

SMART2015 Final Program

Tutorials

Venue: Mövenpick Hotel & Resort Al Bida'a Kuwait

Sunday, November 22, 2015	
9H00-10H30	<i>Introduction of Wind Power Technology (Part 1)</i> Zhe Chen Aalborg University, Denmark
10H30-11H00	Coffee break
11H00-12H30	<i>Introduction of Wind Power Technology (Part 2)</i> Zhe Chen Aalborg University, Denmark
12H30-14H00	Lunch
14H00-15H30	<i>Real-Time Simulation of Renewable Energy Systems, Motor Drives and Power Systems (Part 1)</i> Mr. Simon Abourida OPAL-RT Technologies, Canada
15H30-16H00	Coffee break
16H00-17H30	<i>Real-Time Simulation of Renewable Energy Systems, Motor Drives and Power Systems (Part 2)</i> Mr. Simon Abourida OPAL-RT Technologies, Canada
18H00	Welcome reception

Conference

Venue: Mövenpick Hotel & Resort Al Bida'a Kuwait

Monday, November 23, 2015	
8H00	Registration
9H00-10H00 El-Bidaa Ball Room	Opening
10H00-10H30	Coffee break
10H30-11H30 El-Bidaa Ball Room	PS1: Plenary Session 1 Chairs: Mohamed Gaith (Kuwait), Grzegorz Ombach (Germany), and Muhammad R. Hajj (USA) <i>On Vibration-Based Energy Harvesters</i> Ali Nayfeh VirginiaTech, USA, and The University of Jordan, Jordan
11H30-12H30 El-Bidaa Ball Room	PS2: Plenary Session 2 Chairs: Zi Q. Zhu (UK), Jacek Junak (Germany), and Michael Schier (Germany) <i>Superconducting Maglev - Development and Commercial Service Plan in Japan</i> Hiroyuki Ohsaki The University of Tokyo, Japan
12H30-14H00	Lunch
14H00-16H00 El-Bidaa Ball Room	LS1: Lecture Session on Design of Sustainable Mobility Actuators (Part 1) Chairs: Hiroyuki Ohsaki (Japan) and Zi Q. Zhu (UK) SMART15-57: Design and Characterization of a Cost-Effective and High-Power Density Brushless Rotor Supply for Mobile Synchronous Generators Julian Veitengruber German Aerospace Center, Germany SMART15-76: Highly Integrated Electric Drives for Automotive Application Michael Schier and Frank Rinderknecht German Aerospace Center, Germany N. Sathesh Kumar Nanyang Technological University, Singapore SMART15-122: A Hybrid Experimental Drive Concept of Permanent Magnet Linear Direct Actuator Servoed to a Ship's Hydraulic Rudder D. Zito, C. Bruzzese, A. Raimo, and E. Santini University of Rome - Sapienza, Italy A. Tessarolo University of Trieste, Italy

	<p>SMART15-132: <i>Linear Motion Contactless Power Supply-A Comparative Study on Topologies</i> Saeed Hasanzadeh Qom University of Technology, Iran Sadegh Vaez-Zadeh University of Tehran, Iran Ahmad Askarian University of Texas at Dallas Richardson, USA</p> <p>SMART15-167: <i>Characterization of the No-load Operation of Quasi-Halbach PM Excited T-LSMs</i> Mohamed Wael Zouaghi, Imen Abdennadher, and Ahmed Masmoudi University of Sfax, Tunisia</p> <p>SMART15-185: <i>On the Stator Magnetic Circuit Design of Tubular-Linear PM Synchronous Machines: A Comparison Between Three Topologies</i> Amal Souissi, Imen Abdennadher, and Ahmed Masmoudi University of Sfax, Tunisia</p>
<p>14H00-16H00 El-Bidaa 5 Room</p>	<p>LS2: Lecture Session on Grid and Microgrid Chairs: Zhe Chen (Denmark) and Tarek Selmi (Kuwait)</p> <p>SMART15-40: <i>STATCOM-Based 48-Pulses Three Level GTO Dedicated to VAR Compensation and Power Quality Improvement</i> Abderrahmen Abdellaoui, Abderrazak Yangui, Amara Saidi and Hsan Hadj Abdallah University of Sfax, Tunisia</p> <p>SMART15-54: <i>The Contribution Of the Health Asset on Extend of the Life Cycle and Optimize the Cost of the Substation Equipment</i> Khalid M. Al-Zarfi and Abdulaziz Marzouq Al-Furaidi National Grid SA, KSA</p> <p>SMART15-91: <i>Power Factor Improvement in WECS using Cascade PI Control of Passive Damping LCL-Filter</i> Faris Hamoud, Mamadou Lamine Doumbia, and Ahmed Chériti Université du Québec à Trois-Rivières, Canada</p> <p>SMART15-117: <i>Real-Time Simulation of Distributed Energy Systems and Microgrids</i> Amine Yamane and Simon Abourida OPAL-RT Technologies, Inc, Canada</p> <p>SMART15-118: <i>Wind Farm Active Power Dispatch for Output Power Maximizing Based on a Wind Turbine Control Strategy for Load Minimizing</i> Baohua Zhang, Weihao Hu, Peng Hou, Mohsen Soltani, and Zhe Chen Aalborg University, Denmark</p>

	<p>SMART15-128: <i>Research of Smart Grid Cyber Architecture and Standards Deployment with High Adaptability for Security Monitoring</i> Rui Hu, Weihao Hu, and Zhe Chen Aalborg University, Denmark</p> <p>SMART15-161: <i>Determination of the Optimal Location and Sizing of DGs in Radial Distribution Network Using Modified PSO and ABC Algorithms</i> Mohsen Khorasany Shiraz University, Iran Habib Aalami Imam Hussain University, Iran</p>
<p>16H00-16H30</p>	<p>Coffee break</p>
<p>16H30-19H10 El-Bidaa Ball Room</p>	<p>LS3: Special Lecture Session on Actuators and Systems for eMobility Chairs: Jacek Junak (Germany) and Grzegorz Ombach (Germany)</p> <p>SMART15-172: <i>Development of Vehicle Drivetrain and its Components – Solutions for CO2 Reduction</i> J. Junak Brose Fahrzeugteile GmbH & Co. KG, Germany</p> <p>SMART15-173: <i>Gearshift Control with Torque-Fill for a 4-Wheel-Drive Fully Electric Vehicle</i> S. De Pinto, A. Sorniotti, and P. Gruber, University of Surrey, UK P. Camocardi Brose Fahrzeugteile GmbH & Co. KG, Würzburg, Germany P. Perlo Interactive Fully Electric Vehicles (IFEVS), Italy F. Viotto Oerlikon Graziano SpA, Italy</p> <p>SMART15-174: <i>Driving Range Evaluation of a Multi-Phase Inverter for Low Voltage High Power Electric Vehicles Chair of Electrical Drives and Actuator</i> A. Patzak, F. Bachheibl, A. Baumgardt, and D. Gerling Universitaet der Bundeswehr Muenchen, Germany G. Dajaku and O. Moros FEAAM GmbH, Germany</p> <p>SMART15-175: <i>Universal Base Coil Solution for Interoperable System for Stationary Wireless EV Charging</i> G. Ombach, D. Kurschner, and S. Mathar QUALCOMM CDMA Technologies GmbH, Germany</p>

	<p>SMART15-176: <i>3D-FEA Based Comparison of the Features of Two Hybrid-Excited Claw Pole Alternator</i> A. Ibala and A. Masmoudi University of Sfax, Tunisia</p> <p>SMART15-56: <i>3D MEC Modeling of a Hybrid-Excited Claw Pole Alternator Incorporating the Rotor Motion</i> D. Elloumi, A. Ibala, R. Rebhi, and A. Masmoudi University of Sfax, Tunisia</p> <p>SMART15-177: <i>Analysis of Actuators for Large Armature Displacement</i> M. Stepien and B. Grzesik Silesian University of Technology, Poland Z. Mikno Welding Institute, Poland</p> <p>SMART15-178: <i>Optimising the Operation of Servomechanical Force Systems Used in the Joining of Thin-walled Metal Elements in Automotive Industry</i> Z. Mikno Welding Institute, Poland M. Stepien and B. Grzesik Silesian University of Technology, Poland</p>
<p>16H30-19H10 El-Bidaa 5 Room</p>	<p>LS4: Lecture Session on Power Converters for Sustainable Energy Systems Chairs: Zhe Chen (Denmark) and Mohamed H. Shwehdi (KSA)</p> <p>SMART15-39: <i>An Efficient Asymmetric Cascaded H-Bridge Inverter for Photovoltaic Systems</i> Zaouche Khelil and Talha Abdelaziz University of Sciences and Technology Houari Boumediene, Algeria El Madjid Berkouk University of Algiers, Algeria</p> <p>SMART15-77: <i>A DC Link Switch-Based Common Mode Voltage Reduction Scheme in PWM Inverter Drives</i> Jian-Xin Shen, Wei Sun, and Xiang-Qian Huang Zhejiang University, China</p> <p>SMART15-93: <i>The Research on the High-power Offshore Wind Power Grid Inverter</i> Yi Zhao and Yongchun Liang Hebei University of Science and Technology, China</p>

SMART15-101: *dSPACE based Adaptive Fuzzy Controller of DC Bus Voltage for Three-Phase Power Filter*

Mohamed Toufik Benchouia, Tidjani Mahni, Amar Golea, and Kamel Srairi

University of Biskra, Algeria

Mohamed El-Hachemi Benbouzid

University of Brest, France

SMART15-139: *Analysis of Linear and Nonlinear Control of a Three-Phase/Level PWM DC-AC Neutral Point Clamped Converter*

Fatma Ezzahra Lahouar and Jaleleddine Ben Hadj Slama

University of Sousse, Tunisia

Mahmoud Hamouda

Canada Research Chair in Electric Energy Conversion and Power Electronics, Canada

SMART15-144: *Comparative Study Between the Improved Schemes of MAF-Based Robust PLLs*

Mohamed Mellouli and Jaleleddine Ben Hadj Slama

University of Sousse, Tunisia

Mahmoud Hamouda and Kamel Al-Haddad

Canada Research Chair in Electric Energy Conversion and Power Electronics Canada

SMART15-171: *60° Bus-Clamping Based DTC Strategy Dedicated to Three-Level Inverter Fed Induction Motor Drives*

Badii Bouzidi, Tarek Gallah, and Ahmed Masmoudi

University of Sfax, Tunisia

SMART15-186: *A Novel Single Phase Transformerless Inverter Topology for PV Applications*

Tarek Selmi and El-Kanj Baitie

The Australian College of Kuwait, Kuwait

Ahmed Masmoudi

University of Sfax, Tunisia

Tuesday, November 24, 2015

9H00-10H00 El-Bidaa Ball Room	PS3: Plenary Session 3 Chairs: Jian-Xin Shen (China), Grzegorz Ombach (Germany), Frank Rinderknecht (Germany) <i>Novel Electrical Machines with/without NdFeB Magnets for Electric Vehicles and Wind Power Generation</i> Zi Q. Zhu The University of Sheffield, UK
10H00-10H30	Coffee break
10H30-11H30 El-Bidaa Ball Room	PS4: Plenary Session 4 Chairs: Jacek Junak (Germany), Zi Q. Zhu (UK), and Johannes J.H. Paulides (The Netherlands) <i>Current Status on Stationary, Semi Dynamic and Dynamic Wireless Electric Vehicle Charging</i> Grzegorz Ombach QUALCOMM CDMA Technologies GmbH, Germany
11H30-12H50 El-Bidaa Ball Room	LS5: Lecture Session on Diagnosis of Sustainable Mobility Actuators Chairs: Jian-Xin Shen (China) and Imen Abdennadher (Tunisia) SMART15-42: A Robust Approach to Remediate Failures of Hall Effect Sensors in BLDC Motor Tarek Selmi, Hassan Salti, Hania Baitie, Majdi Al-Omari The Australian College of Kuwait, Kuwait SMART15-83: An Algebraic Approach to Model the Current Supply in a Faulty 5-Phase PM BLDC Drive. Part I –Model Setup and its Application to the Case of One Open Phase Fault Syamnaresh Garlapati and Giuseppe Buja University of Padova, Italy and Alberto Tassarolo University of Trieste, Italy SMART15-84: An Algebraic Approach to Model the Current Supply in a Faulty 5-Phase PM BLDC Drive. Part II –Application to the case of Two and Three Open Phase Faults Syamnaresh Garlapati and Giuseppe Buja University of Padova, Italy and Alberto Tassarolo University of Trieste, Italy SMART15-105: Current Signal Denoising of PMSM by Matching Pursuits Algorithm with Under Complete Dictionary Rui Chao Tao, Jie Ma, and Hui Zhao Harbin Institute of Technology, China

<p>11H30-13H10 El-Bidaa 5 Room</p>	<p>LS6: Lecture Session on Green Building and Civil Systems Chairs: Martin Jaeger (Kuwait) and Sami F. Masri (USA)</p> <p>SMART15-72: <i>Environmental Impact of Developing Large Buildings Close to Residential Environments</i> Meruyert Zhunussova and Desmond Adair Nazarbayev University, Kazakhstan Jaeger Martin The Australian College of Kuwait, Kuwait</p> <p>SMART15-96: <i>Increasing the Produced Power of Building Mounted Wind Turbines by Optimization of Roof Geometry and Utilization of Solar Panels</i> M. Tahani, N. Babayan, A. Pouyaei University of Tehran, Iran M. Mirhosseini Isfahan University of Technology, Iran A. Sedaghat The Australian College of Kuwait, Kuwait</p> <p>SMART15-152: <i>Experimental Study on Productivity of Different Designs of Solar Stills</i> Omar Badran and Hamed Al Ahmadi Taibah University, KSA Mohammed Matouq and Ahmad Awad Al Balqa` Applied University, Jordan</p> <p>SMART15-164: <i>A Novel Self-Powered Approach for Structural Health Monitoring</i> Amir H. Alavi, Hassene Hasni, and Nizar Lajnef Michigan State University, USA Sami Masri University of Southern California, USA</p> <p>SMART15-166: <i>Under Floor Heating with Solar Collectors in Jordan</i> Faisal Al Ghathian and Tareq Al Azab Al-Balqa Applied University Amman, Jordan</p>
<p>12H50-14H30</p>	<p>Lunch</p>

14H30-16H30
El-Bidaa Ball Room

LS8: Lecture Session on Design of Sustainable Mobility Actuators (Part 2)
Chairs: Grzegorz Ombach (Germany) and Alberto Tassarolo (Italy)

SMART15-51: *On the Effect of the Rotor Polarity on the Performance of Fractional Slot SPM Machines*

Imen Abdennadher and Ahmed Masmoudi

University of Sfax, Tunisia

Mose Castiello and Nicola Bianchi

University of Padova, Italy

SMART15-78: *Rotor Notching for Electromagnetic Noise Reduction of Induction Motors*

Gui-Yu Zhou and Jian-Xin Shen

Zhejiang University, China

SMART15-103: *A Partitioned Stator Permanent Magnet Machine for HEV/EV Applications*

Z.Q. Zhu and H. Hua

University of Sheffield, UK

SMART15-108: *Evaluation of Low-Cost High-Performance Synchronous Motors for Ventilation Application*

Jian-Xin Shen, Shun Cai, Hang Shao, and He Hao

Zhejiang University, China

SMART15-110: *Analysis of Iron Loss in Interlocked Lamination Core*

Jian-Xin Shen, Gui-Yu Zhou, Sheng-Long Jin, and He Hao

Zhejiang University, China

SMART15-113: *Study of Magnet Fatigue in Hybrid PM Memory Motors*

Yongtao Tan, Jian-Xin Shen, Meng-Jia Jin, and He Hao

Zhejiang University, China

14H30-16H30
El-Bidaa 5 Room

LS9: Lecture Session on Sustainable Development National Programs
Chairs: Mohammed Abdul Niby (Kuwait) and Karri Rantasila (Finland)

SMART15-52: *Saudi Electricity Company (SEC) Outstanding Procedure for Enhancing Assets Performance of Technical Procurement and Testing for Long Rod Insulator; Case Study*

Abdulaziz M. Al-Furaidi

National Grid SA, KSA

M. H. Shwehdi

King Faisal University, KSA

	<p>SMART15-59: <i>A Feasibility Study of Using Waste Cooking Oil as a Form of Energy in Kuwait</i> Naser Ali and Mohamed Sebzali Kuwait Institute for Scientific Research, Kuwait</p> <p>Altaf Safar and Fadi Al-Khatib The Australian College of Kuwait, Kuwait</p> <p>SMART15-61: <i>Quality of tap drinking water in Kuwait: Physicochemical characteristics</i> Ahmed I. Gh. Assad The Australian College of Kuwait, Kuwait</p> <p>SMART15-63: <i>A Novel System for Prediction of PV Performance in the State of Qatar</i> Noor Alam Chowdhury, Antonio JR. San Pedro Gonzales, Farid Touati, and M. A. Al-Hitmi Qatar University, Qatar</p> <p>SMART15-75: <i>Quebec: a Source of More than 5000MW of Clean Sustainable Energy Using Salinity Gradient Power Technology</i> Youcef Berrouche, Ahmed G. Abo-khalil, and Abdullah Almuhaissen Majmaah University, KSA</p> <p>SMART15-159: <i>The Impact of Mobility as a Service Concept to Land Use in Finnish Context</i> Karri Rantasila VTT Technical Research Centre of Finland Ltd., FINLAND</p>
<p>14H30-16H30 El-Bidaa 6 Room</p>	<p>LS7: Lecture Session on Fuels and Biofuels Chairs: Biltayib M. Biltayib (Kuwait) and Jehad Yamin (Jordan)</p> <p>SMART15-46 <i>Single Cell Oil of Oleaginous Fungi From Lebanese Habitats as a Potential Feed Stock for Biodiesel</i> M. El-haj, Z. Olama, and H. Holail Beirut Arab University, Lebanon</p> <p>SMART15-74: <i>Relative Performance of a Direct Ignition Diesel Engine using Biodiesel as Fuel under Magnetic Fuel Conditioner</i> Seham Al-Fagaan, Shaikha Al-Ajmi, and Jehad Yamin The University of Jordan, Jordan</p> <p>SMART15-145: <i>A Case Study of challenges We Have in Pore Pressure Prediction Techniques for a Carbonate Reservoir</i> Masoud Rashidi The Australian College of Kuwait, Kuwait</p> <p>Mahsa Marhamati Azad University, Iran</p> <p>Abhilash M Bharadwaj University Teknologi Petronas, Malaysia</p>

	<p>SMART15-163: <i>Validation of Directional Drilling Well Design Trajectory with a Case Study in Kuwait</i> Biltayib M. Biltayib, Sadeq Damrah, Bushrah Al-Fakeh, and Ashwaq Al-Kanderi The Australian College of Kuwait, Kuwait</p> <p>SMART15-165: <i>Relative Permeability Measurement Using Different Core Samples from Burgan Field</i> Mohamed Omar, Dhoha Al-Foderie, Riham Al-Sayegh The Australian College of Kuwait, Kuwait</p> <p>SMART15-184: <i>Chemical Water Shut-OFF in Oil Reservoirs for Offshore Field</i> Abdullah M. Al-Dhafeeri Al-Khafji Joint Operations, KSA</p>
16H30-17H00	Coffee break
17H00-19H20 El-Bidaa Ball Room	<p>LS10: Lecture Special Session on Design of Sustainable Mobility Actuators Chairs: Johannes J.H. Paulides (The Netherlands) and Zi Q. Zhu (UK)</p> <p>SMART15-179: <i>Thermal Modeling of Tubular Linear Machines using a Hybrid Analytical Method</i> S. Ouagued, M.A. Ben Hamida, Y. Amara, G. Barakat University of Lehavre, France J.J.H. Paulides Eindhoven University of Technology, The Netherlands</p> <p>SMART15-180: <i>Analytical 3-D Design of a Transverse Flux Machine with High Power Factor</i> M.F.J. Kremers, J.J.H. Paulides and E.A. Lomonova Eindhoven University of Technology, The Netherlands</p> <p>SMART15-121: <i>Parametric Design Optimization of Axial Field Partitioned Stator Switched Flux PM Machine</i> Mohammed F. Khatab, Ahlam L Shuraiji, and Z.Q. Zhu University of Sheffield, UK</p> <p>SMART15-181: <i>Electrical Machines: Turn-to-Turn Capacitance in Formed Windings with Rectangular Cross-Section Wire</i> N. Djukic and J.J.H. Paulides Eindhoven University of Technology, The Netherlands L. Encica Advanced Electromagnetics, The Netherlands</p> <p>SMART15-182: <i>Machine and Actuator Design: Modeling 3-D Fields and Forces using the Analytical Surface Charge Expressions</i> J.R.M. van Dam, J.J.H. Paulides, and E.A. Lomonova Eindhoven University of Technology, The Netherlands</p>

	<p>SMART15-89: <i>An Improved Analytical Expression for Computing the Leakage Inductance of a Circular Bar in a Semi-Closed Slot</i> Mauro Bortolozzi and Alberto Tassarolo University of Trieste, Italy Lorenzo Branz Sicor S.p.A., Italy Claudio Bruzzese University of Rome “La Sapienza”, Italy</p> <p>SMART15-90: <i>Improved Analytical Computation of Rotor Rectangular Slot Leakage Inductance in Squirrel-Cage Induction Motors</i> Mauro Bortolozzi and Alberto Tassarolo University of Trieste, Italy Lorenzo Branz Sicor S.p.A., Italy Claudio Bruzzese University of Rome “La Sapienza”, Rome</p>
<p>17H00-19H20 El-Bidaa 5 Room</p>	<p>LS11: Lecture Session on Sustainable Energy Storage Systems Chairs: Grzegorz Ombach (Germany) and Michael Schier (Germany)</p> <p>SMART15-49: <i>A Simplified 2D Thermal Management Model for Lithium/Sulphur Cells</i> Zhumabay Bakenov, Desmond Adair, and Kairat Ismailov Nazarbayev University, Kazakhstan Yerzhan Massalin Institute of Batteries, Kazakhstan</p> <p>SMART15-80: <i>Influences of Different Heating Strategies on the Energy Demand of an Airfield Luggage Tug</i> Markus Hubner, Michael Schmitt, and Michael Schier German Aerospace Center, Germany</p> <p>SMART15-106: <i>Thermal, Power and Packaging Design of an HT-PEM Fuel Cell Application for Climatization and Range Extension in Future Vehicle Concepts</i> Franz Philipps German Aerospace Center, Germany</p> <p>SMART15-135: <i>Vehicle Concept Design by Using a Fuel Cell as Range Extender</i> Michael Schmitt and Markus Hubner German Aerospace Center, Germany</p>

	<p>SMART15-138: <i>Useful Global Model for Charging/Discharging Plug-in Electrical Vehicles in a Parking Lot</i> Imad Mougharbel Lebanese University Beirut, Lebanon Semaan Georges Notre Dame University Louaize, Lebanon Maarouf Saad Ecole de Technologie Supérieure Montreal, Canada</p> <p>SMART15-142: <i>An Improved Parameterization Method for Li-ion Linear Static Equivalent Circuit Battery Models Based on Direct Current Resistance Measurement</i> Jorge Varela Barreras, Erik Schaltz, and Maciej Swierczynski, Aalborg University, Denmark Rui Esteves Araújo and Cláudio Pinto University of Porto, Portugal Ricardo de Castro German Aerospace Center, Germany Søren Juhl Andreasen Serenergy A/S, Denmark</p> <p>SMART15-143: <i>Fuse and Switch Box Design, Modeling and Characterization in Hardware-In-the-Loop Simulation Environment for Battery Management System Testing</i> Jorge Varela Barreras, Erik Schaltz, and Theodoros Kalogiannis Aalborg University, Denmark Christian Fleischer and Dirk Uwe Sauer RWTH Aachen University, Germany Andreas Christensen Lithium Balance A/S, Denmark</p>
<p>17H00-19H20 El-Bidaa 6 Room</p>	<p>LS12: Lecture Session on Sustainable Energy Systems Chairs: Arindam Banerjee (Australia) and Ahmad Sedaghat (Kuwait)</p> <p>SMART15-50: <i>Load Balancing System involving the Collection, Distribution and Usage of Energy using the Proposed Hydrogen Transmission Network as a Complement or Alternative to High Voltage Transmission</i> Arindam Banerjee HTN Research Pty Ltd, Australia Bani Kumar Banerjee Mahamilan Sangha, India</p> <p>SMART15-82: <i>Modeling and Simulation of a Wind Model Using a Spectral Representation Method</i> Ahmed Abrous and René Wamkeue University of Quebec in Abitibi-Témiscamingue, Canada El Madjid Berkouk University of Algiers, Algeria</p>

	<p>SMART15-94: <i>Computational Study on Design Parameters of a Solar Chimney</i> A. Sedaghat The Australian College of Kuwait, Kuwait M.T. Esfidani, S. Raveshi, M. Shahsavari Sharif University of Technology, Iran</p> <p>SMART15-95: <i>Vibrational Simulation of Offshore Floating Wind Turbine and its Directional Movement Control by Fuzzy Logic</i> M. Tahani, E. Ziaee, A. Hajinezhad, and P. Servati University of Tehran, Iran M. Mirhosseini Isfahan University of Technology, Iran A. Sedaghat The Australian College of Kuwait, Kuwait</p> <p>SMART15-147: <i>Multi Renewable Power Source System Based on Multi-Stage Fuzzy Technique</i> Mohammad Al Zubi, Ahmad Al Jaffreh, and Naeem Odat Tafila Technical University, Jordan</p> <p>SMART15-156: <i>Indoor Power Line Channel Characterization for Data Transfer and Frequency Response Measurements</i> Mini S. Thomas and Seema Arora Engineering Jamia Millia Islamia, India Vinay Kumar Chandna Jaipur Engineering College and Research Centre, India</p> <p>SMART15-157: <i>Parametric Representation and Modeling of Indoor Broadband Power Line Channel for Data Transmission</i> Mini S. Thomas and Seema Arora Engineering Jamia Millia Islamia, India Vinay Kumar Chandna Jaipur Engineering College and Research Centre, India</p>
<p>20H00</p>	<p>Conference official dinner</p>

Wednesday, November 25, 2015

9H00-10H00 El-Bidaa Ball Room	PS5: Plenary Session 5 Chairs: Zi Q. Zhu (UK), Ahmed Masmoudi (Tunisia), and Alberto Tessarolo (Italy) <i>Wind Power Development</i> Zhe Chen Aalborg University, Denmark
10H00-10H30	Coffee break
10H30-12H30 El-Bidaa Ball Room	IPS: Invited Papers Session Chairs: Ali Nayfeh (USA/Jordan), Mohamed Gaith (Kuwait), and Johannes J.H. Paulides (The Netherlands) <i>Energy Harvesting Technologies for Smart Systems</i> Muhammad R. Hajj Virginia Tech, United States of America <i>“Smart Cities” - An Overview of Data-Driven Approaches for Structural Health Monitoring and Condition Assessment of Infrastructure Systems</i> Sami F. Masri University of Southern California, USA <i>Dynamics of Shallow Arched Microstructures</i> Mohammad I. Younis King Abdullah University of Science and Technology, KSA
12H30-14H00	Lunch
14H00-16H00 El-Bidaa Ball Room	Closing and award remit ceremony