ICSMARTGRID 2025

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May 27-29, 2025, Glasgow/United Kingdom

Best Papers Awards

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First Best Papers Awards	Country
ID:34 Three-phase Nine-level Modular Inverter with High-voltage Gain and Reduced Blocking Voltage Daniel Ferreira (Fct - Cts-uninova and Lasi); Armando Cordeiro (Isel - ipl)*; Paulo Gambôa (Isel-ipl); Rui Guerreiro (Isel-ipl); Joaquim Monteiro (Isel-ipl); Daniel Foito (Estsetúbal-ips); João F. Martins (Fct - Cts-uninova and Lasi); José F. Silva (Ist-ul); Vitor F. Pires (Estsetúbal-ips)	Portugal
ID:41 A Novel Fractional-order Damping Control Method for Enhancing Synchronization in Grid-forming Converters Mohamed Abouyehia (University of Strathclyde)*; Ayse Colak (University of Strathclyde); Reem Nasser (Alexandria University); Agustí Egea-àlvarez (University of Strathclyde); Khaled H. Ahmed (University of Strathclyde)	UK
ID:79 Evaluation of Hydrogen Fuel Cell as A Backup Power for Telecommunication Base Stations Junliang Xiao (Ntt Docomo, inc.)*; Masaki Nakamura (Ntt Docomo, inc.)	Japan
ID:163 High-efficiency Lead-free Dual-absorber Perovskite Solar Cells Employing V^2o5 and Cds Transport Layers: A Scaps-1d Study Rukon Uddin (Gazi University)*; Hidir Duzkaya (Gazi University)	Turkiye
ID:164 Power Hardware in The Loop Test Bed for Ai-based Grid Control Andreas Stadler (Helmut Schmidt University)*; Yuzhuo Fu (Helmut Schmidt University/university of The Federal Armed Forces Hamburg); Nils Pinke (Helmut Schmidt University/university of The Federal Armed Forces Hamburg); Detlef Schulz (Helmut Schmidt University/university of The Federal Armed Forces Hamburg)	Germany
ID:185 Designing and Integrating A Battery-electrolyser Energy System for Communities in Sub-Saharan Africa Soustain Chigalu (Loughborough University); Devine Matare (Renew'n'able); Elizabeth Ashton (Loughborough University)*; John Barton (Loughborough University); Martin Bliss (Loughborough University); Matthew Brenton (Loughborough University); Radoslav Andreev (Monbat Group); Dani Strickland (Loughborough University); Carl Telford (Consortium For Battery innovation); Jonathan Wilson (Loughborough University); Toby Williams (Loughborough University)	UK

Second Best Papers Awards	Country
ID 23 Standalone DC nanogrid cluster design in rural areas and optimal energy management with Markov decision process Fatımanur Tepe, Seyfettin Vadi, Erdal Irmak	Turkiye
ID:81 Proposed Hybrid Intelligent Control for Optimized Photovoltaic Systems Saloua Belaid (Université De Bejaia); Djamila Rekioua (University of Bejaia)*; Mahamadou Abdou-tankari (Univ Paris Est Créteil Certes, iut De Sénart Fontainebleau); Pierre-olivier Logerais (Univ Paris Est Créteil Certes, iut De Sénart Fontainebleau); Toufik Rekioua (Université De Bejaia)	France
ID:93 Hyperparameter Optimization Techniques for Enhanced Machine Learning Energy Forecasting: A Comparative Analysis Amirhossein Adib (Royal Holloway University of London)*; Onyema Nduka (Royal Holloway University of London)	UK
ID:96 Possible Legal Forms for Energy Communities Merilin Metsik (Taltech)*; Narmin Eynizada (Taltech); Tarmo Korõtko (Taltech)	Estonia
ID:103 Building Energy Consumption Prediction Through Energyplus–matlab Co- Simulation Sarra Bendahou (University of Paris-est Créteil)*; Jura Arkhagelski (University of Paris-est Créteil); Mahamadou Abdou-tankari (University of Paris Est-créteil); Gilles Lefebvre (University of Paris-est Créteil); Jimmy Ata (Department of Public Construction and Architecture City of Paris)	France
ID 106 Enhanced MPPT Performance in PV-Based Water Pumping Systems Using Type-2 Fuzzy Super Twisting Sliding Mode Control Ruhi Zafer Caglayan (TED University, Korhan KAYISLI (Gazi University)*, Firat Hardalac (Gazi University	Turkiye

Third Best Papers Awards	Country
ID:94 Power Management for Hydrokinetic-powered Island: A Hybrid Storage System Mohammed Abdulelah Albasheri (Laboratoire De Recherche En Electrotechnique Et Automatique, University of Dr Yahia Fares, Medea)*; Youcef Soufi (Laboratoire Du Génie Electrique University Echahid Larbi Tebessi); Abderrezzak Cheri? (Iut De Mantes-en-yvelines, Laboratoire End-icap - Umr1179 Université Paris Saclay); Ouahid Bouchhida (Laboratoire De Recherche En Electrotechnique Et Automatique, University of Dr Yahia Fares, Medea); Mujammal Ahmed Hasan (Laboratoire De Recherche En Electrotechnique Et Automatique, University of Dr Yahia Fares, Medea); Muntaser Mohammed Al-sharfi (Laboratoire De Eneries Reneouvlable Et Des Materiaux University of Dr Yahia Fares)"	Algeria
ID:97 A Comparative Analysis of Machine Learning Based Power Flow Study with Custom Made Open Source Python Codes Bilal Ahmad (Royal Holloway)*; Onyema Nduka (Royal Holloway)	UK
"ID:109 Energy Simulation Models of A Photovoltaic-powered Energy Community Mariacristina Roscia (""university of Bergamo, italy"")*; Giuliana Daniela Foti (University of Bergamo); Cristian Lazaroiu (Politehnica Bucharest)"	Italy
ID:128 Performance Analysis of Smart Grid Energy Systems Under Varying Loads Using Digital Twin and Real-time Data Analytics Ramakrishna Nuvvula S S (Nitte Nmamit)*	India
ID:136 Adaptive Energy Management Systems for Smart Grids: A Hybrid Approach Using Machine Learning and Iot Integration Polamarasetty Kumar (Gmr institute of Technology)*	India
ID:145 Machine Learning for Predictive Maintenance in Power Generation and Distribution Riyaz Ahammed (Nitte University)*	India
ID:170 Assessing The Contribution of Wind Generation to Grid Balancing Services Abdelhakim Belkaid (Bejaia University)*; Ali Berboucha (Bejaia University); Said Aissou (Bejaia University); ilhami Colak (Istinye University); Kamel Djermouni (Bejaia University); Elyazid Amirouche (Bejaia University); Kaci Ghedamsi (Bejaia University); Houssam Deboucha (Bejaia University)	Algeria
ID:238 Use of Convolutional Neural Networks for Short-term Grid Modal Parameters Forecast Carlo Olivieri (University of L'aquila)*; Francesco De Paulis (University of L'aquila); Lino Di Leonardo (University of L'aquila)"	Italy