

Poster Session

PESS 2026 | Thursday 22 October 2026, 13:30 – 15:30 | KIT Campus South, Building 30.10

No.	Title and authors
1	Reinforcement Learning for 110 kV Distribution Grid Restoration in a Blackout Situation Zeel Nakrani (Friedrich-Alexander-University Erlangen-Nürnberg)
2	Decentralizing Security: A Case Study on IEC 62443 Sven Sauerbaum , Daniel Henn, Fabio Stoll, Niklas Briem, Joachim Gerlach (Albstadt-Sigmaringen University)
3	Exploring uncertainty in multi-hazard risk assessments of the pan-European high voltage power system Valentin Weiwad , Elco Koks (Vrije Universiteit Amsterdam)
4	Calibration of Probabilistic Feasibility Models for Operation of Flexible Assets in Low Voltage Grids Luis José Guzmán Salcedo , Leon Renn (Siemens AG, Erlangen)
5	Grid-Forming Control of Type-4 Wind Turbines for Offshore Wind Farm Applications – Modeling and System-Level Analysis Jawadul Hasan Saad , Felix Goeke (TU Dortmund University)
6	Implementation of a flexible home energy management system and integration into a grid calculation environment Malte Wischer , Laura Fielder, Martin Wolter (Dresden University of Technology)
7	Surrogate assisted National level grid studies for Germany Pedro Caixeta , Anurag Mohapatra (Technical University of Munich)
8	NeoFlex: Decentralized Control for Low-Voltage Distribution Grids Sven Sauerbaum , Reyk Haller (Albstadt-Sigmaringen University)
9	A Framework for Physics-Informed Surrogate Modeling of Synchronous Generator Dynamics Fabian Gebhardt , Anurag Mohapatra, Smajil Halilovic (Technical University of Munich)
10	Coordinated Voltage-Based Load Control and Frequency-Based PV Control for Day-Ahead Forecast Error Reduction Yiting Chen , Qiucen Tao, Giovanni De Carne (Karlsruhe Institute of Technology)
11	Stochastic Multi-Market Dispatch of Battery Energy Storage Under Market Uncertainty Leon Tadayon , Georg Frey (Saarland University)
12	Impact of $\cos(\varphi)$ and $Q(U)$ control on voltage constraint mitigation in different 20 kV medium-voltage network structures Nico Kloidt , Eric Tönges, Johannes Heid (University of Kassel)
13	Assessment of Measurement Accuracy and Grid Event Detection Using a Low-Cost μ PMU Tobias Spendel , Sebastian Eichhorn (Technical University of Munich)
14	How Extreme Weather Shapes Grid Resilience: Evidence from the German Transmission Network Himali Talware , Prashant Pant, Thomas Hamacher (Technical University of Munich)
15	Condition-Aware Annual Tail-Risk Assessment of Power-Delivery Assets Using Digital-Twin Degradation States Arvil Sen , Prashant Pant (Technical University of Munich)
16	Telecommunications-inspired algorithms for energy routing in power systems Christoph Joswig , Sebastian Schwarz (RWTH Aachen University)
17	Thermal Hardware-in-the-Loop: Concept, Implementation, and Experimental Validation Nima Ghorbani , Fargah Ashrafidehkordi, Veit Hagenmeyer, Giovanni De Carne (Karlsruhe Institute of Technology)
18	Comprehensive Power Profiling of the KARA Particle Accelerator: From Operational Baselines to Economic Optimization Mahshid Mohammad Zadeh (Karlsruhe Institute of Technology)
19	Impact of Downstream Faults on Grid-Forming Converters in Asynchronous Grids Sarah Okumu , Fargah Ashrafidehkordi, Jonghun Yun, Giovanni De Carne (Karlsruhe Institute of Technology)