

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	
09:00-10:30	TUTORIAL-1	09:00-09:30	Opening Ceremony	09:00-09:45	KEYNOTE SPEECH-3	09:00-09:20	ORAL PRESENTATION (5 PARALEL SESSION) 5 PAPERS*20 MINUTES 25 PAPERS
		09:30-10:30	KEYNOTE SPEECH-1	09:45-10:30	KEYNOTE SPEECH-4	09:20-09:40	
10:30-12:00	TUTORIAL-2	10:30-11:00	COFFEE BREAK			10:00-10:20	
		11:00-12:00	KEYNOTE SPEECH-2	11:00-12:00	KEYNOTE SPEECH-5	10:20-10:40	
12:00-13:00	LUNCH TIME					10:40-11:00	COFFEE BREAK
	13:00-14:30	TUTORIAL-3	12:20-14:20	POSTER PRESENTATION (30 PAPERS)	12:20-14:20	POSTER PRESENTATION (30 PAPERS)	12:20-14:20
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	14:20-14:40	ORAL PRESENTATION (5 PARALEL SESSION) 5 PAPERS*20 MINUTES 25 PAPERS
14:40-15:00				14:40-15:00		14:40-15:00	
15:00-15:20				15:00-15:20		15:00-15:20	
15:20-15:40				15:20-15:40		15:20-15:40	
15:40-16:00			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		
		16:20-16:40	ORAL PRESENTATION (5 PARALEL SESSION) 5 PAPERS*20 MINUTES 25 PAPERS	16:20-16:40	ORAL PRESENTATION (5 PARALEL SESSION) 5 PAPERS*20 MINUTES 25 PAPERS	16:20-16:40	ORAL PRESENTATION (5 PARALEL SESSION) 5 PAPERS*20 MINUTES 25 PAPERS
		16:40-17:00		16:40-17:00		16:40-17:00	
		17:00-17:20		17:00-17:20		17:00-17:20	
		17:20-17:40		17:20-17:40		17:20-17:40	
17:40-18:00	17:40-18:00	17:40-18:00					
18:00-20:00	WELCOMING PARTY			19:00-21:30	GALA DINNER	16:20-16:40	CLOSING CEREMONY

<b>Date: 20 November 2016</b>	
08:30–17:00	<b>Registration</b>

<b>Date: 20 November 2016</b>	
<b>TUTORIALS</b>	
09:00–10:30	<b>TUTORIAL-1</b>
10:30–12:00	<b>TUTORIAL-2</b>
12:00–13:00	<b>LUNCH BREAK</b>
13:00–14:30	<b>TUTORIAL-3</b>

<b>Date: 20 November 2016</b>	
18:00–20:00	<b>WELCOME RECEPTION</b>

<b>Date: 21 November 2016</b>		<b>HALL:</b>
08:30-17:00	Registration	
<b>Date: 21 November 2016 - AM</b>		<b>HALL:</b>
09:00-09:30	Opening Ceremony and Speeches	
<b>KEYNOTE</b>		<b>HALL:</b>
09:30-10:30		
10:30-11:00		<b>COFFEE BREAK</b>
<b>KEYNOTE</b>		<b>HALL:</b>
11:00-12:00		
12:00-13:00		<b>LUNCH BREAK</b>
12:20-14:20	Poster Session	

<b>ORAL PRESENTATIONS</b>		
<b>Date: 21 November 2016 - PM</b>		<b>HALL:</b>
<b>TRACK 1</b>		
<b>SESSION CHAIR:</b>		
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( Univerisità di Cagliari), Alfonso Damiano*( Università 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( Unknown), 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		<b>COFFEE BREAK</b>
<b>TRACK 2</b>		
<b>SESSION CHAIR:</b>		
16:20-16:40	ID: 317 PI CONTROLLED SOLAR ENERGY SUPPORTED STATIC EXCITATION SYSTEM DESING AND SIMULATION FOR SYNCHRONOUS GENERATORS Naki GÜLER*( Gazi University), Naki Guler( Unknown), Erdal Irmak( Gazi University), Mustafa Ersan( KONELISIS),	
16:40-17:00	ID: 354 Photovoltaic power systems deployment for half a century and our technical contribution in Asia Yosuke Nozaki*( NTT FACILITIES), Keiichiro Hakuta( NTT FACILITIES),	
17:00-17:20	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),	
17:20-17:40	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),	
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),	

<b>Date: 21 November 2016 - PM</b>		<b>HALL:</b>
<b>TRACK 1</b>		
<b>SESSION CHAIR:</b>		
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), Constantinou 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 Erdal Irmak*( Gazi University), Ali KOSE( Gazi University), Gökhan Göçmen( Gazi University),	
16:00-16:20	<b>COFFEE BREAK</b>	
<b>TRACK 4</b>		
<b>SESSION CHAIR:</b>		
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( Unknown), 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( Gazi University),	
<b>Date: 21 November 2016 - PM</b>		
<b>HALL:</b>		
<b>TRACK 3</b>		
<b>SESSION CHAIR:</b>		
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( Unknown),	
15:00-15:20	ID: 144 Improving the frequency regulation in a wind integrated interconnected power system using Plug-in Electric Vehicles Deepak M*( IIST), Rajesh Joseph Abraham( IIST),	
15:20-15:40	ID: 234 Borehole temperature logging using four-wire resistance measurement method Kamil Erkan*( Marmara 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	<b>COFFEE BREAK</b>	
<b>TRACK: Autonomous Dynamic Intelligent Systems</b>		
<b>SESSION CHAIR:</b>		
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), Constantinou 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 riah( Amirkabir University of Technology ), ehsan morad( Amirkabir University of Technology),	
17:00-17:20	ID: 172 Novel Unified Power Quality Conditioner (UPQC) of Two DC Links Connected with Resistor Xiaogang Xu( Electric Power Research Institute Guangdong power grid co.), Yingpin Wang*( South China University of Technology), Lanfang Li( Electric Power Research Institute Guangdong power grid co.), Yunxiang Xie( South China University of Technology), Xiaoyu Zhang( South China University of Technology), Zhiwu Zeng( South China University of Technology),	
17:20-17:40	ID: 218 Current Harmonics Mitigation using Modular Multilevel Converter-based Shunt Active Power Filter Amr Madi( Arab Academy for Science), Mostafa Hamad*( Arab Academy for Science), Khaled Ahmed( University of Aberdeen),	
17:40-18:00	ID: 219 New Detection of Symmetrical Components Under Unbalanced Conditions for Control of Converters Connected to Grid Miguel Panduro*( University Natioal of Piura),	

Date: 21 November 2016 - PM		HALL:
<b>TRACK: Renewable Energy Visions</b>		<b>SESSION CHAIR:</b>
14:20-14:40	ID: 344 Sensitivity Analysis of a Bidirectional Wireless Charger for EV Alicia Triviño( Universidad de Málaga), JOSE AGUADO( UNIVERSITY OF MALAGA), Michela Longo*( Politecnico di Milano), Federica Foiadelli( Politecnico di Milano),	
14:40-15:00	ID: 352 Day-Ahead Forecasting for Photovoltaic Power Using Artificial Neural Networks Ensembles 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),	
15:00-15:20	ID: 362 Economic Evaluation of PV System for EV Charging Stations: Comparison between matching Maximum Orientation and Storage System Employment 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),	
15:20-15:40	ID: 364 CO2 Reduction Exploiting RES for EV Charging 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),	
15:40-16:00	ID: 365 A Novel MPPT Algorithm for Photovoltaic Systems under Dynamic Partial Shading - Recurrent Scan and Track Method 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),	
16:00-16:20	<b>COFFEE BREAK</b>	
<b>TRACK Renewable Energy Modelling</b>		<b>SESSION CHAIR:</b>
16:20-16:40	ID: 14 Energy management of Photovoltaic/Wind Pumping System with Battery Storage Djamila REKIOUA*( University of Bejaia), Chafiaa Serir( Université de Bejaia), Seddik Bacha( G2elab INP Grenoble France),	
16:40-17:00	ID: 18 Design of a Half-Bridge Bootstrap Circuit for Grid Inverter Application Controlled by PIC24FJ128GA010 Mohannad Mnati*( Ghent University),	
17:00-17:20	ID: 60 Small Scale DFIG Test Rig Facilities Implementing Vector Control Using Industrial Converters NUR SARMA*( THE UNIVERSITY OF MANCHESTER), Sinisa Durovic( The University of Manchester),	
17:20-17:40	ID: 69 Analytical Modeling Concept for Weather Phenomena as Renewable Energy Resources Franz Christange*( Technical University of Munich), Thomas Hamacher( Technical University of Munich),	
17:40-18:00	ID: 147 Small-Scale compressed air energy storage system (SS-CAES) without fossil fuel input and with tri-generation option: thermodynamic modeling and experimental validation Guewouo Thomas( université de Nantes), LUO Lingai*( Laboratoire de thermocinétique de Nantes),	
Date: 21 November 2016 - PM		HALL:
<b>TRACK 1</b>		<b>SESSION CHAIR:</b>
14:20-14:40	ID: 5 Heat loss analysis: an approach towards the revival of parabolic dish type solar cooker Prof. Shailendra Shukla*( CERD), Arun Kumar( CERD),	
14:40-15:00	ID: 6 A maximum power point tracker based the whale optimization algorithm for controlling the performance of induction motor fed by a photovoltaic system osama elbaksawi*( faculty of engineering),	
15:00-15:20	ID: 16 Optimization of a Fuzzy Logic Control Based MPPT Algorithm in Photovoltaic System Using the Particle Swarm Optimization YAHIAOUI Fatah*( University of Bejaia),	
15:20-15:40	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),	
15:40-16:00	ID: 25 thermal efficiency of a liquid-liquid-vapour direct contact heat exchanger for the utilisation for solar energy applications Hameed B. Al-Muhammedawi*( University of Misan),	
16:00-16:20	<b>COFFEE BREAK</b>	
<b>TRACK 1</b>		<b>SESSION CHAIR:</b>
16:20-16:40	ID: 86 Enhancing Frequency Response of Wind Farms using Hybrid Energy Storage Systems Stalin Munoz Vaca*( Newcastle University), Charalampos Patsios( Newcastle University), Phil Taylor( Newcastle University),	
16:40-17:00	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),	
17:00-17:20	ID: 116 Design of a Direct-Drive Permanent Magnet Generator for a 50 kW Wind Turbine Aydin Başkaya*( TUBITAK/MAM Energy Institute), Ozan Keysan( Middle East Technical University),	
17:20-17:40	ID: 141 Vector Control of DFIG in Wind Power Applications Lale Ergene*( Istanbul Technical University),	
17:40-18:00	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),	

## TRACK

## SESSION CHAIR:

- 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 Yusuff( Tshwane University of Technology),
- ID: 312 Wind Power Forecasting: Using Gaussian Process  
Hacene Benkhoulou\*( University of science and tech), Asraoui Abderrahmane( Oran University of Science and Technology - Mohamed Boudiaf),
- ID: 9 Photovoltaic and Thermal Hybrid Collectors (PVT) based on Binary Materials  
Khelifa Abdelkrim\*( URAER), Haloui Hafsia( URAER), Touafek Khaled( URAER), Zaabat Mourad( Laboratoire des composants actifs et matériaux), Ben Cheikh El Hocine Hanene( URAER),
- 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 Univeristy),
- 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: 72 Aerodynamic effects of wind loads on Heliostat under Algerian climate  
omar Mahfoud\*( CDER), MOHAMMED DEBBACHE( CDER), Abdelatif TAKILALTE( Centre de Développement des Energies Renouvelables), Housseyn Karoua( CDER), sofiene bouaichaoui( CDER), Abderrahmane Hamidat( Centre de Développement des Energies Renouvelables),
- 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), Bcharia NADJI( UMBB),
- ID: 93 Storing the Sun – Key To Sustainable Energy  
Atishay jain\*( VIT Vellore India ),
- 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: 7 PI Controller parameters design of doubly feed induction generator Based on Mine Blast Algorithm  
osama elbaksawi\*( faculty of engineering),
- 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 Tlemcan),
- 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: 269 Optimal tracking ,modeling and control of aerogenerator based on PMSG driven by wind turbine  
SAAD LADIDE\*( université caddi ayyad), Hicham HIHI( université CADI AYYAD),
- ID: 270 Synchronous Reluctance Machine with Integer-Slot Double-Layer Concentrated Winding for Wind Energy Applications  
Volodymyr Bilyi\*( Universitaet der Bundeswehr Muenchen),
- 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),
- ID: 288 DC Link Balancing of Space Vector Modulation Controlled Three-Level Converter for Ocean Wave Energy Conversion  
ilknur colak\*( ABB), Derya Ahmet Kocabas( Istanbul Technical University),
- ID: 290 Power Quality Control in Grid-interactive Micro-power Systems  
Ahsan Shahid\*( University of Illinois at Chicago),

ID: 331 Robust Current Control of Grid-Connected Modular Multilevel Converters With Nonlinear Observer of Capacitor Voltages during Unbalanced Voltage Sag

Amin Hajizadeh\*( Aalborg University), Lars E. Norum( Norwegian University of Science and Technology),

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: 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: 211 An Improved PV Array Configuration for PV system in the Present of MPPT during Partial Shading Condition

NUR KAMARZAMAN \*( UNIVERSITI TEKNOLOGI MARA PULAU PINANG ),

<b>Date: 22 November 2016</b>		<b>HALL:</b>
08:30-17:00	<b>Registration</b>	
<b>Date: 22 November 2016 - AM</b>		<b>HALL:</b>
<b>KEYNOTE</b>		
09:00-09:45		
09:45-10:30		
10:30-11:00	<b>COFFEE BREAK</b>	
<b>KEYNOTE</b>		
11:00-12:00		
12:00-13:00	<b>LUNCH BREAK</b>	
12:20-14:20	Poster Session	

**ORAL PRESENTATIONS**

**Date: 22 November 2016 - PM** **HALL:**

**TRACK 11** **SESSION CHAIR:**

14:20-14:40	ID: 23 Increasing Efficiency of an Existing Francis Turbine by Rehabilitation Process Deniz Sarper Semerci*( Baskent University), Tahir Yavuz( Baskent University),
14:40-15:00	ID: 27 Electronic Carnot Engine (ECE) Kan Cheng*( KansLab),
15:00-15:20	ID: 35 Placement of FACTS Devices for Congestion Management- A Review madhavi gupta*( IFTM University),
15:20-15:40	ID: 37 Automated Test Chamber for Indoor Photovoltaics Yannick Verbelen*( Vrije Universiteit Brussel),
15:40-16:00	ID: 39 A comparative study of voltage gain tolerance in conventional and three-level LLC converters against circuit variation Hiroyuki Haga*( Shindengen Electric Manufacturing Co.), Hidenori Maruta( Nagasaki University), Fujio Kurokawa( Nagasaki University),

**16:00-16:20** **COFFEE BREAK**

**TRACK 1** **SESSION CHAIR:**

16:20-16:40	ID: 231 Optimal Location Identification Of FACTS Devices Through Genetic Algorithm And The Network Structural Characteristics Techniques 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),
16:40-17:00	ID: 323 Research on Dynamic Heat Transfer of A Series-parallel Hybrid Electric Vehicle Xiaoxia Sun*( China North Vehicle Research Institute),
17:00-17:20	ID: 250 Energy Management of Multi-carrier Smart Buildings for Integrating Local Renewable Energy Systems 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),
17:20-17:40	ID: 26 Wind Energy Potential and Economic Analysis of WECS in Four Selected Locations in Algeria omar charrouf*( kasdi merbah university), achour betka( university of Biskra), abdelmalik taleb-ahmed( university of valenciennes), amar golea( university of Biskra),
17:40-18:00	ID: 33 Reliability optimization of wind farms considering constraints and regulations Nacef TAZI*( University of Technology of Troyes),

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**TRACK 1** **SESSION CHAIR:**

14:20-14:40	ID: 43 Experimental Test of a Basin Solar Still with Recycling the Inner Solution BOUTEBILA HICHEM*( UNIVERSITY MENTOURI OF CONSTANTINE),
14:40-15:00	ID: 48 The Investigation of a Segment Multi-Chamber Oscillating Water Column in Physical Scale Model Mohammad Shalby( University of Technology Sydney ), Paul Walker( University of Technology Sydney), David Dorrell*( University of KwaZulu Natal),
15:00-15:20	ID: 52 Development of Magnetic Assist System in Flywheel Energy Storage System for Power Load-Leveling 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),
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 Tsuyoshi Nagano*( Nagaoka University of Technology), Jun-ichi Itoh( Nagaoka University of Tec.),
15:40-16:00	ID: 62 Design of Swarm Intelligence Based Optimal Controller to Direct Matrix Converter Used In Renewable Energy System Mehmet SENOL*( Istanbul Gelisim University), Haluk GOZDE( Gazi University), Cengiz Taplamacioglu( Gazi University), Murat Ari( Çankırı Karatekin University),

**16:00-16:20** **COFFEE BREAK**

**TRACK 10** **SESSION CHAIR:**

16:20-16:40	ID: 159 Flatness-based adaptive fuzzy control of brushless doubly-fed reluctance machines Gerasimos Rigatos*( Unit of Industrial Automation / Industrial Systems Institute),
16:40-17:00	ID: 181 Power Flow Control in Grid Connected Wind Farm Mohamed Benchagra*( University Hassan 1er),
17:00-17:20	ID: 244 Unity Power Factor Standalone Wind Battery Charger brahim metidji*( IGEE), Rebiha metidji( LTII),
17:20-17:40	ID: 249 Offline Parameter Estimation of a Doubly-Fed Induction Generator Driven by a Wind Turbine SeyedHamed EghbaliDogahneh*( Stellenbosch University), Nkosinathi Gule( Stellenbosch University), HJ Vermeulen( Stellenbosch University),
17:40-18:00	ID: 21 WindWEC: Combining Wind and Wave Energy, Inspired by Hywind and Wavestar Madjid Karimirad*( MARINTEK),

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<b>TRACK 7</b>		
<b>SESSION CHAIR:</b>		
14:20-14:40	ID: 182 CFD vs. XFOIL of Airfoil Analysis at Low Reynolds Numbers ONUR GUNEL*( Yildirim Beyazit University), Tahir Yavuz( Baskent University), EMRE KOC( Baskent University),	
14:40-15:00	ID: 281 Techno-economic Comparison of PV and Diesel for Water Pumping and Farm Facilities applications in Nigeria Olubayo Babatunde( University of Lagos), Akintunde Alayande*( Tshwane University of Technology), Claudius Ojo Aremu Awosope( Covenant University), Isaac Samuel( Covenant University),	
15:00-15:20	ID: 313 The Design, Control and Dynamic Performance of an Interior Permanent Magnet Synchronous Generator for Wind Power System Olusegun Solomon*( Olriz Center),	
15:20-15:40	ID: 29 An Investigation into the Technical Impacts of Microgeneration on UK-Type LV Distribution Networks Donald Azuatalam*( University of Sydney), Obinna Unigwe( University of Edinburgh), Pairach Kitworawut( PEA Thailand),	
15:40-16:00	ID: 107 Surface Polarization Effect and Recovery Process of Crystalline-Si Photovoltaic Modules Simone Casula( Sardegna Ricerche), Malgorzata Gawronska( Sardegna Ricerche), Carla Sanna( Sardegna Ricerche), Alfonso Damiano*( Universit� di Cagliari),	
16:00-16:20	<b>COFFEE BREAK</b>	
<b>TRACK 8</b>		
<b>SESSION CHAIR:</b>		
16:20-16:40	ID: 140 Expanding ZVS Range for Dual Active Bridge DC-DC Converter Using Three-level Neutral-point-clamped Inverter Topology Yoshiki Ikai*( Tokyo University of Science), Nobukazu Hoshi( Tokyo University of Science),	
16:40-17:00	ID: 148 Improving Power Generation Capability of The Surface Mounted Permanent Magnet Generator Using Series Resonant Converter Muhammet Biberoglu*( Yalova University), Levent Ovacik( Unknown),	
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 qianqian jiao*( UW-Milwaukee), Rasoul Hosseini( UW-Milwaukee), Robert Cuzner( UW-Milwaukee),	
17:20-17:40	ID: 180 Model for Smart Appliances toward Smart Grid into Smart City Mariacristina Roscia*( "University of Bergamo),	
17:40-18:00	ID: 195 A Reliability Evaluation Method for Distribution Networks Considering Passive Islanding Detection Failure YingHui NIE*( Southeast University), Wei Gu( Southeast University), JunPeng Zhu( Southeast university),	
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<b>SESSION CHAIR:</b>		
<b>TRACK</b>		
14:20-14:40	ID: 125 A Simulated Analysis of Zigzag-type DMFC Characteristics upon Varying the Electrode Form and Size Hiroaki Nagahama*( Tokyo University of Science),	
14:40-15:00	ID: 198 Evaluation of different maximum power point tracking techniques based on practical meteorological data Xingshuo Li( XJTLU), Huiqing Wen*( XJTLU), Yihua Hu( Liverpool Univeristy),	
15:00-15:20	ID: 251 Offline Parameter Estimation of a Doubly-Fed Induction Generator Driven by a Wind Turbine SeyedHamed EghbaliDogaheh*( Stellenbosch University), Nkosinathi Gule( Stellenbosch University), HJ Vermeulen( Stellenbosch University),	
15:20-15:40	ID: 256 Development of Composites Materials Based on Porous Microfibrous Carbon and Zinc Oxide for Energy Storage Applications Tarik Bordjiba*( Universit� 8 mai 1945 ), Bilel Bouguerme( Universit� 8 mai 1945 ), Ourida Mahmoudi ( Universit� 8 mai 1945 ), Youcef Guetteche( Universit� 8 mai 1945 ), Ahcene Lemzadmi( Universit� 8 mai 1945 ),	
15:40-16:00	ID: 284 Off Grid PV System For Hydrogen Production Using Methanol Electrolysis With an Optimal management strategy Hammou TEBIBEL*( Centre de D�veloppement des Energies Renouvelables),	
16:00-16:20	<b>COFFEE BREAK</b>	
<b>TRACK 5</b>		
<b>SESSION CHAIR:</b>		
16:20-16:40	ID: 81 NUMERICAL SIMULATION AND PERFORMANCE ESTIMATION OF A CROSS FLOW TURBINE Alaattin KAYA*( Bartin University), Yavuz Ozdemir( Bartin University), Ali Dogrul( Yildiz Technical University),	
16:40-17:00	ID: 97 Daily Direct Normal Irradiance Forecasting by Support Vector Regression Case Study: in Ghardaia- Algeria TAKILALTE Abdelatif*( Centre de D�veloppement des Energies Renouvelables),	
17:00-17:20	ID: 105 Mode Adaptive Inverter Control for synchronization, islanding and grid connected modes in abc frame Md Umar Hashmi*( INRIA), Umar Hashmi( ENS),	
17:20-17:40	ID: 120 Comparative Study of using Thermoelectric Cells for Solar Photovoltaic Cooling Marc Hoekstra*( AElInnova), Shereen Ramadan( AElInnova),	
17:40-18:00	ID: 122 Power Management of Grid Connected Hybrid Microgrid with Dual Voltage Source Inverter RAM YALLAMILLI*( INDIAN INSTITUTE OF TECHNOLOGY MADRAS),	
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<b>SESSION CHAIR:</b>		
<b>TRACK</b>		
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: 158 A nonlinear H-infinity approach to optimal control of PEM fuel cells Gerasimos Rigatos*( Unit of Industrial Automation / Industrial Systems Institute),	
15:40-16:00	ID: 161 A Distributed Controller for DC Microgrids Stability Enhancement Marzieh Karami*( University of Wisconsin-Milwaukee), Robert Cuzner( University of Wisconsin-Milwaukee),	
16:00-16:20	<b>COFFEE BREAK</b>	
<b>TRACK 5</b>		
<b>SESSION CHAIR:</b>		
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 Polit�cnica de Catalunya), Jose Ignacio Candela( Universitat Polit�cnica 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),	
18:00-18:20	ID: 274 Multilevel converter system for photovoltaic panels Luciano Cala�a*( University of Madeira),	

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## SESSION CHAIR:

- 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 roccaforti( 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.), Xiaoqiang Xu( Electric Power Research Institute Guangdong power grid co.),
- ID: 175 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 Deener( 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: 253 Design and Analysis of MHz Range Converter for Mid Range Low Wireless Power Transfer Systems  
Narayanamoorthi R\*( SRM University),
- 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: 327 Adoption of Solar Energy Operated Backup Systems: Perception vs. Rationality  
Shahbaz Abbas\*( Capital University of Science and Technology),
- 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: 314 Plasmonically-Enhanced Optical Absorption in Organic Solar Cells with Metal Nanostructures  
Md Zahurul Islam\*( BUET), Farjana Sniqdhra( BUET), Md. Hasan( BUET),
- 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 ), Zhenqiu 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: 266 Poor People's Energy Outlook: Bangladesh: Energy access, need and priority in the rural off grid areas of Bangladesh  
Taif Rocky\*( Practical Action Bangladesh),
- ID: 267 Cooking Practices and Priorities in the Off-Grid Rural Communities of Bangladesh  
Taif Rocky\*( Practical Action Bangladesh),
- 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: 109 PCA analysis of distributed temperature sensing data from an asphalt field  
J. Birgitta Martinkauppi\*( University of Vaasa), Anne M♦kiranta( University of Vaasa), Erkki Hiltunen( University of Vaasa),
- 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: 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 Alqareu ( University of Birmingham),
- ID: 368 Lead Acetate Based Hybrid Perovskite through Hot Casting for Planar Heterojunction Solar Cells  
WONGYU CHOI\*( donkook university),

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08:30-17:00	Registration	
<b>ORAL PRESENTATIONS</b>		
Date: 23 November 2016 - AM		HALL:
<b>TRACK 1</b>		
<b>SESSION CHAIR:</b>		
09:00-09:20	ID: 164 Difficulties and Recommendations for More Accurately Predicting the Performance of Solar Energy Systems during the Snow Season Lisa Bosman*( College of Menominee Nation), Seth Darling( Argonne National Laboratory),	
09:20-09:40	ID: 192 Hybrid Renewable Energy System based on Intelligent Optimization Techniques Katheryn Donado Mercado( Universidad del Norte), Christian G. Quintero M.*( Universidad del Norte),	
09:40-10:00	ID: 184 Research of Several Reference Current Extracting Methods in Time Domain 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),	
10:00-10:20	ID: 233 Power Differential Method Based Islanding Detection in PV Systems Okan Ozgonenel*( Ondokuz Mayıs University),	
10:20-10:40	ID: 336 Thermodynamic Analysis of Alane and Borane Clusters for Hydrogen Storage Richard Kyung*( CRG),	
10:40-11:00	<b>COFFEE BREAK</b>	
<b>TRACK 1</b>		
<b>SESSION CHAIR:</b>		
11:00-11:20	ID: 203 Solution to Network Usage Allocation Problem in Power Networks Akintunde Alayande*( Tshwane University of Technology), Abdul-Ganiyu Jimoh( Tshwane University of Technology), Adedayo Yusuff( Tshwane University of Technology),	
11:20-11:40	ID: 220 A Proposed Method for Predicting Voltage Collapse in Power Networks Claudius Awosope*( Covenant University), Akintunde Alayande( Tshwane University of Technology), John Alayande( Ladoke Akintola University of Technology), Ayoade Ogundare( Lagos state Polytechnic),	
11:40-12:00	ID: 238 A BLDC Motor Drive with Four Switch Three Phase Inverter Şafak EKMEŃ*( Istanbul Technical University), Bekir FINCAN( Istanbul Technical University), MURAT ?MERYŃZ( Istanbul Technical University),	
12:00-12:20	ID: 245 A New Approach of Optimum Energy Scheduling of Emergency Generators Using Linear Programming in a Large Hospital 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),	
12:40-14:00	<b>LUNCH BREAK</b>	
12:20-14:20	Poster Session	
Date: 23 November 2016 - PM		HALL:
<b>TRACK 1</b>		
<b>SESSION CHAIR:</b>		
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 bharatiraja C*( SRM University - kattangulathur Campus), Munda Lange( Tshwane University of Technology), RAMAZAN BAYINDIR( GAZ UNIVERSITY), Mohd Tariq( NTU Singapore),	
14:40-15:00	ID: 197 Unified Harmonics Based Method to Reduce Reactive Power of the Dual Active Bridge Converter Haochen Shi( XJTU), Huiqing Wen*( XJTU), Jie Chen( XJTU), Yihua Hu( Liverpool University),	
15:00-15:20	ID: 208 A Modified MPPT Algorithm with Integrated Active Power Control for PV-Battery Systems Fulong Li( Aston University), Muhannad Alshareef( Aston University), Zhengyu Lin*( Aston University), Wei Jiang( Yangzhou University),	
15:20-15:40	ID: 278 Automatic voltage and reactive power control in distribution systems: dynamic coupling analysis Riccardo Campaner( University of Trieste), Massimiliano Chiodone*( University of Trieste), Federico Milano( Electricity Research Centre (ERC) UCD School of Electrical), Giorgio Sulligoi( University of Trieste),	
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 Hirokazu Tahara*( Osaka Institute of Technology),	
16:00-16:20	<b>COFFEE BREAK</b>	
<b>TRACK 5</b>		
<b>SESSION CHAIR:</b>		
16:20-16:40	ID: 64 Friction welding of lightweight motor shafts for electric vehicles Tetsuya Akiyama( Akiyama Manufacturing Co.), Takuro Honda*( Kumamoto university), Yoshitaka NAKANISHI( Unknown),	
16:40-17:00	ID: 78 Distribution Network Reconfiguration in Smart Grid System Using Modified Particle Swarm Optimization Inji Atteya*( Aston University), Nagi Fahmi( Aston University), Dani Strickland( Aston University), Hamdy Ashour( Arab Academy for Science and Technology),	
17:00-17:20	ID: 96 Conducted Noise Reduction on AC/DC Converter using SiC-MOSFET Hidetoshi Tanaka*( Nagoya Institute of Technology), Kazuma Suzuki( Nagoya Institute of Technology), Wataru Kitagawa( Nagoya Institute of Technology), Takaharu Takeshita( Nagoya Institute of Technology),	
17:20-17:40	ID: 101 Electric Power Leveling of the Microgrid System with PV Power Generation Estimation and Power Demand Estimation Hiroshi Awata*( Tokyo University of Science),	
17:40-18:00	ID: 127 Comparison of Converter Arrangement of Series and Shunt Converters in UPFC for Distribution System Control Masamichi Kano*( Nagoya Institute of Technology), Takuya Maekawa( Nagoya Institute of Technology), Takaharu Takeshita( Nagoya Institute of Technology), Yasuyuki Kunii( Chubu Electric Power Co.),	

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<b>TRACK 1</b>		
<b>SESSION CHAIR:</b>		
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 Murat ÜNLÜ*( Kocaeli University), Sabri ÇAMUR( Kocaeli University), Ersoy BEŞER( Kocaeli University), Birol ARİFOĞLU( Kocaeli University),	
09:20-09:40	ID: 265 Economic evaluation of offshore wind potential in western coast of India Nagababu Garlapati*( Pandit Deendayal Petroleum University), Neil Dave( Pandit Deendayal Petroleum University), Surendra Kachhwaha( Pandit Deendayal petroleum University),	
09:40-10:00	ID: 359 Optimal control based RST controller for Maximum Power Point Tracking of Wind Energy Conversion System Youcef Soufi*( University Larbi Tébéssi), Sami Kahla( Centre de Recherche en Technologies Industrielles CRTI), Bechouat Mohcene( Department of Electronic and Telecommunication),	
10:00-10:20	ID: 87 A Study on Undesired Case of Unlicensed PV Power Plants in Turkey with regard to DSO Atakan Akgün*( Enerjisa-Başkent EDAŞ), Seyit Cem Yılmaz( Enerjisa-Başkent EDAŞ), Mahmut Erkut Cebeci( EPRA),	
10:20-10:40	ID: 171 Design of ZVS based High Gain DC-DC Converter for PV Applications Manoj B Anurag( IIT Bhubaneswar), Sai Thrinath Gunda( IIT Bhubaneswar), Srinivas Karanki*( IIT Bhubaneswar), RAM YALLAMILLI( INDIAN INSTITUTE OF TECHNOLOGY MADRAS),	
10:40-11:00	<b>COFFEE BREAK</b>	
<b>TRACK 1</b>		
<b>SESSION CHAIR:</b>		
11:00-11:20	ID: 113 Maximizing Investment Value of Small-Scale PV in a Smart Grid Environment Jeremy Every*( University of Technology Sydney), Li Li( University of Technology Sydney), David Dorrell( University of KwaZulu Natal), Youguang Guo( University of Technology Sydney),	
11:20-11:40	ID: 41 Optimal Operational State Scheduling of Wind Turbines for Lower Battery Capacity in Renewable Power Systems in Islands Jeonghun Song*( Seoul National University), Seung Jin Song( Seoul National University), Si-Deok Oh( Blue Economy Strategy Institute Co. Ltd.), Yungpil Yoo( Blue Economy Strategy Institute Co. Ltd.),	
11:40-12:00	ID: 68 Policies and Strategies for Renewable Energy Development in Indonesia Yogi Alwendra*( Center for Data and Information Technology of Indonesian Ministry of Energy and Mineral Resources-PUSDATIN ESDM ), Oetomo Winarno( Center for Energy Policy Studies Institute of Technology Bandung (ITB)), Sugeng Mujiyanto( PUSDATIN ESDM),	
12:00-12:20	ID: 232 Wind Energy Allocation Strategies for Long-Term Contracts in Open Energy Markets Genaro Longoria*( TSSG), Lei Shi( TSSG), Alan Davy( TSSG), Dingde Jiang( Northeastern University),	
12:40-14:00	<b>LUNCH BREAK</b>	
12:20-14:20	Poster Session	
Date: 23 November 2016 - PM		
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<b>TRACK 1</b>		
<b>SESSION CHAIR:</b>		
14:20-14:40	ID: 236 Transformerless Grid-Connected Active Neutral-Point Clamped Inverter for PV Maximum Power Generation Mark Musembi*( University of Leeds), Li Zhang( University of Leeds),	
14:40-15:00	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),	
15:00-15:20	ID: 150 Improving Long Line Stability by Integrating Renewables Using Static Synchronous Generators Mostafa Abdollahi*( Universitat Politècnica de Catalunya (UPC) · BarcelonaTech), Jose Ignacio Candela( Universitat Politècnica de Catalunya), Joan Rocabert( Universitat Politècnica de Catalunya (UPC) · BarcelonaTech), Raul S. Muñoz( Universitat Politècnica de Catalunya (UPC) · BarcelonaTech), Juan R. Hermoso( Universitat Politècnica de Catalunya (UPC) · BarcelonaTech),	
15:20-15:40	ID: 221 Synchronous Power Controller Merits for Dynamic Stability Improvement in Long Line by Renewables Mostafa Abdollahi*( Universitat Politècnica de Catalunya (UPC) · BarcelonaTech), Jose Ignacio Candela( Universitat Politècnica de Catalunya), Joan Rocabert( Universitat Politècnica de Catalunya (UPC) · BarcelonaTech), Raul S. Muñoz( Universitat Politècnica de Catalunya (UPC) · BarcelonaTech), Juan R. Hermoso( Universitat Politècnica de Catalunya (UPC) · BarcelonaTech),	
15:40-16:00	<b>ID: 40 Wind Power Electrical Systems Integration and Technical and Economic Analysis of Hybrid Wind Power Plants</b> Tahir Yavuz( Baskent University), Özhan KIYMAZ*( AVİKON),	
16:00-16:20	<b>COFFEE BREAK</b>	
<b>TRACK 5</b>		
<b>SESSION CHAIR:</b>		
16:20-16:40	ID: 285 Improving Stability of Switching Power Supply with Digital Peak Current Mode Control Yudai Furukawa( Nagasaki University), Shintaro Nibu*( Nagasaki University), Fujio Kurokawa( Nagasaki University), ILHAMI COLAK( Gazi University),	
16:40-17:00	ID: 348 Control of A Small Wind Turbine System Application ILHAMI COLAK*( Gazi University), Abdelkader Harrouz( University of Draïa), Korhan KAYISLI( Nisantasi),	
17:00-17:20	ID: 361 Experimental Analysis with FPGA Controller-based of MC PWM Techniques for Three-phase Five Level Cascaded H-bridge for PV Applications 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),	
17:20-17:40	ID: 3 Power Device Arrangement of Single-phase Inverter with Reduced Common-mode Noise for Power Loss Reduction Seungju Lee*( Korea National University of Transportation),	
17:40-18:00	ID: 63 Local and Centralized control strategy for Capacitor Voltage Balancing of Modular Multilevel Converter Cristian Verdugo*( Universitat Politècnica de Catalunya), Jose Ignacio Candela( Universitat Politècnica de Catalunya), Pedro Rodriguez( Abengoa Research),	

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09:00-09:20	ID: 246 Hybrid Fuzzy Logic-Artificial Neural Network Controller for Shunt Active Power Filter abderrahmen benyamina( Research Laboratory LREA), Samir Moulahoum*( University of M♠d♠a), RAMAZAN BAYINDIR( GAZ UNVERSITY), ILHAMI COLAK( Gazi University),	
09:20-09:40	ID: 255 Cross Coupling Elimination and Selective Mid-Range Wireless Power Transfer to Multiple Receivers Narayanamoorthi R*( SRM University),	
09:40-10:00	ID: 263 Fault Diagnosis Methodology in Smart Grid with Distributed Energy Generation Mangal Dhend*( AISSMS College of Engg), Rajan Chile( SGGs College of Engineering and technology),	
10:00-10:20	ID: 286 Effectively Paralleling GaN FETs to achieve Ultra-high Efficiency in an Isolated DC-DC Converter Rakesh Ramachandran*( University of Southern Denmark), Morten Nymand( University of Southern Denmark),	
10:20-10:40	ID: 358 Interior Permanent Magnet Synchronous Motors: Impact of the Variability of the Parameters on their Efficiency Rosario Miceli( University of Palermo), Massimo Caruso( University of Palermo), Antonino Oscar Di Tommaso( University of Palermo), Claudio Nevoloso( University of Palermo), Ciro Spataro*( "University of Palermo), Fabio Viola( Università di Palermo),	
10:40-11:00	<b>COFFEE BREAK</b>	
<b>TRACK 1</b>		
<b>SESSION CHAIR:</b>		
11:00-11:20	ID: 320 Parked Electric Vehicle's Cabin Temperature Management Using Photovoltaic Powered Ventilation Mohan Kolhe*( University of Agder (Norway)),	
11:20-11:40	ID: 294 Characteristics evaluation of various types of PV modules in Japan and U.S. Kazuhiko Oda( NTT FACILITIES), Keiichiro Hakuta*( NTT FACILITIES), Yosuke Nozaki( NTT FACILITIES), Yuzuru Ueda( Tokyo University of Science),	
11:40-12:00	ID: 227 Evaluation of Semiconductor Losses in a Two-Stage Time-Sharing Inverter for Rooftop Photovoltaic Applications Nithiphat Teerakawanich*( Kasetsart University),	
12:00-12:20	ID: 321 DESIGN AND APPLICATION OF A NOVEL SINGLE INPUT – MULTI OUTPUT DC/DC CONVERTER Naki GÜLER( Gazi University), Erdal Irmak*( Gazi University), Naki Guler( Unknown),	
12:40-14:00	<b>LUNCH BREAK</b>	
12:20-14:20	Poster Session	
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<b>SESSION CHAIR:</b>		
14:20-14:40	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), Umüt Cetinkaya( Turkish ElectricityTransmission Company), Merden Yesil( Turkish ElectricityTransmission Company),	
14:40-15:00	ID: 193 Reliability Analysis of Wave Energy Converters Markus Mueller*( University of Edinburgh),	
15:00-15:20	ID: 24 Bio-inspired Shaft Seal in Coolant Pump for Electric Vehicles Yoshitaka NAKANISHI*( Unknown), Takuro Honda( Kumamoto university), Yuta NAKASHIMA( Kumamoto University), Keisaku NAKANO( Panasonic Corporation), Kenji KONDO( Panasonic Corporation), Hidehiko HIGAKI( Kyushu Sangyo University),	
15:20-15:40	ID: 176 Application of Multi-Port Solid State Transformers for Microgrid-Based Distribution Systems Adel Nasiri*( University of Wisconsin Milwaukee), Mohammad Rashidi( UWMilwaukee-n), Robert Cuzner( UW-Milwaukee),	
15:40-16:00	ID: 254 Basic Characteristics of Active Clamp Resonant SEPIC Circuit Yudai Furukawa( Nagasaki University), Shunsuke Tsuruoka*( Nagasaki University), SATOSHI IKEDA( Panasonic), Fujio Kurokawa( Nagasaki University),	
16:00-16:20	<b>COFFEE BREAK</b>	
<b>TRACK 5</b>		
<b>SESSION CHAIR:</b>		
16:20-16:40	ID: 268 Energy Access, Needs and Priorities for Community Services in the Rural Off-Grid areas of Bangladesh Taif Rocky*( Practical Action Bangladesh),	
16:40-17:00	ID: 343 Hedging Quantity Risks of Power Plants with Standard Power Options haitao xiang*( Tsinghua University), zhe zhou( Tsinghua University),	
17:00-17:20	ID: 19 Electrochemical synthesis and characterization of inexpensive Ni-Cu and Ni-CeO <sub>2</sub> -Cu as Fuel Cell Electrode to Produce Clean Renewable Energy from Ethanol Sujit Guchhait*( Jadavpur University), Subir Paul( Jadavpur University),	
17:20-17:40	ID: 38 Utilization of waste cooking oil as an alternative fuel for Turkey Ridvan Arslan*( Uludag University), Yahya Ulusoy( Uludag University),	
17:40-18:00	ID: 49 Wells Turbine with Booster - Effect of Guide Vanes on the Performance- Miah Md Ashrafal Alam*( National Institute of Technology), Manabu Takao( National Institute of Technology), Akiyasu Takami( National Institute of Technology), Yoichi Kinoue( Saga University), Shiya Okuhara( National Institute of Technology), Toshiaki Setoguchi( Saga University),	

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09:00-09:20	ID: 306 Big Data Issues in Smart Grid Systems Seref SAGIROGLU*( Gazi University), Ramazan Terzi( Gazi University), yavuz canbay( gazi university), ILHAMI COLAK( Gazi University),	
09:20-09:40	ID: 55 High Frequency Resonant SEPIC Converter with Small Turn-On Current Noises SATOSHI IKEDA*( Panasonic), Yudai Furukawa( Nagasaki University), Shunsuke Tsuruoka( Nagasaki University), Fujio Kurokawa( Nagasaki University),	
09:40-10:00	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),	
10:00-10:20	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),	
10:20-10:40	ID: 102 A novel optical Power compensation control strategy for LED power driver with different junction temperature Weiming Lin*( Fuzhou University),	
10:40-11:00	<b>COFFEE BREAK</b>	
<b>TRACK 1</b>		
<b>SESSION CHAIR:</b>		
11:00-11:20	ID: 353 MATLAB/GUI Based Wind Turbine Generator Types on Smart Grid Systems Melike Ayaz*( Gazi University),	
11:20-11:40	ID: 156 Meeting Frequency Response Requirements with Uncertain System Inertia - a UK perspective Dani Strickland*( Aston University),	
11:40-12:00	ID: 330 Determining the Most Appropriate Spinning Reserve Depending on Demand Mehmet Rida TUR*( MARDİN ARTUKLU ÜNİVERSİTESİ), Ali Erduman( Hakkari University), Abdulfetah Shobole( YILDIZ TEKNİK UNIVERSİTESİ), Mohammed Wadi( YILDIZ TEKNİK UNIVERSİTESİ),	
12:00-12:20	ID: 287 Power Maximisation Control for PMSG Based Wind Energy Conversion System Mohamed Kaouane*( USTHB), Akkila Boukhefifa( USTHB), Ahmed Cheriti( "Universit du Québec Trois-Rivières),	
12:40-14:00	<b>LUNCH BREAK</b>	
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<b>SESSION CHAIR:</b>		
14:20-14:40	ID: 340 UPPER KELKIT RIVER BASIN MANAGEMENT Kerim Mehmet Murat Tun*( Istanbul Bilgi University), Yeliz Ekinci( Istanbul Bilgi Üniversitesi),	
14:40-15:00	ID: 82 Averaged Model of Modular Multilevel Converter in Rotating DQ frame ashok nampally*( University of Aberdeen), Yashwant Sinha( Robert Gordon University),	
15:00-15:20	ID: 207 Modular Multilevel Converter Modulation Using Fundamental Switching Selective Harmonic Elimination Method ashok nampally*( University of Aberdeen), Yashwant Sinha( Robert Gordon University),	
15:20-15:40	ID: 258 Linearized DQ Averaged Model of Modular Multilevel Converter ashok nampally*( University of Aberdeen), Yashwant Sinha( Robert Gordon University),	
15:40-16:00	ID: 303 Adaptive Sliding Mode Direct Power Control of a Doubly Fed Induction Generator Emad Shehata*( Faculty of engineering- Minia University),	
16:00-16:20	<b>COFFEE BREAK</b>	
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<b>SESSION CHAIR:</b>		
16:20-16:40	ID: 292 Transient Power Characteristics of Direct-Driven Permanent Magnet Wind Power Grid-connected System Jianlan Sheng*( South China University of Technology),	
16:40-17:00	ID: 15 Supervisory Control for Sectorized Distributed Generation During Load Shedding in Lebanon's Power Grid Pamela Horkos*( University of Balamand), Maged B. Najjar( University of Balamand), Abdulmenhem Alameddine( University of Balamand),	
17:00-17:20	ID: 17 Analysis, Design and Real-Time Implementation of Shunt Active Power Filter for Power Quality Improvement Based on Predictive Direct Power Control Samir Moulahoum*( University of M d a), Oualid Aissa( LREA), Badreddine Babes( university of setif), Nadir Kabache( LREA), ILHAMI COLAK( Gazi University),	
17:20-17:40	ID: 42 Sag-Tension Calculation Program for Power Substations Jorge Quintana*( Electrical Research Institute), Victor Garza( Electrical Research Institute),	
17:40-18:00	ID: 54 Fault Diagnosis of Photovoltaic Modules Using AC Impedance Spectroscopy 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.),	

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09:00-09:20	ID: 8 An Economic Analysis of a Geothermal Drilling Operation İbrahim Ermiş* ( General Directorate of Mineral Research and Exploration),	
09:20-09:40	ID: 10 Alternative Renewable Energy Producing Systems by Utilizing Piezoelectric Transducers Ali Ekber Ozdemir( Ordu University), Sibel Akkaya Oy*( Ordu University),	
09:40-10:00	ID: 11 Usage of Piezoelectric Material and Generating Electricity Sibel Akkaya Oy*( Ordu University), Ali Ekber Ozdemir( Ordu University),	
10:00-10:20	ID: 53 Comparison of Qblade and CFD Results for Small-Scaled Horizontal Axis Wind Turbine Analysis EMRE KOC*( Baskent University), ONUR GUNEL( Yildirim Beyazit University), Tahir Yavuz( Baskent University),	
10:20-10:40	ID: 76 Simulated Thermal Response Test for Ground Heat Storage Hafiz Haq*( University of Vaasa),	
10:40-11:00	<b>COFFEE BREAK</b>	
<b>TRACK 1</b>		
<b>SESSION CHAIR:</b>		
11:00-11:20	ID: 300 Influence of TCSC Devices on Congestion Management in a Deregulated Power System Using Evolutionary Programming Technique Raja Somashekar*( Annamalai University),	
11:20-11:40	ID: 301 Influence of TCSC Devices on Congestion Management in a Deregulated Power System Using Evolutionary Programming Technique Raja Somashekar*( Annamalai University),	
11:40-12:00	ID: 282 A Signal Reforming Algorithm Based Three-Phase PLL Under Unbalanced Grid Conditions 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),	
12:00-12:20	ID: 271 Decision-Support Model for Battery Energy Storage System Inclusion in Grid-Connected PV Systems for Medium Voltage Applications nirsine kebir*( Mohammedia School of Engineers), Mohamed Maaroufi( Mohammedia School of Engineers),	
12:40-14:00	<b>LUNCH BREAK</b>	
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14:20-14:40	ID: 230 Analysis and Experimental Investigation for Grid-Connected 10 kW Solar PV System in Distribution Networks 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),	
14:40-15:00	ID: 297 A Modified Module Integrated - Interleaved Boost Converter for Standalone Photovoltaic (PV) Applications sridhar r*( srm), Somashree pathy( SRM), Dr.C SUBRAMANI( SRM UNIVERSITY), NIKITA HARI( CAMBRIDGE), Dr.S.S DASH( SRM UNIVERSITY),	
15:00-15:20	ID: 293 INTEGRATION OF RENEWABLE ENERGY RESOURCES IN OFF GRID SYSTEM USING THREE PORT ZETA CONVERTER ILAMBIRAI R.C.( SRM UNIVERSITY), CHELLAMAL N( SRM UNIVERSITY), Dr.S.S DASH*( SRM UNIVERSITY),	
15:20-15:40	ID: 229 Implementation of an Adaptive Control Strategy for Solar Photo Voltaic Generators in Microgrids with MPPT and Energy Storage Rajesh K.S.*( SRM UNIVERSITY), Dr.S.S DASH( SRM UNIVERSITY), Ramazan Bayindir( Gazi University), sridhar r( srm), Ragam Rajagopal( VIT),	
15:40-16:00	ID: 276 Modeling and Simulation of a Static VAR Compensator based on FC-TCR Ali KOSE( Gazi University), Erdal Irmak*( Gazi University),	
16:00-16:20	<b>COFFEE BREAK</b>	
<b>TRACK 5</b>		
<b>SESSION CHAIR:</b>		
16:20-16:40	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), Katsuhiko ICHIYANAGI( Aichi Institute of Technology), Masayuki YODA( Aichi Institute of Technology), Keiichi HIROSE( NTT Facilities),	
16:40-17:00	ID: 200 Electrical Vehicle To Grid Integration And Dynamic Response Capability mustafa deminol*( Ministry of Energy and Natural Resources),	
17:00-17:20	ID: 325 Cluster Based Approach For Mining Patterns To Predict Wind Speed Arif Wani*( University of Kashmir),	
17:20-17:40	ID: 342 Measuring Rain Energy with the Employment of "Arduino" 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),	
17:40-18:00	ID: 333 Implementation of Unit Commitment Algorithm: A Comprehensive Droop Control Technique to Retain Microgrid Stability Halil bulbul*( Gazi University), Nazmus Sakib( Khulna University of Engineering & Technology), Zakir Hossain( Khulna University of Engineering ), Eklas Hossain( Oregon Tech), RAMAZAN BAYINDIR( GAZ UNIVERSITY),	

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- ID: 196 Control Method for Flyback based submodule Integrated Converter with Differential power Processing Structure  
Guanying Chu( XJTLU), Huiqing Wen\*( XJTLU), Yihua Hu( Liverpool Univeristy),
- ID: 212 Application of Rural Photovoltaic Water Pumping System Using Immersed Pump and DC Motor  
JAMEL CHAKCHAK\*( Ege University), Numan S. CETIN( Ege University),
- ID: 213 MATLAB Simulink modeling of Photovoltaic Cells for understanding shadow effect  
Masud Rana Rashel\*( University Of Evora),
- ID: 243 Potential of forest biomass for energy production in Pinus brutia Ten. plantations  
Neşat Erkan\*( SAFRI), Ali Cem Aydin( SAFRI),
- ID: 291 Kinetic, Heat and Mass Transfer Analysis of Biomass Particle and Bed in Downdraft Bed Gasifier  
Gbeminiyi Sobamowo\*( University of Lagos),
- ID: 298 Photovoltaic Cell Electrical Heating System for Removing Snow on Panel Including Verification  
Agnes Weiss( BG+BRG Leoben ), Helmut Weiss\*( Montanuniversitaet Leoben ),
- ID: 305 Technical and Economic Prospects for the Site Implementation of a Gravitational Water Vortex Power Plant In Nepal  
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 ),
- ID: 307 High Safety Photovoltaic Insular Power Supply System Employing Re-Used Lithium-Ion Cells  
Agnes Weiss\*( BG+BRG Leoben ), Herbert Ziegerhofer ( Montanuniversitaet Leoben),
- ID: 324 Effect of wavelength on the performance of wavy finned absorber solar air heater  
ABHISHEK PRIYAM\*( NIT JAMSHEDPUR), Prabha chand( N.I.T Jamshedpur),
- ID: 337 Absorption Enhancement in the Metamaterials Employing Surface Plasmon Polariton(SPP)  
Richard Kyung\*( CRG),
- ID: 341 Electrochemical impedance spectroscopy characterization of Cobalt oxide decorated silicon nanowires  
MADJID IFIRES\*( CENTRE DE RECHERCHE EN TECHNOLOGIE DES SEMI-CONDUCTEURS POUR L'ENERGETIQUE),  
TOUFIK HADJERSI( CENTRE DE RECHERCHE EN TECHNOLOGIE DES SEMI-CONDUCTEURS POUR L'ENERGETIQUE),  
REDOUANE CHEGROOUNE( Université des Sciences et de la Technologie Houari Boumediene), SABRINA LAMRANI( CENTRE DE RECHERCHE EN TECHNOLOGIE DES SEMI-CONDUCTEURS POUR L'ENERGETIQUE), BRAHIM IDIR( CRTI),
- ID: 345 Study design of photovoltaic pumping system for the water supply of an agricultural diversity  
Yassaad Abdelbaki\*( abdelbaki),
- ID: 369 Enhanced rate capability and cycle performance of titanium substituted P2-type Na<sub>0.67</sub>Fe<sub>0.5</sub>Mn<sub>0.5</sub>O<sub>2</sub> as a cathode for sodium-ion batteries  
Jun-gi PARK\*( Dankook University),
- ID: 370 Preparation of Lithium-Doped Na<sub>2</sub>Ti<sub>3</sub>O<sub>7</sub> by solid-state method and its electrochemical performances  
Da Ye YOON\*( Dankook University),
- ID: 146 Designing a piezoelectric energy harvester using clicking mechanism  
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),
- ID: 187 Microwave pyrolysis and roasting depending on dielectric qualities of Coal Types and Iron Minerals regard ing Exergy  
Yildirim Tosun\*( Şırnak University),
- ID: 304 A Green Energy Framework for Software Development Companies  
Arunasalam Sambhanthan\*( Curtin University),
- ID: 188 Cost Modelling for Gasification of Turkish Lignite, Şırnak Asphaltite and Agricultural Biowaste in Fluidized Bed for Power Generation  
Yildirim Tosun\*( Şırnak University),
- ID: 206 Interfacing of Regulator And Rectifier Unit With Solar Charge Controller For Optimal Utilization of Solar Power On Railway Coaches  
Dr Amruth Thelkar\*( JIT), Balaji Veerasamy( Jimma Institute of Technology), Tefera Mekonnen( JIT), Mohammed Ahmmed( JIT), Abraham Alem( JIT), Aberra Jote( JIT),
- ID: 210 Contribution on the Heat Transfer Analysis of solar Air Collector : Experimental and Theoretical investigation  
Abdelmoumene Hakim Benmachiche\*( Department of Mechanics), Fares Aissaoui( Department of Mechanics),
- ID: 260 Hybrid PV-UPS System with Multilevel Structure of Power Converters and Reliability Improvement  
V. Fernao Pires\*( ESTSetubal/IPS), Carlos Vieira( ESTSetubal/IPS),
- ID: 261 Bidirectional Boost/Buck Quadratic Converter for Distributed Generation Systems with Electrochemical Storage Systems  
Daniel Foito\*( ESTSetubal - IPS), V. Fernao Pires( ESTSetubal/IPS), Armando Cordeiro( ISEL - IPL),
- ID: 328 Maximum Power Point Tracker with Solar Prioritizer in Photovoltaic Application  
Subash Gautam\*( Acme Engineering College), Debendra Bahadur Raut( Acme Engineering College), Rabin Dhakal( Tribhuvan University), Prabesh Neupane ( Central Campus), Dhan Prasad Ghale ( Tribhuvan University),
- ID: 329 Management, Optimal Sizing and Technical-Economic Analysis of Batteries for Constant Production in Photovoltaic Systems  
Harun TURKER\*( Haute École d'Ingénierie et d'Architecture de Fribourg / TH Smart Grid Expertise & Consulting),
- ID: 4 A Review of Community Electrical Energy Systems  
Dani Strickland\*( Aston University),
- 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),