PROGRAMME

THURSDAY - JUNE 7, 2018

9:30-11:00	OS16 Energy efficient buildings	OS17 Electricity market	OS18 Modelling of renewable energy sources and storage technologies
Room	*Atrium A*	*Atrium B*	*Atrium C*
Session Chair	*Maun Jean-Claude*	*Yoash Levron*	Gianni Bianchini
	105 **Energy Scheduling in non-Residential Buildings Integrating Battery Storage and Renewable Solutions** *Lenos Hadjidemetriou, Lysandros Tziovani, Panayiotis Kolios, Elias Kyriakides*	33 **Energy Arbitrage of Hydrogen-Bromine Flow Battery Between the Day-Ahead and Imbalance Electricity Markets Considering Price Uncertainty** *Yaser Tohidi, Madeleine Gibescu, Wiebrand Kout*	67 **Estimating PV Forecasting Models from Power Data** *Daniele Pepe, Gianni Bianchini, Antonio Vicino*
	135 **Enhancing Storage Integration in Buildings with Photovoltaics (PV-ESTIA project)** *Angelos Nousdilis, Georgios Kryonidis, Eleftherios Kontis, Grigoris Papagiannis, Georgios Christoforidis, Aggelos Bouhouras, George Georghiou, Stavros Afxentis, Ioannis Papageorgiou, Sanja Veleva, Marija Kacarska, Vlastimir Glamocanin, Petar Kisyov*	47 **Projecting Solar Photovoltaic Efficiencies from Lab to Market** *Iris van Beuzekom, Bri-Mathias Hodge, Han Slootweg*	100 **Modeling of a Photovoltaic System with Different MPPT Techniques Using MATLAB/Simulink** *Maria Argyrou, Paul Christodoulides, Soteris Kalogirou*
	98 **Cost-Effective Optimization for an Energy Efficient Design of Electrical Installations of Buildings** *Demetris Monoyios, Lenos Hadjidemetriou, Lazaros Zacharia, Elias Kyriakides*	6 **Optimal Coordinated Bidding of a Profit-Maximizing EV Aggregator Under Uncertainty** *Yelena Vardanyan, Frederik Banis, S. Ali Pourmousavi, Henrik Madsen*	104 **Machine Learning Algorithms for Photovoltaic System Power Output Prediction** *Spyros Theocharides, George Makrides, Andreas Kyprianou, George Georghiou*
	34 **Optimal Management of Energy Storage Systems for Residential Customers with Photovoltaic Generation** *Simone Paoletti, Antonio Giannitrapani, Antonio Vicino, Francesco Antonini*	97 **A Price Decision Approach for Multiple Multi-Energy-Supply Microgrids Considering Demand Response** *Bei Li, Robin Roche, Damien Paire, Abdellatif Miraoui*	130 **A Modeling Methodology to Evaluate the Impact of Temperature on Solar Home Systems for Rural Electrification** *Nishant Narayan, Victor Vega-Garita, Zian Qin, Jelena Popovic-Gerber, Pavol Bauer, Miroslav Zeman*

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11:00-11:30	Coffee Break		
11:30-13:00	**OS19** **Distributed energy generation and renewable energy sources**	**OS20** **Monitoring and control of active distribution grid**	**OS21** **Energy storage and renewables III**
Room	***Atrium A***	***Atrium B***	***Atrium C***
Session Chair	***Antonello Giannitrapani***	***Yaser Tohidi***	***Pekka Koponen***
	137 **Hardware-in-the-loop Test Bench for Investigation of DER Integration Strategies within a Multi-agent-based Environment** *Manswet Banka, Daniel Contreras, Krzysztof Rudion*	96 **A Conceptual Framework for Energy Loss Miniminization in Meshed MV Networks** *Georgios Kryonidis, Charis Demoulias, Grigoris Papagiannis*	124 **Droop vs. Virtual Inertia: Comparison from the Perspective of Converter Operation Mode** *Ron Ofir, Uros Markovic, Petros Aristidou, Gabriela Hug*
	140 **Efficiency of Photovoltaic Systems in Mountainous Areas** *Sri Rama Phanindra Chitturi, Ekanki Sharma, Wilfried Elmenreich*	148 **Utilizing Flexibility Resources in the Future Power System Operation: Alternative Approaches** *Giulia De Zotti, Seyyed Ali Pourmousavi Kani, Henrik Madsen, Niels Kjølstad Poulsen*	129 **On the Virtual Inertia Provision by BESS in Low Inertia Power Systems** *Lucian Toma, Mihai Sanduleac, Stefan Andrei Baltac, Francesco Arrigo, Andrea Mazza, Aysar Musa, Ettore Bompard, Antonello Monti*
	64 **Stochastic Unit Commitment and Reserve Scheduling under Gas-Supply Disrupted Scenarios** *Andrea Antenucci, Giovanni Sansavini*	132 **Probabilistic Impact of the Connection of a New DG unit in a Power System Subject to Active Network Management** *Juan Sun, Pierre-Etienne Labeau, Arnaud Vergnol*	110 **Value Comparison of EV and House Batteries at End-user Level under Different Grid Tariffs** *Sigurd Bjarghov, Magnus Korpas, Salman Zaferanlouei*
	109 **Leveraging Provision of Frequency Regulation Services from Wind Generation by Improving Day-Ahead Predictions using LSTM Neural Networks** *Jérémie Bottieau, Zacharie De Grève, François Vallée, Jean-François Toubeau*	162 **Formulation of the Measurement Noise Covariance Matrix in Linear State Estimation** *Styliani Sarri*	89 **Implementing Artificial Neural Networks in Energy Building Applications – A Review** *Giorgos Georgiou, Paul Christodoulides, Soteris Kalogirou*
13:00-14:00	**Lunch**		
14:00	End of the day		