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Autore	Sharma Rahul
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Nota di contenuto	Cost Effective and Efficient High Gain DC-DC Converter for Electric Vehicle Application -- Fault Detection on a Transmission Line Using Wavelet Transform -- Automated Car Parking Indicator System Using MATLAB -- Design and Order Reduction for a GWO-Based PID Controller for Load Frequency Control -- Improve Firefly Algorithm Applied to Solve Economic Load Dispatch Problem with Valve Point Loading Effect -- An Improved ResNet-50 Neural Network Design for PV Panel Image Classification -- Fuzzy Based Speed Control of 3-Induction Drive Fed from multilevel Space Vector PWM Controlled DFIG -- An Overview of Multilevel Inverter Applications in Aircraft, FACTS and Renewable Energy Sources -- Application of Demand Response for Voltage Profile Improvement and Deviation Charges Minimization -- Prandtl-Ishlinskii Model Based Hysteresis Modelling and Identification of Piezoelectric Actuator -- A Comprehensive Review on Battery Thermal Management System for Electric Vehicles -- Multi Objective Manta Ray Foraging Optimized Fractional SSSC Control Action for Enhancing Small Signal Stability Action -- Damping Of Angular

Frequency Variation for A Grid Connected Micro Grid by Optimal Fuzzy Controller -- TGT-Net Graph-Transformer-Based Architecture for Drug-Target Interaction Prediction -- Detection of fault in UPFC Compensated System Using Fuzzy Inference System -- ICA Based Optimal Deployment of Renewable-Based Distributed Generation Units for Power Loss Reduction -- Steady state modeling and Dynamic analysis of a hybrid renewable energy power plant constituted by PV and BESS on PSS®E software -- A Comprehensive Survey on Detection and Classification of Power Quality Disturbances -- Sentiment Analysis in Speech Recognition System using Artificial Intelligence -- Energy Management and Voltage Regulation in a Grid-Tied DC Microgrid to Minimize Energy Import from Grid -- Modeling of a Folded Smart Wireless Car Charger in a Solar Electric Vehicle (EV) charging with an automatic recharge -- Design and Simulation of Vintage-Styled Electric Vehicles Capturing the Essence of Classic Cars with Electric Drive Systems -- Modeling and Development of an Automatic Balance Hoverboard -- Frequency and Voltage Control in the Hybrid Power System using MGO Optimised FOPID Controller -- A Novel 5-level Reduced Switch Multilevel Inverter -- Integrated Design and Validation of High-Performance Electric Vehicle Powertrains A MATLAB Simulink Approach -- Power Sharing of Load in Microgrid Environment using Virtual Impedance based Droop Control -- Rainwater-Centric Civil Infrastructure Enhancing Flood Prediction and Crop Protection -- Modeling of Hybrid power plant using PSSE -- Design and development of electric and solar powered source transportation vehicle.

Sommario/riassunto

This book features high-quality, peer-reviewed papers from the International Conference on Future Power Network and Smart Energy Systems: Issues and Challenges (FPNSES-2023). Organized by the Department of Electrical Engineering at the National Institute of Technology, Kurukshetra, it includes contributions from academicians, technologists, entrepreneurs, and research scholars. The content is designed to benefit engineers, students, and researchers working in the fields of power networks and smart energy systems.