

Designing Sustainable Internet of Things Solutions for Smart Industries

Part of the Advances in Business Information Systems and Analytics Book Series

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Description:

As industries worldwide grapple with the dual challenge of meeting modernization demands while addressing urgent environmental concerns, the need for sustainable solutions has never been more pressing. The proliferation of Internet of Things (IoT) technologies offers a promising avenue for enhancing efficiency and productivity in various sectors. However, the design and implementation of IoT solutions often overlook environmental considerations, leading to missed opportunities for eco-friendly innovation. This oversight exacerbates environmental degradation and undermines efforts to achieve sustainability goals.

Designing Sustainable Internet of Things Solutions for Smart Industries offers a forward-thinking approach to integrating IoT technologies with environmental stewardship. By delving into the intricacies of sustainable IoT design and implementation, this book provides engineers, designers, and industry leaders with the knowledge and tools necessary to create innovative solutions that prioritize sustainability. Through a mix of technical insights, case studies, and strategic frameworks, readers are equipped to navigate the complexities of IoT deployment while minimizing environmental impact.

With a focus on addressing pressing research questions and overcoming key challenges, this book serves as a comprehensive guide for driving eco-friendly innovation in smart industries. By emphasizing the integration of IoT with renewable energy sources, waste reduction strategies, and ethical considerations, it offers a roadmap for industry professionals, academics, policymakers, and technologists, to create smart industrial environments that are not only efficient but also environmentally responsible.



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