PAPER SESSIONS 03.11.

Power Converter and Electrical Machine Control Strategies

10:45-11:00	Possibilities for the Use of Single Board Computers in Hardware-in-the-Loop Systems
11:00-11:15	Controller Parameterization for Grid-connected Power Converters through Reinforcement Learning
11:15-11:30	Asymmetric and Confined Operation of a Generic Virtual Synchronous Machine
11:30-11:45	Investigation of estimation algorithms as an alternative to distance sensors in wind turbines
11:45-12:00	Comparative Evaluation of Control Strategies for Shunt Active Power Filters in Industrial Power Systems
12:00-12:15	Grid-forming fuel cell system for a multi-energy-microgrid in islanding operation

Realtime Simulation, Testing and Protecting

13:45-14:00	Current Limiting of Virtual Synchronous Machines on Unbalanced Faults Considering Grid Protection
14:00-14:15	A Generic Data Generation Framework for Short Circuit Detection Training of Neural Networks
14:15-14:30	Simulation of a cross-sectoral Energy System on a Real-Time Computer
14:30-14:45	A Python Test Environment for Multi-Agent Systems in a Large Electrical Distribution Grid Model
14:45-15:00	Conformity investigation of type 3 doubly fed induction generator wind power plant regarding grid code compliance test
15:00-15:15	Evaluation and Test of Distance Protection in Cellular Energy Systems by Power Hardware in the Loop Method

Power Electronics Topologies, Components and Behaviours

15:35-15:50	Design of a PV-Micro Inverter with Universal Three-Phase and Single-Phase Output Configurations
15:50-16:05	On the Modeling of Nonlinear Electrical Conductivity and Field Distribution of Mineral Oil under HVDC-Load
16:05-16:20	Non-invasive alternating and direct flux sensor for power transfomers
16:20-16:35	Scalable battery cell cascaded H-bridge converter
16:35-16:50	A study on behavioural changes on high voltage capacitors in power electronics applications

PAPER SESSIONS 04.11.

Grid Operation and Control

11:30-11:45	Modelling the Influence of Virtual Inertia in Distribution Systems on Frequency Stability
11:45-12:00	Analytical Threat Modeling for Power Systems
12:00-12:15	Deep neural networks for short-term multivariate solar power predictions from various meteorological forecast data
12:15-12:30	Influence of GIC related Reactive Power Demand on the Austrian Transmission Grid
12:30-12:45	Distinction Between "Destructive" and "Constructive" Harmonic Currents to the Voltage Quality
12:45-13:00	EMT-Simulation of Grid-forming Converter with Voltage Angle Control
13:00-13:15	Time Series Data Splitting for Short-Term Load Forecasting

Grid Planning

14:00-14:15	Methods for identifying relevant grid areas for the integration of distribution grid automation systems
14:15-14:30	Comparison of methods for reducing the complexity in determination of grid reinforcement demands
14:30-14:45	Open Electrical Grid Model for Regional Transmission Networks
14:45-15:00	Relevance of unbalanced loads in low voltage grids in the context of emerging electromobility
15:00-15:15	Hydrogen Pipeline Network Design: An optimization-based planning method considering the existing natural gas network
15:15-15:30	Optimization of the Electricity Market Participation by a Waste Incinaration CHP Plant with a Battery Energy Storage System