

International Conference on Smart and Innovative eENERGY
management

26 – 28 September 2023

Institute Mihajlo Pupin, Belgrade, Serbia

Draft Agenda

26/09/2023 at 11:00	Opening Welcome to the Institute Mihajlo Pupin
26/09/2023 at 11:20	Keynote I (prof. Stergios Vakalis)
26/09/2023 at 11:50	Panel Discussion I
26/09/2023 at 14:00	Session I
27/09/2023 at 11:00	Session II
27/09/2023 at 14:00	Session III
28/09/2023 at 11:00	Keynote II (prof. Maria-Esther Vidal)
28/09/2023 at 11:30	Session IV

Session I: Smart Grids

I-1	Johannes Stöckl Introduction to the Session with a Presentation of the Austrian Institute of Technology
I-2	Jovana Gluščević, Žarko Janda and Jasna Dragosavac Comparison of the response of grid forming and grid following inverters connected to a real grid
I-3	Florian Strebl and Bharath-Varsh Rao Impact of large-scale Deployment of Energy Communities on Distribution Grids
I-4	Dayanne Peretti Correa, Luis Miguel Blanes Restoy, Paulo Lissa and Marcus Keane Clustering analysis to support demand response programs
I-5	Patxi Hernandez, Nekane Hermoso and Valentina Janev Towards Positive Energy Districts: Data requirements and use of tools for development of energy transition scenarios
I-6	Luka Ivanović, Djordje Stojić, Slavko Veinović, Dušan Joksimović and Jasna Dragosavac Increasing the voltage regulation stability of the grid-connected sources
I-7	Valentina Timčenko and Slavica Boštjančič Rakas Cyber Security Issues of Cloud-based Dynamic Line Rating

16:30 End of Session I

Session II: Energy Management Systems

II-1	Branislav Dobrosavljević How to Ensure Cyber Security Deep in Your Supply Chain
II-2	Željko V. Despotović, Ilija R. Stevanović, Jovan Šumarac and Aleksandar Rodic Hybrid and Uninterruptible Power for Irrigation on Agriculture Smart Land
II-3	Marija Radmilovic, Zeljko Despotovic, Jovan Šumarac, Jelena Kljajic and Uroš Ilic Sustainable and automated production process of seedlings using robotic systems
II-4	Gavin Larkin, Luis Miguel Blanes Restoy and Marcus M. Keane Simulation-based evaluation of air-source heat pump retrofit to phase-out condensing gas boilers. Case study of campus building in Ireland
II-5	Anđela Marković, Valentina Janev, Nikola Tomašević and Marko Batić Approach to Energy System Modelling for Supporting Decarbonization Scenarios in Energy Communities
II-6	Igor Jovanovic, Marko Jelic and Nikola Tomasevic Multi Objective Energy Management System and Sizing Optimization with Load Shifting

13:00 End of Session II

Session III: Building Energy Management Systems

III-1	Marcus M. Keane Introduction to the Session with a Presentation of the University of Galway
III-2	Luis Miguel Blanes Restoy, Dayanne Peretti Correa and Marcus M. Keane Simulation-based commissioning of control loops for heat pump integration and high temperature systems
III-3	Mariya Chukkiriyan Joy and Marcus Keane Energy Flexibility Assessment for Buildings in Ireland
III-4	Thi Kim Bich Pham, Bharath Varsh Rao and Wilhelm Süßenbacher Peer-to-peer Energy Market incentivizing Energy Efficiency for Local Energy Communities in Austria
III-5	Mojgan Sami and Francisco Sierra The Evolution of Heat Transfer Coefficient (HTC) Calculation Methods: A Critical Analysis

III-6	Zhuoqun Sun, Francisco Sierra and Colin Booth Real-time occupancy estimation using carbon dioxide concentration in Higher Education Institutions buildings
III-7	Spiros Chadoulos, Sotirios Athanasoulas, Stelios Kalogridis, Nikolaos Ipiotis, Odyssefs Diamantopoulos Pantaleon, Iordanis Koutsopoulos and George C. Polyzos Energy optimization of building IoT infrastructures in a stratified way
16:30 End of Session III	

Session IV: Knowledge Management and ICT Tools	
IV-1	Enrique Iglesias, Ahmad Sakor, Philipp D. Rohde, Maria-Esther Vidal and Valentina Janev KatanaG: Fragmenting Data Strategies to Enhance Knowledge Graph Creation from Large Datasets
IV-2	Miloš Nenadović APIs on top of Knowledge Graphs
IV-3	Óscar Cabrera Redondo and Mónica Aragués Peñalba Medium-term electrical demand forecasting of residential activity
IV-4	Sasa Mitrovic and Neven Vrcek Automated machine learning methods for efficient prediction of carbon dioxide emissions in building sector
IV-5	Lazar Berbakov, Valentina Janev, Marko Jelic, Nikola Tomasevic ICT platform for efficient building operation and DR flexibility provision
13:30 End of Session IV	