



ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΕΙΡΑΙΩΣ

6th International Workshop on Data Analytics in the Energy Sector

Tuesday, 7 July 2026

Session Link: <https://easyconferences.eu/iisa2026/6th-international-workshop-on-big-data-analytics-in-the-energy/>

Workshop Agenda

Time	Title	Presenter	Session
8:30-9:00	Registration		
9:00-9:15	Welcome Speech (Elissaios Sarmas)		
9.15-10.00	Keynote Presentations (Massimo Bertoncini, Alexandre Lucas, Antonello Monti)		
10:00-10.15	Coffee Break		
10:15-12:00	143 Comparative Analysis of Categorical and Continuous Methods for Objective Indoor Environmental Quality Assessment in Cultural Heritage Buildings	Emmanouela Bikaki	Session 1 — Intelligent Buildings: From Monitoring and Digital Twins to Predictive Control Chairs: Massimo Bertoncini, Alexandre Lucas
	279 A Production-Faithful Software-in-the-Loop Testbench for Field-Deployed Heat Pump Control Strategies	Michael Stocker	
	320 Development of an IoT-Enabled Digital Twin Platform for Smart Building Monitoring and Optimisation	Dimitra Karoutsou	
	321 A Scalable Data Access and Control Manager for Interoperable IoT-Based Smart Building Systems	Konstantinos Christakis	
	322 Adaptive Energy Consumption Forecasting on Low-Resource IoT Devices	Grigorios Kokkas	
	332 A Genetic Algorithm for Non-Intrusive and Thermal Comfort-Aware HVAC Scheduling in Commercial Buildings	Konstantinos Perifanos	
	339 Bayesian Measurement and Verification of Building Energy Savings Using Monthly Billing Data	Daniela Stoian	
	370 Action-oriented Explainable AI for Human-Centric Comfort Measurement in Smart Buildings	Vittoria Cipolone	
12:00-12.15	Keynote Speech – Vangelis Marinakis		
12:15-13:30	Lunch Break		

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13:30-14:30	Smart Energy Cluster: Advancing Energy Transition with Smart Infrastructure and Engaged Communities			
14:30-14:45	Coffee Break			
14:45-16:15	374	AI.grids: A strategic initiative towards a Paneuropean Foundation Model for Electricity Grids	Elissaios Sarmas	Session 2 — Smart Grids and Distributed Energy Resources: Analytics, Forecasting and Orchestration Chairs: Antonello Monti, Elissaios Sarmas
	300	TimeGPT vs. LSTM-CNN for Photovoltaic Energy Forecasting	Roxana-Catalina Buzan	
	310	Topology-aware Orchestration of Distributed Energy Resources in Blockchain-enabled Virtual Power Plants	Liana Todorean	
	329	Temporal Pattern Discovery in Residential Smart Meter Data Using DTW-Based Time-Series Clustering	Nickie Gkolia	
	336	Federated Learning Adoption in Intelligent Energy Systems: Comparison of Decentralized and Centralized Scenarios	Elpiniki Papageorgiou	
	337	Adaptive Training Horizon and Look-Back Window Selection for Day-Ahead Electricity Price Prediction	Loukia Pavlana	
	338	Probabilistic Wind Power Forecasting via SCADA-Based NWP Correction and Quantile Regression	Symeon Chorozioglou	
	346	Municipalities as Charge Point Operators: Optimizing Solar-Powered Public EV Charging Infrastructure in the City of Athens	Vasileios Kalavrouziotis	
16:15-17:00	283	A Fine-Tuned LLM Virtual Assistant for Multi-Stakeholder Digital Platforms	Ioannis Tsantilas	Session 3 — Energy Communities, Sustainable Finance and Social Innovation Chairs: Tudor Cioara, Vangelis Marinakis
	331	Algorithmic Fairness in Credit Scoring: A Systematic Review of Bias Sources and Mitigation Strategies	Ioannis Papagiannopoulos	
	334	A Hybrid WSM-ELECTRE TRI Assessment Framework for Combined Home Purchase and Energy Efficiency Renovation Loans	Ioanna Andreoulaki	
	340	The Energy Community Readiness Indicator (ECRI): An Assessment Framework Adapted from the Smart Readiness Indicator	Nektarios Matsagkos	
	356	Spatial and Temporal Patterns of Energy Poverty in Greece: A Modified 2M Indicator Approach	Alexandros Xenakis	
17:00	Conclusions – End of Session			
20:00-22:00	GALA DINNER AWARD CEREMONY			