

Smart buildings are self-regulating, energy-efficient, and data-driven powerhouses. They integrate smart building technology such as IoT (Internet of Things) sensors, cloud computing, and ...

Smart Building Systems have emerged as a game-changer in the construction and management of modern buildings. These systems integrate cutting-edge technology and advanced ...

Smart buildings use data and automation to optimize operations--and solar is a key part of that system. By integrating solar with energy management and storage, buildings reduce costs, improve ...

This paper presents an integrated energy management solution for solar-powered smart buildings, combining a multifaceted physical system with advanced IoT- and cloud-based control ...

There has been a growing trend of integrating solar power into the concept and practice of green buildings in an urban environment making use of information technologies and artificial ...

In an era focused on sustainability, integrating smart technology into green buildings is pivotal. This process involves deploying advanced technologies, such as IoT devices, AI systems, ...

This study constructed a holistic, intelligent, and high-efficiency hybrid solar energy system based on AI-driven solar tracking, smart material-based PV enhancement, adaptive...

The integration of Artificial Intelligence (AI) with Building-Integrated Photovoltaics (BIPV) is set to revolutionize smart energy buildings. AI enhances BIPV by optimizing energy output, ...

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