

PROGRAMME

MONDAY - JUNE 4, 2018

09:00-10:00	<p align="center">Opening Session Welcome to ENERGYCON 2018 Elias Kyriakides, General Chair-ENERGYCON 2018 IEEE Region 8 Margaretha Eriksson, IEEE Region 8 Director Women in Engineering Ana Cigarán Romero, Outreach Officer IEEE WIE R8 Committee</p>			
10:00-11:00	<p align="center">Keynote Speech I: The Crucial Role of Distribution System Operators for the Transition of Energy Systems Prof. Nikos Hatzigiorgiou Room: Panorama</p>			
11:00-11:30	<p align="center">Coffee Break</p>			
11:30- 12:30	<p align="center">Keynote Speech II: Resiliency in Flexible Electricity Grids Prof. Mladen Kezunovic Room: Panorama</p>			
12:30-14:00	<p align="center">Lunch</p>			
14:00-15:30	<p align="center">OS1 Information and communication technologies in power systems I</p>	<p align="center">OS2 Energy storage and renewables I</p>	<p align="center">OS3 Electrification of transportation sector</p>	<p align="center">SS1a Interplan: Integrated operation planning tools towards a pan-European network</p>
Room	<i>Panorama</i>	<i>Atrium A</i>	<i>Atrium B</i>	<i>Atrium C</i>
Session Chair	<i>Kai Sun</i>	<i>Jose Luis Martines Ramos</i>	<i>Hrvoje Pandzic</i>	<i>Venizelos Efthymiou</i>
	<p>119 Multi-Criteria HVAC Control Optimization Stelios Krinidis, Apostolos Tsolakis, Iraklis Katsolas, Dimosthenis Ioannidis, Dimitrios Tzovaras</p>	<p>120 A UPSO based Optimal BEVs Charging for Voltage Quality Improvement Georgios Christoforidis, Aggelos Bouhouras, Anastasios Tsiakalos, Emmanouil Emmanouil, Dimitrios Labridis, Paschalis Gkaidatzis</p>	<p>7 Lithium-ion Batteries: Experimental Research and Application to Battery Swapping Stations Vedran Bobanac, Hrvoje Pandzic</p>	<p>Introducing the INTERPLAN project Giorgio Graditi</p>
	<p>72 Using Reinforcement Learning for Optimizing Heat Pump Control in a Building Model in Modelica Thijs Peirelinck, Frederik Ruelens, Geert Deconinck</p>	<p>158 A Missing Data Treatment Method for Photovoltaic Installations Georgios Christoforidis, Ioannis Panapakidis, Aggelos Bouhouras</p>	<p>106 Thermal Evaluation of Railway Transformer Used in Autotransformer Feeding Systems Mingyu Han, James Hill, Peter Crossley, Zhongdong Wang</p>	<p>Develop the concept and methodology of the INTERPLAN project Marialaura Di Soma</p>

PROGRAMME

	<p>16 Rapid Automatic Thyristor type Excitation Controller Adjustment via Region of Required Quality Construction <i>Vladimir Shikhin, Anna Shikhina, George Chrysostomou</i></p>	<p>149 Financially Optimal Solar Power Sizing and Positioning in a Power Grid <i>Ozcel Cangul, Edoardo Patelli, Roberto Rocchetta, Murat Fahrioglu</i></p>	<p>113 Fast Charging Station with Battery Storage System for EV: Grid Services and Battery Degradation <i>Marc Petit, Lucas Richard</i></p>	<p>Develop the use case objectives and needs <i>Ata Khavari</i></p>
	<p>76 Comparing Neural Architectures for Demand Response Through Model-Free Reinforcement Learning for Heat Pump Control <i>Christophe Patyn, Frederik Ruelens, Geert Deconinck</i></p>	<p>18 Stability and Eigenvalue Sensitivity Analysis of a BESS Model in a Microgrid <i>Nauman Beg, Ahmad Rahmoun</i></p>	<p>49 A Fuel Cell Vehicle Thermal System Model <i>Philipp Rehlaender, Philipp Kemper, Andreas Schwung, Ulf Witkowski</i></p>	<p>Discussion with Stakeholders <i>Venizelos Efthymiou</i></p>
15:30-16:00	Coffee Break			
16:00-17:30	<p>OS4 Active distribution networks I</p>	<p>OS5 Microgrids operation</p>	<p>OS6 Modern transmission systems I</p>	<p>SS1b <i>Special Session 1: Interplan: Integrated operation planning tools towards a pan-European network</i></p>
Room	<i>Panorama</i>	<i>Atrium A</i>	<i>Atrium B</i>	<i>Atrium C</i>
Session Chair	<i>Gustavo Valverde</i>	<i>Mihaela Albu</i>	<i>Aggelos Bouhouras</i>	<i>Helfried Burner</i>
	<p>19 Improved Modelling of Electric Loads for Enabling Demand Response by Applying Physical and Data-Driven Models Project RESPONSE <i>Pekka Koponen, Seppo Hänninen, Antti Mutanen, Juha Koskela, Antti Rautiainen, Pertti Järventausta, Harri Niska, Mikko Kolehmainen, Hannu Koivisto</i></p>	<p>134 European LV Microgrid Benchmark Network: Development and Frequency Response Analysis <i>Melike Selcen Ayaz, Vladimir Terzija, Rasoul Azizipanah-Abarghoee</i></p>	<p>3 FAST DTS – AGORA: Automatic Generation and Dynamic Evaluation of Power System Restoration Plans <i>Stijn Cole, François Promel, Regina Llopis, José Antonio Marqués, Luis María Zamarreño</i></p>	<p>Agree use case content and objectives with stakeholders <i>Venizelos Efthymiou</i></p>

PROGRAMME

	<p>71 Demand Side Management Considering Consumers Sensitivities Using a Game Theory approach <i>Benoit Durillon, Arnaud Davigny, Sabine Kazmierczak, Hervé Barry, Christophe SAUDEMONT, Benoît Robyns</i></p>	<p>154 Minimum Power Losses by Using droop Coefficients Regulation Method with Voltage and Frequency Constraints in Islanded Microgrids <i>Eleonora Riva Sansaverio, M.Luisa Di Silvestre, Gaetano Zizzo, Binh Doan Van, Quynh Tran Thi Tu</i></p>	<p>91 Rebound Effects of Demand-Response Management for Frequency Restoration <i>Marc Scherer, Olivier Mégel, Martin Geidl, Philipp Lütolf, Evangelos Vrettos</i></p>	<p>Requirements for grid clustering and equivalent and control interfaces <i>Helfried Brunner</i></p>
	<p>101 Residential Consumption Responsiveness Under Time-varying Pricing <i>Venizelos Venizelou, George Makrides, Venizelos Efthymiou, George Georghiou</i></p>	<p>152 Flexible Solution for Grid-Connected Operation of Microgrids, Based on a Leading Inverter With Supercapacitor Energy Storage <i>Ioan Serban, Corneliu Marinescu</i></p>	<p>95 Coordination of Fast Frequency Support from Multi-terminal HVDC Grids <i>Khadjiat Jose, Jun Liang, Oluwale Adeuyi, Carlos Ugalde-Loo</i></p>	<p>The concept of control interfaces and related logic <i>Jan Ringelstein</i></p>
	<p>144 Collective Prosumerism: Accessing the Potential of Embedded Networks to Increase the Deployment of Distributed Generation on Australian Apartment Buildings <i>Mike B Roberts, Anna Bruce, Iain MacGill</i></p>	<p>155 An Adaptive Protection Strategy for Reliable Operation of Microgrids <i>Kourosh Sedghi, Keyvan Talebizadeh Sardari</i></p>	<p>86 Analysis of a Power Factor Regulation Strategy for an Embedded Point-to-Point MMC-HVDC system <i>Arcadio Perilla, Jose Rueda, Mart van der Meijden, Alex Alefragkis, Anna Lindefelt</i></p>	<p>Discussion with stakeholders and agreed outcome <i>Helfried Brunner</i></p>
18:30-20:00	Welcome Reception			
20:00	End of the day			