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Soggetti	Electric power production Electric power distribution Electronic circuits Signal processing Power electronics Electrical Power Engineering Energy Grids and Networks Electronic Circuits and Systems Digital and Analog Signal Processing Power Electronics
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Livello bibliografico	Monografia
Nota di contenuto	An Efficient Algorithm for Energy Management in Smart Grid for Various Improvements -- Investigations and Validation of PV Powered Unified Power Quality Conditioner for Electric Vehicle Smart Charger in Standard AC/DC hybrid microgrid test system -- Microgrid Systems with Classical Primary Control Techniques - A Review -- Green Energy Solutions for Indoor Air Quality Improvement -- Solar rooftop On Grid Connected Net Metering System -- Contemporary Maximum power point tracking methods of solar photovoltaic modules -- Performance Analysis of Perturb & observe and incremental conductance method of Maximum Power Point Tracking in Solar PV based power generation -- Comparative Study on Solar PV Module Performance with Sun Irradiance Trapping Mechanism: Power Gen-eration Forecasting using Machine

Learning -- The Geometric Modelling and Linearization of Small-Scale Wind Turbine Blades -- Energy production from various bio-waste under different electrode and temperature conditions: Experimental study -- Simulation and Prototype Design of Hybrid Renewable Energy Harvesting System -- Design and development of an inexpensive intelligent device for sag measurement for overhead transmission lines -- Improvement in Voltage Stability of the System due to Increased Penetration of Electric Vehicles using Distributed Photovoltaic Sources -- An Intelligent System for Furfural Estimation in the Power Transformers -- Optimization of Distributed Generators in a Virtual Power Plan Using Mixed Integer Linear Programming Method -- Solving Unit Commitment Problem Using Mixed Integer Linear Programming for Demand Side Management -- Mixed Reality Accelerates the Designing Process in Automotive Industry -- Modelling and Analysis of a Permanent Magnet DC motor fed Electric Vehicle Drive System -- Design and Development Gear-Electric Bike and Performance Testing for Indian Road Conditions -- Design and Development of a Solar-based Wireless Electric Vehicle Charging System -- Using linear regression model to predict the wholesale of the electric car in Indonesia: What can be learned from the model -- Harmonics Analysis of Triplen-Phase Induction Motor Drive -- Analysis of Three-winding Transformer Configurations for Energy Storage Less Dynamic Voltage Restorer -- Controlling methods of Brushless DC Motor in Electrical Vehicle Drives -- Use of Solar Energy in Treatment of Pulp and Paper Industry Effluent with Hemp- An Experimental Study -- Hybrid Waste to Energy Electricity Generation and Battery Storage System, the Economics and Environmental Emission in a Low Income Community -- Deep Image Coding in the Fractional Wavelet Transform domain based on High Frequency Sub-Bands Prediction -- An approach for renewable-energy-source-selection based on ambiguous intuitionistic fuzzy information -- Artificial intelligence-Based Bearing Fault Diagnosis of Rotating Machine to Improve the Safety of Power System -- Performance Analysis of Grid Integrated Solar System Through Interlinking Converter With Control Schemes -- Effectiveness of Resilience Index in Assessing Power System Performance.

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### Sommario/riassunto

The proceedings is a collection of papers presented at International Conference on Renewal Power (ICRP 2023), held during 28 – 29 March 2023 in Mewat Engineering College, Nuh, India. The book covers different topics of renewal energy sources in modern power systems. The volume focusses on smart grid technologies and applications, renewable power systems including solar PV, solar thermal, wind, power generation, transmission and distribution, transportation electrification and automotive technologies, power electronics and applications in renewable power system, energy management and control system, energy storage in modern power system, active distribution network, artificial intelligence in renewable power systems, and cyber physical systems and internet of things in smart grid and renewable power.

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