

SELECTED PAPERS FROM IEEE GPECOM 2024 PROCEEDINGS

1- IEEE Transactions on Industry Applications

- [1] ID 29: LLC Laser Driver for Laser Wireless Power Transfer Application
- [2] ID 46: Implementation of SCADA for IEC 61850 communication in the IEEE 14-Bus System
- [3] ID 62: ALO-tuned Supertwisted Synergetic Control of a CPL-fed Boost Converter in DC Microgrid
- [4] ID 92: Analysis of the Influence of Grid Forming Control on Power System Stability
- [5] ID 101: Modeling Zero-Dynamics Attacks on Wind Turbines Through Laplace and Z-Domain Representations;
- [6] ID 106: Enhancing Grid Resilience: Islanding Control in a Digital Twin of Real Electrical Distribution System
- [7] ID 107: Comparative Study of Low-Frequency Transmission Solutions for Offshore Wind Farms
- [8] ID 108: Cyber-physical metropolitan area digital substations test bench for evaluating intrusion detection systems
- [9] ID 109: Hardware-in-the-Loop platform based on Smart Meters for Demonstrating Advanced Distribution Management Systems
- [10] ID 110: Design and Component Selection of Three-Phase T-type Power Factor Correction (PFC) rectifier
- [11] ID 111: Control Strategy for Torque Ripple Reduction in Brushless DC Motors with 180-Degree Commutation
- [12] ID 131: Stability of a Distributed Controller for Optimal Current Sharing and Voltage Containment in DC Microgrids
- [13] ID 146: Conducted Emission Measurement of Multiphase On-Board Buck Converters
- [14] ID 153: Identification of Photovoltaic and Electric Vehicle Profiles in Distribution Networks Using Long Short-Term Memory Network
- [15] ID 162: Power-Hardware-in-loop test of a Grid-Forming Converter;
- [16] ID 177: Enhancing Energy Efficiency in Distribution Grids through Load Profile-Driven Mutual Displacement of Transformers
- [17] ID 190: Interoperability Assessment of IEC 61850 Devices in a Multivendor Digital Substation
- [18] ID 195: Stability Analysis of DFIG with Virtual-Admittance-Based Grid-Forming Control under Different Grid Strengths
- [19] ID 204: Delay – Dependent Stability Analysis of Load Frequency Control Systems Considering Wind Power Participation
- [20] ID 208: Distributed Secondary Control for Accurate Reactive and Harmonic Power Sharing among VSIs with Integrated Grid-Forming and Grid-Following Capabilities;

- [21] ID 230: A Damping-Free Method for Mitigation of Trapezoidal Rule Oscillations in Linear Systems
- [22] ID 238: Sensorless MPCC Based PMSM Drive with Multilevel Inverter for EVs
- [23] ID 239: Machine Learning-Assisted Operation Monitoring Analytics on a Hydro Power Plant
- [24] ID 240: Optimizing Comfort and Energy Efficiency: The Impact of Model Accuracy on Multi-Objective MPC
- [25] ID 261: Towards Alleviating Operating Conditions of MPC Controlled VSC for DFIG-Based Wind Turbines Using PSO Algorithm
- [26] ID 280: Resilience Oriented Distributed Secondary Control for Networked Microgrids: A Case Study from Indonesia
- [27] ID 288: Grid-forming Five-level Cascaded H-Bridge Inverter with Synchronous Power Control;
- [28] ID 289: Economic Implications of Overvoltage Mitigation Methods in PV-rich LV Networks by Distribution Locational Marginal Pricing;
- [29] ID 304: Optimizing Residential Energy Systems in Households: A Model Integrating Energy Assets with Economic Evaluation through LCOCE
- [30] ID 306: Optimal Sizing of Battery Energy Storage Systems Participating in Primary Frequency Control in Turkish Power Grid

2- Energy360

- [1] ID 8, Interactions between Active Distribution and Transmission Networks: State of the Art and Opportunities (**Survey Paper**)
- [2] ID 40, DC Microgrid – Applications, Technical benefits and Control strategy (**Survey Paper**)
- [3] ID 271, A Comparative Study of Rooftop and Ground Mounted Solar PV Design in the UK and Indonesia (**Survey Paper**)
- [4] ID 52, Sag Monitoring for Overhead Transmission Lines Using 5G Radio Signals
- [5] ID 112, Conversion of single circuit AC transmission lines to bipolar DC
- [6] ID 113, Comparison of Parabolic Trough Concentrated Solar Power and Photovoltaic Plants with and without Energy Storage using NSGA-II
- [7] ID 122, Iterative AHA-Driven Microgrid Reconfiguration for Interconnection Performance Enhancement
- [8] ID 134, Performance Evaluation of D-Q Current Controller for Grid-Connected Full-Bridge Inverter Under Nonlinear Load Conditions
- [9] ID 157: Deep Reinforcement Learning for Adaptive Optimization of PI Control for Microgrid Under Fault and Variable Loading
- [10] ID 158, Case Study of a Potential Green Hydrogen Plant in Indonesia
- [11] ID 164, Diagnostic and Prognostic Health Management of Electric Vehicle: Bridging the Skills Gap in EV Maintenance with Intuitive 3D Interactive Solutions
- [12] ID 178, Buck-Boost Converter Modeling and Control based on its Role within a Microgrid
- [13] ID 183, Enhancing the Control of a DC/AC Converter for Voltage Perturbation Ride-Through in Compliance with the Cuban Grid Code
- [14] ID 188: Cirata Floating Photovoltaic Solar Plant 192 MWp: A review of the Biggest Floating Solar PV in Indonesia

- [15] ID 197: Evaluation Method of Integrated Electricity-gas Distribution Network Resilience under Typhoon Disaster
- [16] ID 202, Neural-Network Based Energy Management System for Battery-Supercapacitor Hybrid Storage
- [17] ID 205, Performance Enhancement of Renewable System via Hybrid Switched-Inductor-Capacitor Converter
- [18] ID 206: Aggregated and Reduced-Order Admittance-Based Modeling of Converter-Interfaced Resources for Power Systems Transient Analysis
- [19] ID 211, Advanced MPPT Strategy for PV Solar Energy Systems Using ANN-GWO
- [20] ID 221, Data-driven based Power Quality Disturbance Analysis for Improved Reliability in Smart Grids
- [21] ID 223, A comparative Analysis of Machine Learning Methods for Power System Transient Stability
- [22] ID 233, Experimental validation of a Low-Voltage Back-to-Back Converter Control Strategy
- [23] ID 247: Methodology for Calculating the Real Service Life of 10 kV Cable Insulation by Determining the Parameters of Thermal Conditions in Various Operation Modes
- [24] ID 301: Modeling, Analysis and Optimization of Energy Management in An Islanded Microgrid
- [25] ID 307: AGC Integration and Parameter Optimization for The Reduced Dynamic Model of Turkish Power Grid

3- NEVU Journal of Engineering and Architecture

- [1] ID 18, Multiphysics Simulation Analysis of Copper Lead Arrangement in a Very High Power Transformer
- [2] ID 23: Dual Optimal Strategy with Receding Horizon Control of Wind Farm to Provide the Fast Frequency Response
- [3] ID 54, PMSM Sensorless Control System Based on DTC Using FLC and Luenberger-PLL Observer
- [4] ID 63, The Impact of Controlled Deep Discharge Start Voltage, End Voltage and Current on Voltage Recovery and Cell Temperature for Lithium Ion Battery Recycling
- [5] ID 83: A New Computational Method of Electrical Distances for Modern Power Grid: Voltage Stability-Based Method
- [6] ID 89: MIMO-NOMA-DAE: A Deep Learning based Downlink MIMO-NOMA Scheme for Low-Power Applications with Imperfect CSI
- [7] ID 125, Smart Architecture Framework with 5G Private Networks and AI for Sustainable Agriculture
- [8] ID 128, Prediction of the output of the tri-generation concentrated solar power system based on artificial neural network
- [9] ID 136, Dual-Band Four-element MIMO Side-Edge Antenna for Modern Wireless Communications
- [10] ID 147, Design an OAM Reconfigurable Printed Antenna for Wireless Applications

- [11] ID 181, EMF Exposure De-Concertation Model for Multi Technology Mobile Base-Station
- [12] ID 182, A Novel Tunable Vortex-Induced Vibration Wind Energy Harvester
- [13] ID 189: Framework for Intelligent Radio Grid For Legacy Radio Sets Using CNN Based Signal Classifier and Software Defined Radios
- [14] ID 191, Active Power Decoupling on a Differential Single-Phase Inverter with Non-linear Load
- [15] ID 194, Distribution Transformer Core Design Optimization Using Heuristic Optimization Methods
- [16] ID 265: Analysis and Optimization of Cooperative Jammer for Spatial Electromagnetic Spectrum Holes
- [17] ID 212, Model Predictive and Sliding Mode Control Hybridization for Voltage and Average Current Control of Dual Active Bridge DC-DC Converter in Battery Electric Vehicles Powertrain
- [18] ID 226, State of Charge Estimation and Circuit Implementation for Lithium Battery Based on the Elman Neural Network Algorithm
- [19] ID 227: Performance Evaluation of Wi-Fi FTM Indoor Positioning for Embedded Applications
- [20] ID 231, Distributed Secondary Control for DC Microgrid with Reduced Communication Variables
- [21] ID 259, Design of a Smart Solar-Recharge Electric Cart for Location Recognition and Guided Tours using IoT
- [22] ID 270, Development of a Hybrid Energy Storage System for a Forklift Vehicle
- [23] ID 279: Inter-Core Communication Performance Evaluation of a Multicore Microcontroller for Edge Computing Applications
- [24] ID 295, Wideband Hybrid Dielectric Resonator Antenna Array for 5G mmWave Mobile Applications
- [25] ID 300: Orbital Angular Momentum with the Approach of Using in Sub-6GHz 5G Mobile Communications for Wireless Applications