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International Symposium on Innovations in Power and Energy using AI Techniques

Scope of the Symposium: The Symposium explores the transformative role of Artificial Intelligence (AI) and Machine Learning (ML) in revolutionizing the Power and Energy Sector. The energy sector is undergoing a paradigm shift, driven by the increasing demand for efficiency, sustainability and resilience. Artificial Intelligence (AI) and Machine Learning (ML) have emerged as transformative forces, enabling smarter energy management, predictive maintenance and enhanced decision-making processes. This symposium explores how AI and ML technologies are revolutionizing energy production, distribution and consumption. It delves into applications such as smart grids, renewable energy forecasting, energy optimization and autonomous systems for enhanced operational efficiency. By presenting real-world case studies and future trends, this book serves as a comprehensive guide for industry professionals, researchers, and policymakers aiming to harness AI and ML to drive innovation in the energy sector.

The main topics of this book include, but are not limited to:

- ❖ An overview of smart energy powered by artificial intelligence
- ❖ Energy-efficient features in energy infrastructure
- ❖ Smart Grid and low-carbon power generation technologies
- ❖ Energy management and smart-grid control plan
- ❖ Renewable energy-powered smart grid of the future
- ❖ Innovative renewable energy-based power generation technology
- ❖ Advanced hybrid system
- ❖ New tools and apparatus for lowering emissions
- ❖ Analytics of data generation, transmission, and consumption
- ❖ Infrastructure for electrified transportation
- ❖ Infrastructure for grid-interactive buildings

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Started-10/09/2025

Deadline-10/10/2025

Full Chapter Submission
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****The book will be submitted for possible inclusion in Scopus and others indexing.**

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