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Patent Search

Invention Title	SUSTAINABILITY EVALUATION OF GREEN BUILDING BASED ON ARTIFICIAL INTELLIGENCE AND ENERGY CONSUMPTION
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Abstract:

Abstract: This patent application pertains to a pioneering system for enhancing the sustainability of green buildings by leveraging Artificial Intelligence (AI) and advanced consumption monitoring. Green buildings, designed to minimize environmental impact and optimize resource usage, have become pivotal in the context of global sustainability efforts. The system, at its core, comprises an intricate network of sensors and Internet of Things (IoT) devices strategically placed within the building. These sensors collect real-time data on energy consumption and environmental parameters, transmitting it to a central AI-driven processing unit. The AI algorithms process this data, recognize patterns, and offer real-time optimization recommendations to improve energy efficiency. The system also provides valuable feedback to building occupants and administrators, enabling informed decisions, and generates sustainability reports for green building certifications. This innovation revolutionizes the sustainability of green buildings, fostering energy efficiency, resource conservation, and environmental responsibility.

Complete Specification

Description: SUSTAINABILITY EVALUATION OF GREEN BUILDING BASED ON ARTIFICIAL INTELLIGENCE AND ENERGY CONSUMPTION

Field of the Invention:

The present invention pertains to the field of green building technologies and AI-based systems for energy efficiency and sustainability evaluation.

Background of the Invention:

The concept of green or sustainable buildings has become increasingly vital in addressing the global challenges of climate change and resource conservation. Green buildings, also known as environmentally friendly or eco-friendly buildings, are designed to minimize their environmental impact through efficient use of resources and sustainable practices. These structures aim to reduce energy consumption, water usage, and waste generation while providing a healthy and comfortable environment for occupants.

The importance of green buildings lies in their potential to significantly reduce greenhouse gas emissions, lower energy costs, and create healthier living and working spaces. However, the design, construction, and operation of green buildings require a comprehensive approach to sustainability that goes beyond traditional construction practices.

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