Miceli*(University of Palermo), Morris Brenna(Politecnico di Milano), Michela Longo(Politecnico di Milano), Dario Zaninelli(Politecnico di Milano), Fabio Viola(Università di Palermo),</i>	
15:40-16:00	ID: 365 A Novel MPPT Algorithm for Photovoltaic Systems under Dynamic Partial Shading - Recurrent Scan and Track Method <i>Rosario Miceli(University of Palermo), Alberto Dolara*(Politecnico di Milano), Sonia Leva(Politecnico di Milano), Giulia Magistrati(Politecnico di Milano), Emanuele Giovanni Ogliari(Politecnico di Milano), Marco Mussetta(Politecnico di Milano), R Varun Arvind(Politecnico di Milano),</i>	
16:00-16:20	COFFEE BREAK	
TRACK Renewable Energy Modelling		SESSION CHAIR: Youcef Soufi, Jin Yang
16:20-16:40	ID: 14 Energy Management of Photovoltaic/Wind Pumping System with Battery Storage <i>Djamila REKIOUA*(University of Bejaia), Chafiaa Serir(Université de Bejaia), Seddik Bacha(G2elab INP Grenoble France),</i>	
16:40-17:00	ID: 18 Design of a Half-Bridge Bootstrap Circuit for Grid Inverter Application Controlled by PIC24FJ128GA010 <i>Mohannad Mnati*(Ghent University),</i>	
17:00-17:20	ID: 60 Small Scale DFIG Test Rig Facilities Implementing Vector Control Using Industrial Converters <i>NUR SARMA*(THE UNIVERSITY OF MANCHESTER), Sinisa Durovic(The University of Manchester),</i>	
17:20-17:40	ID: 69 Analytical Modeling Concept for Weather Phenomena as Renewable Energy Resources <i>Franz Christange*(Technical University of Munich), Thomas Hamacher(Technical University of Munich),</i>	
17:40-18:00	ID: 86 Enhancing Frequency Response of Wind Farms using Hybrid Energy Storage Systems <i>Stalin Munoz Vaca*(Newcastle University), Charalampos Patsios(Newcastle University), Phil Taylor(Newcastle University),</i>	
Date: 21 November 2016 - PM		HALL: GALLERY HOSPITALITY SUITE 17
TRACK 1		SESSION CHAIR:
14:20-14:40		
14:40-15:00		
15:00-15:20		
15:20-15:40		
15:40-16:00		
16:00-16:20	COFFEE BREAK	
TRACK 1		SESSION CHAIR:
16:20-16:40		
16:40-17:00		
17:00-17:20		
17:20-17:40		
17:40-18:00		

TRACK

SESSION CHAIR: Okan Ozgonenel, Samir Moulahoum

ID: 185 Identification of Suitable Nodes for The Placement Of Reactive Power Compensators

Isaiah ADEBAYO*(Tshwane University of Technology), Abdul-Ganiyu Jimoh(Tshwane University of Technology), Adedayo Yusuf(Tshwane University of Technology),

ID: 110 Development of Impact-Based Piezoelectric Road Energy Harvester for Practical Application

Chan Ho Yang*(Hanyang University), Min Sik Woo(Hanyang University), Yewon Song(Hanyang University), Jong Hyuk Eom(Hanyang University), Seong Kwang Hong(Hanyang University), Gyeong Ju Song(Hanyang University), Jeong Hun Kim(Hanyang University), Tae Hyun Sung(Hanyang University), Ji Young Choi(Korea Institute of Civil Engineering and Building Technology), Seung Ki Ryu(Korea Institute of Civil Engineering and Building Technology),

ID: 134 Designing a Road Energy Harvester With Multiple Piezoelectric Cantilever Beams and a Single Tip Mass

Yewon Song(Hanyang University), Chan Ho Yang(Hanyang University), Sung Joo Hwang(Hanyang University), Jeong Hun Kim(Hanyang University), Tae Hyun Sung*(Hanyang University),

ID: 46 High-Step-Up Flyback-Forward Asymmetrical DC-DC Converter for Photovoltaic Power System with Active Clamping Circuit

Zhengzhao He*(Aston University), Wenping Cao(Aston University), Zhengyu Lin(Aston University), Yihua Hu(Liverpool University),

ID: 71 Analysis of output power fluctuations of small scale PV and Wind Power systems

Alo Allik*(Estonian University of Life Sciences), Andres Annuk(Estonian University of Life Sciences),

ID: 237 Image Features for Pixel-wise Detection of Solar Photovoltaic Arrays in Aerial Imagery Using a Random Forest Classifier

Jordan Malof*(Duke University), Alexander Serrano(The Cooper Union), Hetian Wu(The Cooper Union), Sam Keene(The Cooper Union), Kyle Bradbury(Duke University), Leslie Collins(Duke University), Richard Newell(Duke University),

ID: 77 Comparison of Modular Multilevel and Neutral-Point-Clamped Converters for Medium-Voltage Grid-Connected Applications

Hafiz Abu Bakar Siddique*(RWTH Aachen University), Abishek Rajaraman Lakshminarasimhan(RWTH Aachen University), Charles I. Odeh(RWTH Aachen University), Rik W. De Doncker(RWTH Aachen University),

ID: 83 Reliability study of a photovoltaic system using Stochastic Petri Nets

ismahan MAHDI*(University of Boumerdes Algeria), Boucharia NADJI(UMBB),

ID: 73 An Evolutionary Computing Approach for Estimating Global Solar Radiation

Rami AL-HAJJ*(American University of the Middle East), Ali Assi(Lebanese International University), Farhan Batch(MEU University),

ID: 106 Efficient MPPT Control for Fast Irradiation Changes and Partial Shading Conditions on PV Systems

Balaji Veerasamy*(Jimma Institute of Technology), Amruth Telkar(Jimma Institute of Technology), Ganesan Ramu(Jimma Institute of Technology), Takaharu Takeshita(Nagoya Institute of Technology),

ID: 118 Single Diode Model Parameters Analysis of Photovoltaic Cell

Md Tofael Ahmed*(University of Evora),

ID: 152 Optimisation and Financial Viability of Landfill Gas to Electricity Projects in South Africa

SANJEETH SEWCHURRAN*(University of Kwazulu Natal), Innocent Davidson(Durban University of Technology),

ID: 153 Guiding Principles for Grid Code Compliance of Large Utility Scale Renewable Power Plant Intergration onto South Africa's Transmission/Distribution Networks

SANJEETH SEWCHURRAN*(University of Kwazulu Natal), Innocent Davidson(Durban University of Technology),

ID: 44 Development of Axial Flux PM Generator for Direct Driven Micro Wind Turbine

Tareq El-Hasan*(Zarqa University),

ID: 131 Matrix Converter Based Wind Generation System with Low Voltage Ride Through Capability

Catarina Lemos(Instituto Superior Tecnico), Sonia Pinto*(INESC-ID), José Silva(INESC-ID),

ID: 145 Control of a New Structure of Twin Wind Turbine

Ibrahim Guenoune(Ecole Centrale de Nantes / University of Tlemcen), Franck PLESTAN*(Ecole Centrale de Nantes), Ali Chermitti(University of Tlemcen),

ID: 240 Control of multi-Level Voltage Source Converters Integrating a Wind Turbine System into the Grid

ESTER HAMATWI*(UNIVERSITY OF KWAZULU-NATAL), Innocent Davidson(Durban University of Technology), Michael Gitau(University of Pretoria),

ID: 290 Power Quality Control in Grid-interactive Micro-power Systems

Ahsan Shahid*(University of Illinois at Chicago),

ID: 123 Static Voltage Stability Analysis of Eskom Eastern Grid

Oluwafemi Oni*(UNIVERSITY OF KWAZULU-NATAL), Innocent Davidson(Durban University of Technology), Nishant Parus(Eskom Holdings SOC Ltd),

ID: 135 New Measurement Technique for Modular Multilevel Converter with IGBT Open-Circuit Failure Detection and Tolerance Control for Three-Level Submodule

Ahmed Sallam(Alexandria University), Ragi Hamdy*(Alexandria University), Mohamed Zakaria(Alexandria University), Ahmed Hossam(Alexandria University),

ID: 45 Reactive Power Compensation in Wind Power Plant With Short Circuit in Power Plant Line via UPFC

shahin fouladi panah*(islamic azad university), Gadir Azizi Ghannad (islamic azad university), Touhid Fouladi Panah (Tejarat Consultant ENGS),

ID: 58 Improvement in the ATO Efficiency of the Magnetic Levitation Propulsion System Using a Linear Induction Motor

Seok Young Lee(konkuk university), Park Sang uk(konkuk university), Chan Yong Zun(konkuk university), Jae Hyuk Choi(konkuk University), Jae Won Lim(Korea institute of machinery&materials), Hyung Su Mok(konkuk university),*

Date: 22 November 2016		HALL:
08:30-17:00	Registration	
Date: 22 November 2016 - AM		
KEYNOTE		HALL: GALLERY SEMINAR SUITES
09:00-09:45	Prof. Adel Nasiri, "DC UPS and Load Leveling for Pulse Loads" Chairs: Rosario Miceli, Yousuke Nozaki	
09:45-10:30	Dr. Yousuke Nozaki, "Photovoltaic power systems deployment for half a century and our technical contribution in Asia" Chairs: Dan M. Ionel, Rik De Doncker	
10:30-11:00	COFFEE BREAK	
KEYNOTE		HALL: GALLERY SEMINAR SUITES
11:00-12:00	Prof. Rosario Miceli, "Fault tolerant inverter operation" Chairs: Adel Nasiri, H. Ibrahim Bulbul	
12:00-13:00	LUNCH BREAK	
12:20-14:20	Poster Session	
ORAL PRESENTATIONS		
Date: 22 November 2016 - PM		HALL: GALLERY SEMINAR SUITES - I
TRACK: Energy Transformation from Renewable Energy System (RES) to Grid		SESSION CHAIR: Tahir Yavuz, Hiroyuki Haga
14:20-14:40	ID: 23 Increasing Efficiency of an Existing Francis Turbine by Rehabilitation Process <i>Deniz Sarper Semerci*(Baskent University), Tahir Yavuz(Baskent University),</i>	
14:40-15:00	ID: 54 Fault Diagnosis of Photovoltaic Modules Using AC Impedance Spectroscopy <i>Suguru Osawa*(Tokyo University of Science), Takuma Nakano(Tokyo University of Science), Shunya Matsumoto(Tokyo University of Science), Noboru Katayama(Tokyo University of Science), Yusuke Saka(Fuji Furukawa Engineering & Construction Co.Ltd.), Hiroki Sato(Fuji Furukawa Engineering & Construction Co.Ltd.),</i>	
15:00-15:20	ID: 35 Placement of FACTS Devices for Congestion Management- A Review <i>madhavi gupta*(IFTM University),</i>	
15:20-15:40	ID: 37 Automated Test Chamber for Indoor Photovoltaics <i>Yannick Verbelen*(Vrije Universiteit Brussel),</i>	
15:40-16:00	ID: 39 A comparative study of voltage gain tolerance in conventional and three-level LLC converters against circuit variation <i>Hiroyuki Haga*(Shindengen Electric Manufacturing Co.), Hidenori Maruta(Nagasaki University), Fujio Kurokawa(Nagasaki University),</i>	
16:00-16:20	COFFEE BREAK	
TRACK: Energy Transformation from Renewable Energy System (RES) to Grid		SESSION CHAIR: William Hung , S. S. Dash
16:20-16:40	ID: 231 Optimal Location Identification Of FACTS Devices Through Genetic Algorithm And The Network Structural Characteristics Techniques <i>Isaiah ADEBAYO*(Tshwane University of Technology), M. Arun Bhaskhar(Tshwane University of Technology), Adedayo Yusuff(Tshwane University of Technology), Abdul-Ganiyu Jimoh(Tshwane University of Technology),</i>	
16:40-17:00	ID: 122 Power Management of Grid Connected Hybrid Microgrid with Dual Voltage Source Inverter <i>RAM YALLAMILLI*(INDIAN INSTITUTE OF TECHNOLOGY MADRAS),</i>	
17:00-17:20	ID: 230 Analysis and Experimental Investigation for Grid-Connected 10 kW Solar PV System in Distribution Networks <i>PADUCHURI CHANDRA BABU NAIDU*(MITS), Dr.S.S DASH(SRM UNIVERSITY), DR.RANJAN KUMAR BEHERA(IIT-PATNA), Dr.C SUBRAMANI(SRM UNIVERSITY), Ramazan Bayindir(Gazi University),</i>	
17:20-17:40	ID: 21 WindWEC: Combining Wind and Wave Energy, Inspired by Hywind and Wavestar <i>Madjid Karimirad*(MARINTEK),</i>	
17:40-18:00	ID: 276 Modeling and Simulation of a Static VAR Compensator based on FC-TCR <i>Ali KOSE(Gazi University), Erdal Irmak*(Gazi University),</i>	
Date: 22 November 2016 - PM		HALL: GALLERY SEMINAR SUITES - II
TRACK: Renewable (Green) Energy Systems and Sources (RESSs)		SESSION CHAIR: Marco Mussetta, Zhengyu Lin
14:20-14:40	ID: 347 A Novel MPPT Algorithm for Photovoltaic Systems under Dynamic Partial Shading - Recurrent Scan and Track Method <i>Alberto Dolara(Politecnico di Milano), Sonia Leva(Politecnico di Milano), Giulia Magistrati(Politecnico di Milano), Marco Mussetta*(Politecnico di Milano), Emanuele Giovanni Ogliairi(Politecnico di Milano), R Varun Arvind(Politecnico di Milano),</i>	
14:40-15:00	ID: 48 The Investigation of a Segment Multi-Chamber Oscillating Water Column in Physical Scale Model <i>Mohammad Shalby(University of Technology Sydney), Paul Walker(University of Technology Sydney), David Dorrell*(University of KwaZulu Natal),</i>	
15:00-15:20	ID: 52 Development of Magnetic Assist System in Flywheel Energy Storage System for Power Load-Leveling <i>Jun-ichi Itoh(Nagaoka University of Tec.), Takumi Masuda*(Nagaoka University of Technology), Daisuke Sato(Nagaoka University of Technology), Tsuyoshi Nagano(Nagaoka University of Technology), Takeo Suzuki(Nagaoka University of Technology), Noboru Yamada(Nagaoka University of Technology),</i>	

15:20-15:40	ID: 57 Suppression of Short-circuit Current in Halt Sequence to Stop Two-level Inverter connected to PMSM during Regeneration Mode <i>Tsuyoshi Nagano*(Nagaoka University of Technology), Jun-ichi Itoh(Nagaoka University of Tec.),</i>
15:40-16:00	ID: 62 Design of Swarm Intelligence Based Optimal Controller to Direct Matrix Converter Used In Renewable Energy System <i>Mehmet SENOL*(Istanbul Gelisim University), Haluk GOZDE(Gazi University), Cengiz Taplamacioglu(Gazi University), Murat Ari(Çankırı Karatekin University),</i>
16:00-16:20	COFFEE BREAK

TRACK: Wind Energy Conversion Systems...		SESSION CHAIR: AbdelGhani AISSAOUI, Brahim metidji
16:20-16:40	ID: 181 Power Flow Control in Grid Connected Wind Farm <i>Mohamed Benchagra*(University Hassan 1er),</i>	
16:40-17:00	ID: 244 Unity Power Factor Standalone Wind Battery Charger <i>Brahim metidji*(IGEE), Rebiha metidji(LTII),</i>	
17:00-17:20	ID: 33 Reliability optimization of wind farms considering constraints and regulations <i>Nacef TAZI*(University of Technology of Troyes),</i>	
17:20-17:40	ID: 26 Wind Energy Potential and Economic Analysis of WECS in Four Selected Locations in Algeria <i>omar charrouf*(kasdi merbah university), achour betka(university of Biskra), abdelmalik taleb-ahmed(university of valenciennes), amar golea(university of Biskra),</i>	
17:40-18:00		
Date: 22 November 2016 - PM		HALL: GALLERY SEMINAR SUITES - III
TRACK: Control Techniques for RESs		SESSION CHAIR: Mariacristina Roscia, Alfonso Damiano
14:20-14:40	ID: 182 CFD vs. XFOIL of Airfoil Analysis at Low Reynolds Numbers <i>ONUR GUNEL*(Yildirim Beyazit University), Tahir Yavuz(Baskent University), EMRE KOC(Baskent University),</i>	
14:40-15:00	ID: 148 Improving Power Generation Capability of The Surface Mounted Permanent Magnet Generator Using Series Resonant Converter <i>Muhammet Biberoglu*(Yalova University), Levent Ovacik(Istanbul Technical University),</i>	
15:00-15:20	ID: 313 The Design, Control and Dynamic Performance of an Interior Permanent Magnet Synchronous Generator for Wind Power System <i>Olusegun Solomon*(Olriz Center),</i>	
15:20-15:40	ID: 140 Expanding ZVS Range for Dual Active Bridge DC-DC Converter Using Three-level Neutral-point-clamped Inverter Topology <i>Yoshiki Ikai*(Tokyo University of Science), Nobukazu Hoshi(Tokyo University of Science),</i>	
15:40-16:00		
16:00-16:20	COFFEE BREAK	
TRACK: Smart Grid Systems and Security		SESSION CHAIR: Seref Sagiroglu, Huiqing Wen
16:20-16:40	ID: 107 Surface Polarization Effect and Recovery Process of Crystalline-Si Photovoltaic Modules <i>Simone Casula(Sardegna Ricerche), Malgorzata Gawronska(Sardegna Ricerche), Carla Sanna(Sardegna Ricerche), Alfonso Damiano*(University di Cagliari),</i>	
16:40-17:00	ID: 29 An Investigation into the Technical Impacts of Microgeneration on UK-Type LV Distribution Networks <i>Donald Azuatalam*(University of Sydney), Obinna Unigwe(University of Edinburgh), Pairach Kitworawut(PEA Thailand),</i>	
17:00-17:20	ID: 157 A Comparison between Silicon Carbide Based Current Source Rectifier and Voltage Source Rectifier for Applications in Community DC Microgrid <i>qianqian jiao*(UW-Milwaukee), Rasoul Hosseini(UW-Milwaukee), Robert Cuzner(UW-Milwaukee),</i>	
17:20-17:40	ID: 306 Big Data Issues in Smart Grid Systems <i>Seref SAGIROGLU*(Gazi University), Ramazan Terzi(Gazi University), yavuz canbay(gazi university), ILHAMI COLAK(Nisantasi University),</i>	
17:40-18:00	ID: 42 Sag-Tension Calculation Program for Power Substations <i>Jorge Quintana*(Electrical Research Institute), Victor Garza(Electrical Research Institute),</i>	
Date: 22 November 2016 - PM		HALL: GALLERY HOSPITALITY SUITE 18
TRACK: Renewable Energy Research and Applications for Industries		SESSION CHAIR: Khaled H. Ahmed
14:20-14:40	ID: 125 A Simulated Analysis of Zigzag-type DMFC Characteristics upon Varying the Electrode Form and Size <i>Hiroaki Nagahama*(Tokyo University of Science),</i>	
14:40-15:00	ID: 198 Evaluation of different maximum power point tracking techniques based on practical meteorological data <i>Xingshuo Li(XJTLU), Huiqing Wen*(XJTLU), Yihua Hu(Liverpool University),</i>	
15:00-15:20	ID: 195 A Reliability Evaluation Method for Distribution Networks Considering Passive Islanding Detection Failure <i>YingHui NIE*(Southeast University), Wei Gu(Southeast University), JunPeng Zhu(Southeast university),</i>	
15:20-15:40	ID: 256 Development of Composites Materials Based on Porous Microfibrous Carbon and Zinc Oxide for Energy Storage Applications <i>Tarik Bordjiba*(Université 8 mai 1945), Bilel Bouguerne(Université 8 mai 1945), Ourida Mahmoudi (Université 8 mai 1945), Youcef Guetteche(Université 8 mai 1945), Ahcene Lemzadmi(Université 8 mai 1945),</i>	
15:40-16:00	ID: 284 Off Grid PV System For Hydrogen Production Using Methanol Electrolysis With an Optimal management strategy <i>Hammou TEBIBEL*(Centre de Développement des Energies Renouvelables),</i>	
16:00-16:20	COFFEE BREAK	

TRACK; HVDC Transmission Systems...		SESSION CHAIR: Khaled H. Ahmed, Milijana Odavic
16:20-16:40	ID: 36 Design and Loss Analysis of a Medium-Voltage DC-DC Converter Intended for Offshore Wind Farms Takushi Jimichi*(Mitsubishi Electric Corporation), Murat Kaymak(RWTH Aachen University), Rik W. De Doncker(RWTH Aachen University),	
16:40-17:00	ID: 143 Harmonic Distortion of LCC-HVDC and VSC-HVDC Link in Eskom's Cahora Bassa HVDC Scheme Oluwafemi Oni*(UNIVERSITY OF KWAZULU-NATAL), Innocent Davidson(Durban University of Technology),	
17:00-17:20	ID: 169 Grid Support Functionalities based on Modular Multilevel Converters with Synchronous Power Control Cristian Verdugo*(Universitat Politècnica de Catalunya), Jose Ignacio Candela(Universitat Politècnica de Catalunya), Pedro Rodriguez(Abengoa Research),	
17:20-17:40	ID: 235 Controlled Transition Bridge Multilevel Converter Grain Adam*(University of Strathclyde),	
17:40-18:00	ID: 242 Fault Tolerant Multi-kW DC Transformer for Wind Farms Khaled Ahmed*(University of Aberdeen), Grain Adam(University of Strathclyde),	
Date: 22 November 2016 - PM		HALL: GALLERY HOSPITALITY SUITE 17
TRACK : Renewable (Green) Energy Systems and Sources (RESSs)		SESSION CHAIR: Grain Adam, Parnjit Damrongkulkamjorn
14:20-14:40	ID: 126 Design of Multiple Airfoil HAWT Blade using MATLAB Programming Farhan Javed*(DTU), Salman Javed(DTU), Taha Bilal(DTU), Vikas Rastogi(DTU),	
14:40-15:00	ID: 129 Optimal Sizing for Stand Alone Power Generating System with Wind-PV-Hydro Storage by Mixed-Integer Linear Programming Surachai Waiwong(Kasetsart University), Parnjit Damrongkulkamjorn*(Kasetsart University),	
15:00-15:20	ID: 136 Waste tea derived activated carbon/polyaniline composites as supercapacitor electrodes Isil Gurten Inal*(Ankara University), Yavuz Gokce(Ankara University), Zeki Aktas(Ankara University),	
15:20-15:40	ID: 161 A Distributed Controller for DC Microgrids Stability Enhancement Marzieh Karami*(University of Wisconsin-Milwaukee), Robert Cuzner(University of Wisconsin-Milwaukee),	
15:40-16:00		
16:00-16:20	COFFEE BREAK	
TRACK: Renewable (Green) Energy Systems and Sources (RESSs)		SESSION CHAIR: Erdal Irmak, Orhan Kaplan
16:20-16:40	ID: 346 A Review of Data Mining and Solar Power Prediction Mehmet Yesilbudak*(Nevsehir Haci Bektas Veli University), Medine Colak(Gazi University), Ramazan Bayindir(Gazi University),	
16:40-17:00	ID: 332 Implementation of Hybrid Energy Storage Systems to Compensate Microgrid Instability in the Presence of Constant Power Loads Ramazan Bayindir(Gazi University), Eklas Hossain*(Oregon Tech), Ron Perez(2University of Wisconsin-Milwaukee),	
17:00-17:20	ID: 275 The Analysis of Wind Speed Potential and Energy Density in Ankara Orhan KAPLAN(Gazi University), Murat Temiz*(Gazi University Faculty of Technology Department of Electrical & Electronic Engineering),	
17:20-17:40	ID: 80 Stability Analysis of an Offshore Wind Farm Connected to Turkish Electricity Transmission System Şevki Demirbas*(Gazi University), Ramazan Bayindir(Gazi University), ahmet ova(Turkish ElectricityTransmission Company), Umut Cetinkaya(Turkish ElectricityTransmission Company), Merden Yesil(Turkish ElectricityTransmission Company),	
17:40-18:00	ID: 321 DESIGN AND APPLICATION OF A NOVEL SINGLE INPUT – MULTI OUTPUT DC/DC CONVERTER Naki Guler(Gazi University), Erdal Irmak*(Gazi University)	

ID: 61 Performance Improvement of Direct Torque Control for Doubly Fed Induction Generator with 12 Sector Methodology

Alaa AlQuteimat*(Technical University of Berlin), Uwe Schaefer(Technical University of Berlin), alessandro roccaforte(Politecnico di Torino),

ID: 272 Application of Vanadium Redox Flow Battery to Grid Connected Microgrid Energy Management

Jongwoo Choi*(ETRI), Wan-Ki Park(Electronics and Telecommunications Research Institute), Ilwoo Lee(Electronics and Telecommunications Research Institute),

ID: 366 Speed Control of Tubular Linear Induction Motors for Industrial Automated Applications

Rosario Miceli*(University of Palermo), Giovanni Agnello(University of Palermo), Massimo Caruso(University of Palermo), Vincenzo Di Dio(University of Palermo), Claudio Nevoloso(University of Palermo), Ciro Spataro("University of Palermo),

ID: 175 Fast Convergence and Linear Modeling of Adaptive Cascaded Delayed Signal Cancellation -PLL

Yingpin Wang*(South China University of Technology), Yunxiang Xie(South China University of Technology), Zhiwu Zeng(South China University of Technology), Xiaoyu Zhang(South China University of Technology), Lanfang Li(Electric Power Research Institute Guangdong power grid co.), Xiaogang Xu(Electric Power Research Institute Guangdong power grid co.),

ID: 177 Online Evaluation Tool for Potential Application and Recommendation of Electric Vehicles

Ourania Kontopoulou*(Ruhr-University Bochum), Philip Dost(Ruhr-University Bochum), Philipp Spichartz(Ruhr-University Bochum), Christoph Degner(Ruhr-University Bochum), Constantinos Sourkounis(Ruhr-University Bochum),

ID: 91 Voltage Stability Index - A Review

madhavi gupta*(IFTM University),

ID: 100 Simple PWM strategy of a Matrix Converter for Reducing Output Voltage Harmonics

Kazuki Nohara*(Nagoya Institute of Technology), Takaharu Takeshita(Nagoya Institute of Technology),

ID: 199 Modeling and Analysis of Coordinated Control Strategies in AC Microgrid

Huiqing Wen*(XJTLU), Huan Yu(XJTLU), Yihua Hu(Liverpool University),

ID: 201 Low-Voltage Distribution Network Reconfiguration Considering High Penetration of Electric Vehicles - A UK Case Study

Zhi Qiao(Aston University), Jin Yang*(Aston University),

ID: 295 Analyzing the Influences of High Frequency Transformers Utilized in Parallel Resonant Converters

Muhammet Biberoglu*(Yalova University), Taha Gücin(University of Yalova), Bekir FINCAN(Istanbul Technical University),

ID: 318 Review of Electric Motors for Grid Connected Integrated Battery Chargers in Electric Vehicle Applications

Harun TURKER*(Haute École d'Ingénierie et d'Architecture de Fribourg / TH Smart Grid Expertise & Consulting),

ID: 319 Design Optimization of an Interior Permanent Magnet Synchronous Machine (IPMSM) for Electric Vehicle Application

Harun TURKER*(Haute École d'Ingénierie et d'Architecture de Fribourg / TH Smart Grid Expertise & Consulting),

ID: 283 Performance of a V-trough photovoltaic system

Wisam Al-Shohani*(University of Birmingham), Raya AL-Dadah (University of Birmingham), Saad Mahmoud (University of Birmingham), Abdulmageed Algareu (University of Birmingham),

ID: 160 Single-phase Power Conditioning System with Slew-Rate Controlled Synchronizer for Renewable Energy System in Microgrid

Sewan Heo*(Electronics and Telecommunications Research Institute), Wan-Ki Park(Electronics and Telecommunications Research Institute), Ilwoo Lee(Electronics and Telecommunications Research Institute),

ID: 351 Modeling of a Multi-Megawatt Grid Connected PV System with Integrated Batteries

Dan Ionel*(University of Kentucky), Vandana Rallabandi(University of Kentucky), Oluwaseun Akeyo(University of Kentucky),

ID: 367 Experimental Characterization of a Wind Generator Prototype for Sustainable Small Wind Farms

Rosario Miceli*(University of Palermo), Massimo Caruso(University of Palermo), Antonino Oscar Di Tommaso(University of Palermo), Giuseppe Ricco Galluzzo(University of Palermo), Ciro Spataro("University of Palermo), Fabio Genduso(University of Palermo), Fabio Viola(Università di Palermo),

ID: 194 Lead-acid battery behavior study and modelling based on the Kinetic Battery Model Approach

Abdou Tankari Mahamadou*(University of Paris Est Creteil), Nouhou Bako Zeinabou(University of Paris Est Creteil), Lefebvre Gilles(University of Paris Est Creteil), Amadou S.H. Maiga(EITER Laboratory),

ID: 173 Managed Hybrid Power Supply System for Telecom Equipment

Dipanka Sarmah*(Centre for Development of Telematics), Amit Karna(Centre for Development of Telematics), Sridharan B(Centre for Development of Telematics),

ID: 252 Optimal Load Balancing Strategy for Hybrid Energy Management System in DC Microgrid with PV, Fuel Cell and Battery Storage

Sneha Mane*(VJTI),

ID: 109 PCA analysis of distributed temperature sensing data from an asphalt field

J. Birgitta Martinkauppi*(University of Vaasa), Anne Makiranta(University of Vaasa), Erkki Hiltunen(University of Vaasa),

ID: 363 PV Systems in the Vertical Walls: a Comparison of Innovative Structures

Rosario Miceli(University of Palermo), Gianluca Acciari(University of Palermo), Alessandro Busacca(University of Palermo), Antonino Imburgia(University of Palermo), Antonino Madonia(University of Palermo), Eleonora Riva Sanseverino(University of Palermo), Pietro Romano(University of Palermo), Giuseppe Schettino(University of Palermo), Ciro Spataro("University of Palermo), Fabio Viola(Università di Palermo), Ganesh Sauba(DNVGL), Saverio Guarino(University of Palermo), Antonino Parisi(University of Palermo),*

ID: 163 A non-intrusive magnetic energy scavenger for renewable power generation state monitoring

Wei Jiang(Yangzhou University), Jingying LU(Yangzhou University), Fulong Li(Aston University), Seiji Hashimoto(Yangzhou University), Zhengyu Lin(Aston University),*

ID: 178 LCL-Filter design for a battery charger based on buck converter (DCDC converter)

Erol Sanal(Power Systems Technology and Power Mechatronics), Philip Dost(Ruhr-University Bochum), Constantinos Sourkounis(Ruhr-University Bochum),*

ID: 338 Application of Regression Models on Hydropower Plants

Richard Kyung(CRG),*

ID: 56 Available Transfer Capability Calculation Using PTDF and Implementation of Optimal Power Flow in Power Markets

Arun Bhaskar Mayilvaganan(Tshwane University of Technology), Jimoh Adisa A(Tshwane University of Technology),*

ID: 269 Optimal Tracking, Modeling and Control of Aerogenerator Based on PMSG Driven by Wind Turbine

SAAD LADIDE(universit  caddi ayyad), Hicham HIHI(universit  CADI AYYAD),*

ID: 180 Model for Smart Appliances toward Smart Grid into Smart City

Mariacristina Roscia("University of Bergamo),*

ID: 372 Sliding Mode torque control of an induction motor for automotive application with sliding Mode flux observer

Rosario Miceli(University of Palermo), Salvatore Alagna(University of Palermo), Giovanni Cipriani(University of Palermo), Mattia Corpora(University of Palermo), Vincenzo Di Dio(University of Palermo)*

ID: 368 Lead Acetate Based Hybrid Perovskite through Hot Casting for Planar Heterojunction Solar Cells

WONGYU CHOI(donkook university),*

Date: 23 November 2016		HALL:
08:30-17:00	Registration	
ORAL PRESENTATIONS		
Date: 23 November 2016 - AM		HALL: GALLERY SEMINAR SUITES - I
TRACK: Renewable (Green) Energy Systems and Sources (RESSs)		SESSION CHAIR: Lisa Bosman, Mangal Dhend
09:00-09:20	ID: 164 Difficulties and Recommendations for More Accurately Predicting the Performance of Solar Energy Systems during the Snow Season <i>Lisa Bosman*(College of Menominee Nation), Seth Darling(Argonne National Laboratory),</i>	
09:20-09:40	ID: 192 Hybrid Renewable Energy System based on Intelligent Optimization Techniques <i>Katheryn Donado Mercado(Universidad del Norte), Christian G. Quintero M.*(Universidad del Norte),</i>	
09:40-10:00	ID: 184 Research of Several Reference Current Extracting Methods in Time Domain <i>Lanfang Li(Electric Power Research Institute Guangdong power grid co.), Yingpin Wang*(South China University of Technology), Xiaogang Xu(Electric Power Research Institute Guangdong power grid co.), Yunxiang Xie(South China University of Technology), Zhiwu Zeng(South China University of Technology), Xiaoyu Zhang(South China University of Technology),</i>	
10:00-10:20	ID: 263 Fault Diagnosis Methodology in Smart Grid with Distributed Energy Generation <i>Mangal Dhend*(AISSMS College of Engg), Rajan Chile(SGGs College of Engineering and technology),</i>	
10:20-10:40	ID: 336 Thermodynamic Analysis of Alane and Borane Clusters for Hydrogen Storage <i>Richard Kyung*(CRG),</i>	
10:40-11:00	COFFEE BREAK	
TRACK: Novel Energy Conversion Studies for RESSs		SESSION CHAIR: Takaharu Takeshita, Malcolm Booth
11:00-11:20	ID: 203 Solution to Network Usage Allocation Problem in Power Networks <i>Akintunde Alayande*(Tshwane University of Technology), Abdul-Ganiyu Jimoh(Tshwane University of Technology), Adedayo Yusuff(Tshwane University of Technology),</i>	
11:20-11:40	ID: 213 MATLAB Simulink modeling of Photovoltaic Cells for understanding shadow effect <i>Masud Rana Rashel*(University Of Evora),</i>	
11:40-12:00	ID: 238 A BLDC Motor Drive with Four Switch Three Phase Inverter <i>Şafak EKMEŃ*(Istanbul Technical University), Bekir FINCAN(Istanbul Technical University), MURAT MERYEMZ(Istanbul Technical University),</i>	
12:00-12:20	ID: 245 A New Approach of Optimum Energy Scheduling of Emergency Generators Using Linear Programming in a Large Hospital <i>Yuji Mizuno*(Nagasaki Institute of Applied Science), Nobumasa Matusi(Nagasaki Institute of Applied Science), Yoshito Tanaka(Nagasaki Institute of Applied Science), Fujio Kurokawa(Nagasaki University),</i>	
12:40-14:00	LUNCH BREAK	
12:20-14:20	Poster Session	
Date: 23 November 2016 - PM		HALL: GALLERY SEMINAR SUITES - I
TRACK: Novel Energy Conversion Studies for RESSs		SESSION CHAIR: Zhengyu Lin, Harry Van der Weijde
14:20-14:40	ID: 170 A Common-Mode Leakage Current Mitigation for PV- Grid Connected Three-Phase Three-Level Transformerless T-type- NPC-MLI <i>bharatiraja C*(SRM University - kattangulathur Campus), Munda Lange(Tshwane University of Technology), RAMAZAN BAYINDIR(GAZ UNVERSITY), Mohd Tariq(NTU Singapore),</i>	
14:40-15:00	ID: 197 Unified Harmonics Based Method to Reduce Reactive Power of the Dual Active Bridge Converter <i>Haochen Shi(XJTLU), Huiqing Wen*(XJTLU), Jie Chen(XJTLU), Yihua Hu(Liverpool Univeristy),</i>	
15:00-15:20	ID: 208 A Modified MPPT Algorithm with Integrated Active Power Control for PV-Battery Systems <i>Fulong Li(Aston University), Muhannad Alshareef(Aston University), Zhengyu Lin*(Aston University), Wei Jiang(Yangzhou University),</i>	
15:20-15:40	ID: 278 Automatic voltage and reactive power control in distribution systems: dynamic coupling analysis <i>Riccardo Campaner(University of Trieste), Massimiliano Chiandone*(University of Trieste), Federico Milano(Electricity Research Centre (ERC) UCD School of Electrical), Giorgio Sulligoi(University of Trieste),</i>	
15:40-16:00	ID: 20 Research and Development of High-Efficiency and High-Performance Electric Rocket Engines for Future Space Missions at Osaka Institute of Technology <i>Hirokazu Tahara*(Osaka Institute of Technology),</i>	
16:00-16:20	COFFEE BREAK	
Date: 23 November 2016 - AM		HALL: GALLERY SEMINAR SUITES - II
TRACK: Control Techniques for RESSs		SESSION CHAIR: Youcef Soufi, Quan Li
09:00-09:20	ID: 259 A New Method for Tracking the Global Maximum Power Point for Grid-Connected PV System under Partially Shaded Conditions <i>Murat ÜNLÜ*(Kocaeli University), Sabri ÇAMUR(Kocaeli University), Ersoy BEŞER(Kocaeli University), Birol ARİFOĞLU(Kocaeli University),</i>	
09:20-09:40	ID: 286 Effectively Paralleling GaN FETs to achieve Ultra-high Efficiency in an Isolated DC-DC Converter <i>Rakesh Ramachandran*(University of Southern Denmark), Morten Nymand(University of Southern Denmark),</i>	

10:00-10:20	ID: 218 Current Harmonics Mitigation using Modular Multilevel Converter-based Shunt Active Power Filter <i>Amr Madi(Arab Academy for Science), Mostafa Hamad*(Arab Academy for Science), Khaled Ahmed(University of Aberdeen),</i>
10:20-10:40	ID: 274 Multilevel converter system for photovoltaic panels <i>Luciano Calaça*(University of Madeira),</i>
10:40-11:00	COFFEE BREAK
TRACK: Energy Savings for Vehicular Technology, Power SESSION CHAIR: Yoshitaka NAKANISHI, Zhengyu Lin	
11:00-11:20	ID: 320 Parked Electric Vehicle's Cabin Temperature Management Using Photovoltaic Powered Ventilation <i>Mohan Kolhe*(University of Agder (Norway)),</i>
11:20-11:40	ID: 294 Characteristics evaluation of various types of PV modules in Japan and U.S. <i>Kazuhiko Oda(NTT FACILITIES), Keiichiro Hakuta*(NTT FACILITIES), Yosuke Nozaki(NTT FACILITIES), Yuzuru Ueda(Tokyo University of Science),</i>
11:40-12:00	ID: 333 Implementation of Unit Commitment Algorithm: A Comprehensive Droop Control Technique to Retain Microgrid Stability <i>Halil bulbul*(Gazi University), Nazmus Sakib(Khulna University of Engineering & Technology), Jakir Hossain(Khulna University of Engineering), Ekhas Hossain(Oregon Tech), RAMAZAN BAYINDIR(GAZ UNIVERSITY),</i>
12:00-12:20	ID: 24 Bio-inspired Shaft Seal in Coolant Pump for Electric Vehicles <i>Yoshitaka NAKANISHI*(Unknown), Takuro Honda(Kumamoto university), Yuta NAKASHIMA(Kumamoto University), Keisaku NAKANO(Panasonic Corporation), Kenji KONDO(Panasonic Corporation), Hidehiko HIGAKI(Kyushu Sangyo University),</i>
12:40-14:00	LUNCH BREAK
12:20-14:20	Poster Session
Date: 23 November 2016 - PM HALL: GALLERY SEMINAR SUITES - III	
TRACK: Future Challenges and Directions for RESSs SESSION CHAIR: Tadashi Suetsugu, Markus Mueller	
14:20-14:40	ID: 343 Hedging Quantity Risks of Power Plants with Standard Power Options <i>haitao xiang*(Tsinghua University), zhe zhou(Tsinghua University),</i>
14:40-15:00	ID: 19 Electrochemical synthesis and characterization of inexpensive Ni-Cu and Ni-CeO₂-Cu as Fuel Cell Electrode to Produce Clean Renewable Energy from Ethanol <i>Sujit Guchhait*(Jadavpur University), Subir Paul(Jadavpur University),</i>
15:00-15:20	ID: 38 Utilization of waste cooking oil as an alternative fuel for Turkey <i>Ridvan Arslan*(Uludag University), Yahya Ulusoy(Uludag University),</i>
15:20-15:40	ID: 176 Application of Multi-Port Solid State Transformers for Microgrid-Based Distribution Systems <i>Adel Nasiri*(University of Wisconsin Milwaukee), Mohammad Rashidi(UWMilwaukee-n), Robert Cuzner(UW-Milwaukee),</i>
15:40-16:00	ID: 254 Basic Characteristics of Active Clamp Resonant SEPIC Circuit <i>Yudai Furukawa(Nagasaki University), Shunsuke Tsuruoka*(Nagasaki University), SATOSHI IKEDA(Panasonic), Fujio Kurokawa(Nagasaki University),</i>
16:00-16:20	ID: 193 Reliability Analysis of Wave Energy Converters <i>Markus Mueller*(University of Edinburgh),</i>
16:00-16:20	COFFEE BREAK
Date: 23 November 2016 - AM HALL: GALLERY HOSPITALITY SUITE 18	
TRACK: Control Techniques for RESS SESSION CHAIR: Arif Wani, Daniel Foito	
09:00-09:20	ID: 285 Improving Stability of Switching Power Supply with Digital Peak Current Mode Control <i>Yudai Furukawa(Nagasaki University), Shintaro Nibu*(Nagasaki University), Fujio Kurokawa(Nagasaki University), ILHAMI COLAK(Nisantasi University),</i>
09:20-09:40	ID: 348 Control of A Small Wind Turbine System Application <i>ILHAMI COLAK*(Nisantasi University), Abdelkader Harrouz(University of Draïa), Korhan KAYISLI(Nisantasi),</i>
09:40-10:00	ID: 361 Experimental Analisis with FPGA Controller-based of MC PWM Techniques for Three-phase Five Level Cascaded H-bridge for PV Applications <i>Rosario Miceli*(University of Palermo), Salvatore Benanti(University of Palermo), Concettina Buccella(University of L'Aquila), Massimo Caruso(University of Palermo), Vincenzo Castiglia(University of Palermo), Carlo Cecati(University of L'Aquila), Antonino Oscar Di Tommaso(University of Palermo), Pietro Romano(University of Palermo), Giuseppe Schettino(University of Palermo), Fabio Viola(Università di Palermo),</i>
10:00-10:20	ID: 325 Cluster Based Approach For Mining Patterns To Predict Wind Speed <i>Arif Wani*(University of Kashmir),</i>
10:20-10:40	ID: 63 Local and Centralized control strategy for Capacitor Voltage Balancing of Modular Multilevel Converter <i>Cristian Verdugo*(Universitat Politècnica de Catalunya), Jose Ignacio Candela(Universitat Politècnica de Catalunya), Pedro Rodriguez(Abengoa Research),</i>
10:40-11:00	COFFEE BREAK
TRACK: Renewable (Green) Energy Systems and Sources SESSION CHAIR: Seref Sagiroglu, Rabin Dhakal	
11:00-11:20	ID: 353 MATLAB/GUI Based Wind Turbine Generator Types on Smart Grid Systems <i>Melike Ayaz*(Gazi University), Ilhami Colak (Nisantasi University), Ramazan Bayindir(Gazi University)</i>

11:20-11:40	ID: 156 Meeting Frequency Response Requirements with Uncertain System Inertia - a UK perspective <i>K Forkasiewicz* (National Grid), M Coldwel (National Grid), A Cross (Aston University), D Strickland (Aston University)</i>
11:40-12:00	ID: 330 Determining the Most Appropriate Spinning Reserve Depending on Demand <i>Mehmet Rida TUR* (MARDİN ARTUKLU ÜNİVERSİTESİ), Ali Erduman (Hakkari University), Abdulfetah Shobole (YILDIZ TEKNİK UNIVERSİTESİ), Mohammed Wadi (YILDIZ TEKNİK UNIVERSİTESİ),</i>
12:00-12:20	ID: 55 High Frequency Resonant SEPIC Converter with Small Turn-On Current Noises <i>SATOSHI IKEDA* (Panasonic), Yudai Furukawa (Nagasaki University), Shunsuke Tsuruoka (Nagasaki University), Fujio Kurokawa (Nagasaki University),</i>
12:40-14:00	LUNCH BREAK
12:20-14:20	Poster Session
Date: 23 November 2016 - PM HALL: GALLERY HOSPITALITY SUITE 18	
TRACK: Control Techniques for RESS SESSION CHAIR: William Hung, Haruhi Eto	
14:20-14:40	ID: 64 Friction welding of lightweight motor shafts for electric vehicles <i>Tetsuya Akiyama (Akiyama Manufacturing Co.), Takuro Honda* (Kumamoto University), Yoshitaka NAKANISHI (Kumamoto University),</i>
14:40-15:00	ID: 78 Distribution Network Reconfiguration in Smart Grid System Using Modified Particle Swarm Optimization <i>Inji Atteya* (Aston University), Nagi Fahmi (Aston University), Dani Strickland (Aston University), Hamdy Ashour (Arab Academy for Science and Technology),</i>
15:00-15:20	ID: 96 Conducted Noise Reduction on AC/DC Converter using SiC-MOSFET <i>Hidetoshi Tanaka* (Nagoya Institute of Technology), Kazuma Suzuki (Nagoya Institute of Technology), Wataru Kitagawa (Nagoya Institute of Technology), Takaharu Takeshita (Nagoya Institute of Technology),</i>
15:20-15:40	ID: 101 Electric Power Leveling of the Microgrid System with PV Power Generation Estimation and Power Demand Estimation <i>Hiroshi Awata* (Tokyo University of Science),</i>
15:40-16:00	ID: 127 Comparison of Converter Arrangement of Series and Shunt Converters in UPFC for Distribution System Control <i>Masamichi Kano* (Nagoya Institute of Technology), Takuya Maekawa (Nagoya Institute of Technology), Takaharu Takeshita (Nagoya Institute of Technology), Yasuyuki Kunii (Chubu Electric Power Co.),</i>
16:00-16:20	COFFEE BREAK
Date: 23 November 2016 - AM HALL: GALLERY HOSPITALITY SUITE 17	
TRACK: Energy Savings for Vehicular Technology, Power SESSION CHAIR: Huiqing Wen, J. Birgitta Martinkauppi	
09:00-09:20	ID: 8 An Economic Analysis of a Geothermal Drilling Operation <i>İbrahim Ermiş* (General Directorate of Mineral Research and Exploration),</i>
09:20-09:40	ID: 10 Alternative Renewable Energy Producing Systems by Utilizing Piezoelectric Transducers <i>Ali Ekber Ozdemir (Ordu University), Sibel Akkaya Oy* (Ordu University),</i>
09:40-10:00	ID: 11 Usage of Piezoelectric Material and Generating Electricity <i>Sibel Akkaya Oy* (Ordu University), Ali Ekber Ozdemir (Ordu University),</i>
10:00-10:20	ID: 53 Comparison of Qblade and CFD Results for Small-Scaled Horizontal Axis Wind Turbine Analysis <i>EMRE KOC* (Baskent University), ONUR GUNEL (Yildirim Beyazit University), Tahir Yavuz (Baskent University),</i>
10:20-10:40	ID: 76 Simulated Thermal Response Test for Ground Heat Storage <i>Hafiz Haq (University of Vaasa), J. Birgitta Martinkauppi* (University of Vaasa), Erkki Hiltunen (University of Vaasa), Timo Sivula (University of Vaasa),</i>
10:40-11:00	COFFEE BREAK
TRACK: Control Techniques for RESS SESSION CHAIR: Miguel A. Sanz Bobi, Harun TURKER	
11:00-11:20	ID: 82 Averaged Model of Modular Multilevel Converter in Rotating DQ frame <i>ashok nampally* (University of Aberdeen), Yashwant Sinha (Robert Gordon University),</i>
11:20-11:40	ID: 207 Modular Multilevel Converter Modulation Using Fundamental Switching Selective Harmonic Elimination Method <i>ashok nampally* (University of Aberdeen), Yashwant Sinha (Robert Gordon University),</i>
11:40-12:00	ID: 282 A Signal Reforming Algorithm Based Three-Phase PLL Under Unbalanced Grid Conditions <i>Fahmid Sadeque (Bangladesh University of Engineering and Technology (BUET)), Md. Shamim Reza* (Bangladesh University of Engineering and Technology (BUET)), Md. Maruf Hossain (University of Wisconsin-Green Bay),</i>
12:00-12:20	ID: 258 Linearized DQ Averaged Model of Modular Multilevel Converter <i>ashok nampally* (University of Aberdeen), Yashwant Sinha (Robert Gordon University),</i>
12:40-14:00	LUNCH BREAK
12:20-14:20	Poster Session
Date: 23 November 2016 - PM HALL: GALLERY HOSPITALITY SUITE 17	
TRACK: Distributed Generation Resources... SESSION CHAIR: Subhransu Sekhar Dash	
14:20-14:40	ID: 250 Energy Management of Multi-carrier Smart Buildings for Integrating Local Renewable Energy Systems <i>Giuseppe Paternò* (Engineering Ingegneria Informatica S.p.A.), Diego Arnone (Engineering Ingegneria Informatica S.p.A.), Alessandro Rossi (Engineering Ingegneria Informatica S.p.A.), Vincenzo Croce (Engineering Ingegneria Informatica S.p.A.), Salvatore Emma (University of Palermo), Rosario Miceli (University of Palermo), Antonino Oscar Di Tommaso (University of Palermo),</i>

14:40-15:00	ID: 297 A Modified Module Integrated - Interleaved Boost Converter for Standalone Photovoltaic (PV) Applications <i>sridhar r*(srm), Somashree pathy(SRM), Dr.C SUBRAMANI(SRM UNIVERSITY), NIKITA HARI(CAMBRIDGE), Dr.S.S DASH(SRM UNIVERSITY),</i>
15:00-15:20	ID: 293 INTEGRATION OF RENEWABLE ENERGY RESOURCES IN OFF GRID SYSTEM USING THREE PORT ZETA CONVERTER <i>ILAMBIRAI R.C.(SRM UNIVERSITY), CHELLAMAL N(SRM UNIVERSITY), Dr.S.S DASH*(SRM UNIVERSITY) ,</i>
15:20-15:40	ID: 229 Implementation of an Adaptive Control Strategy for Solar Photo Voltaic Generators in Microgrids with MPPT and Energy Storage <i>Rajesh K.S.*(SRM UNIVERSITY), Dr.S.S DASH(SRM UNIVERSITY), Ramazan Bayindir(Gazi University), sridhar r(srm), Ragam Rajagopal(VIT),</i>
15:40-16:00	ID: 271 Decision-Support Model for Battery Energy Storage System Inclusion in Grid-Connected PV Systems for Medium Voltage Applications <i>nisrine kebir*(Mohammedia School of Engineers), Mohamed Maaroufi(Mohammedia School of Engineers),</i>
16:00-16:20	COFFEE BREAK
POSTER SESSION-1 (23 November 2016 TUESDAY, 12:20-14:20) HALL: GALLERY BREAKOUT AREA	
TRACK	SESSION CHAIR: V. Fernaldo Pires, Helmut Weiss
<p>ID: 196 Control Method for Flyback based submodule Integrated Converter with Differential power Processing Structure <i>Guanying Chu(XJTLU), Huiqing Wen*(XJTLU), Yihua Hu(Liverpool Univeristy),</i></p> <p>ID: 298 Photovoltaic Cell Electrical Heating System for Removing Snow on Panel Including Verification <i>Agnes Weiss(BG+BRG Leoben), Helmut Weiss*(Montanuniversitaet Leoben),</i></p> <p>ID: 307 High Safety Photovoltaic Insular Power Supply System Employing Re-Used Lithium-Ion Cells <i>Agnes Weiss*(BG+BRG Leoben), Herbert Ziegerhofer (Montanuniversitaet Leoben),</i></p> <p>ID: 342 Measuring Rain Energy with the Employment of “Arduino” <i>Fabio Viola*(Università di Palermo), Gianluca Acciari(University of Palermo), Rosario Miceli(University of Palermo), Pietro Romano(University of Palermo), Luca Riggi(University of Palermo), Massimo Caruso(University of Palermo), Giuseppe Schettino(University of Palermo),</i></p> <p>ID: 337 Absorption Enhancement in the Metamaterials Employing Surface Plasmon Polariton(SPP) <i>Richard Kyung*(CRG),</i></p> <p>ID: 345 Study design of photovoltaic pumping system for the water supply of an agricultural diversity <i>Yassaad Abdelbaki*(abdelbaki),</i></p> <p>ID: 305 Technical and Economic Prospects for the Site Implementation of a Gravitational Water Vortex Power Plant In Nepal <i>Rabin Dhakal*(Tribhuvan University), S.J Williamson (University of Bristol), Kshitiz Khanal (Kathmandu University), Binod Babu Kumal (Central Campus Pulchowk), Abhash Acharya (Central Campus Pulchowk), Anil Nepal (Central Campus Pulchowk), Tara Aryal (Central Campus Pulchowk), Laxmi Devkota (Budhi Gandaki Hydro Power Development Committee),</i></p> <p>ID: 369 Enhanced rate capability and cycle performance of titanium substituted P2-type Na_{0.67}Fe_{0.5}Mn_{0.5}O₂ asa cathode for sodium-ion batteries <i>Jun-gi PARK*(Dankook University),</i></p> <p>ID: 370 Preparation of Lithium-Doped Na₂Ti₃O₇ by solid-state method and its electrochemical performances <i>Da Ye YOON*(Dankook University),</i></p> <p>ID: 146 Designing a piezoelectric energy harvester using clicking mechanism <i>Jeong Hun Kim(Hanyang University), Sung Joo Hwang(Hanyang University), Yewon Song(Hanyang University), Chan Ho Yang(Hanyang University), Min Sik Woo(Hanyang University), Gyeong Ju Song(Hanyang University), Tae Hyun Sung*(Hanyang University),</i></p> <p>ID: 206 Interfacing of Regulator And Rectifier Unit With Solar Charge Controller For Optimal Utilization of Solar Power On Railway Coaches <i>Dr Amruth Thekarak*(JIT), Balaji Veerasamy(Jimma Institute of Technology), Tefera Mekonnen(JIT), Mohammed Ahmmed(JIT), Abraham Alem(JIT), Aberra Jote(JIT),</i></p> <p>ID: 260 Hybrid PV-UPS System with Multilevel Structure of Power Converters and Reliability Improvement <i>V. Fernaldo Pires*(ESTSetubal/IPS), Carlos Vieira(ESTSetubal/IPS),</i></p> <p>ID: 261 Bidirectional Boost/Buck Quadratic Converter for Distributed Generation Systems with Electrochemical Storage Systems <i>Daniel Foito*(ESTSetubal - IPS), V. Fernaldo Pires(ESTSetubal/IPS), Armando Cordeiro(ISEL - IPL),</i></p> <p>ID: 328 Maximum Power Point Tracker with Solar Prioritizer in Photovoltaic Application <i>Subash Gautam*(Acme Engineering College), Debendra Bahadur Raut(Acme Engineering College), Rabin Dhakal(Tribhuvan University), Prabesh Neupane (Central Campus), Dhan Prasad Ghale (Tribhuvan University),</i></p> <p>ID: 329 Management, Optimal Sizing and Technical-Economic Analysis of Batteries for Constant Production in Photovoltaic Systems <i>Harun TURKER*(Haute École d'Ingénierie et d'Architecture de Fribourg / TH Smart Grid Expertise & Consulting),</i></p> <p>ID: 4 A Review of Community Electrical Energy Systems <i>D. Strickland (Aston University), M Abedi Varnosfederani (Aston University), J Scott (Aston University), A Duran (EA Technology), P Quintela (e2E) R Bravery (City of Wolverhampton Council), A Corliss (Encraft), K Ashworth (Encraft), S Blois-Brooke (Encraft)</i></p>	

ID: 322 JIC (Jubail Industrial College) Green Initiative money benefits

mohammed ALEid(Jubail Industrial College), fouad Zayadin(Jubail Industrial College), Mohammed Abdul Baseer(Jubail Industrial College), Shareef Al-Shekshaky(Jubail Industrial College), Zarshad Zarshad(Jubail Industrial College),*