

To address the demanding needs of industry and university research groups pursuing critical innovations in Smart Grid and Microgrid technologies, National Instruments has joined forces ...

The platform serves as a foundation for next-generation microgrid control systems that demand real-time intelligence, scalability, and reliability across evolving smart grid landscapes.

Smart microgrids are emerging as a pivotal solution within this framework, offering localized energy management that aligns with sustainability goals. These systems leverage diverse distributed energy ...

This review critically examines the integration of Artificial Intelligence (AI) and Deep Reinforcement Learning (DRL) into smart microgrid platforms, focusing on their role in optimizing ...

This smart application uses smart technologies such as Machine Learning (ML) and IoTs to predict energy demands, optimize energy resource efficiency, and support real-time decision-making.

This white paper focuses on tools that support design, planning and operation of microgrids (or aggregations of microgrids) for multiple needs and stakeholders (e.g., utilities, developers, ...

This paper presents SmartGrid AI, a platform integrating deep reinforcement learning (DRL) and neural networks to optimize energy consumption, predict demand, and facilitate peer-to-peer (P2P) energy ...

An AI-powered microgrid platform that generates on-site energy, forecasts demand, intelligently balances loads, and stores low-cost energy for use during peak hours.

This paper provides a structured framework for constructing Digital Twin-enabled Smart Microgrids, emphasizing automation to enhance device intelligence.

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