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Nota di contenuto	A Critical Review of Distribution System Contingency Analysis -- On the Pulse of Traffic: A Review of Service-Centric Heterogeneous Vehicular Network Modeling -- A Comprehensive Survey on Cyber Attacks in Smart Grid Networks -- Placement of line switches to support microgrid operation in a renewable energy-enhanced power distribution system -- Electric Vehicle Battery Energy Storage System to Regulate Frequency in a Smart Grid -- Experimental Study on Detection of Household Electrical Appliance Energy Consumption Deviation -- Design of Speed Controller of DC Motor Considering Saturation of Actuator -- Performance Evaluation of IEC/IEEE Standard 60255-118-1-2018 Compliant M-Class Phasor Measurement -- An Optimal Fractional Order PI Controller Based Shunt Active Power Filter Design for the Improvement of the Quality of Power -- Assessment and Analysis of PV-Wind-MSW based Microgrid: A Case Study -- Optimization Stability of Multi-area Interconnected System by Double

Fuzzy-PID Controller -- Feasibility study of distribution network modification considering performance improvement and reliability -- Enhancing Face Recognition Accuracy: A Novel Approach using EfficientNet B7 and Triplet Loss Learning -- Validation of CRDI Low-Power Diesel Engine for Diesel Generator Set as a Renewable Energy Source in Microgrid -- Bi-Orthogonal Wavelet Function-Based Transmission Line Protection to Improve Grid Reliability -- A Review on Cooperative Payload Transportation Using Quadrotor Drones -- Advanced Agriculture System using IoT -- Optimal value determination using traditional and newly developed methods for Initial Basic Feasible Solution of the Russell and Vogel's Approximation Methods -- Enhancing Face Recognition Accuracy: A Novel Approach using EfficientNet B7 and Triplet Loss Learning -- Frequency Stability Analysis of Multi-Area Power System using Sine-Cosine Algorithm -- Seamless Operation of Microgrid using PI controller based on Artificial Neural Network -- Machine Learning Algorithms for Load Forecasting in Smart Grid -- Fuzzy based Inertia Control of Microgrid for Frequency Stabilization.

Sommario/riassunto

This book contains selected papers presented at Third International Symposium on Sustainable Energy and Technological Advancements (ISSETA 2024), organized by the Department of Electrical Engineering, NIT Meghalaya, Shillong, India, during February 24–25, 2024. The topics covered in the book are the cutting-edge research involved in sustainable energy technologies, smart building technology, integration and application of multiple energy sources; advanced power converter topologies and their modulation techniques; and information and communication technologies for smart micro-grids.
