Achieving Sustainability with AI Technologies

Part of the Practice, Progress, and Proficiency in Sustainability Book Series

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Description:

In the wake of rapid industrial expansion and the consequent surge in energy consumption, our planet faces an imminent threat—global warming. The symbiotic relationship between escalating industrial activities and the insatiable demand for energy resources has given rise to a pressing environmental crisis. As information technology (IT) and computing services advance at an unprecedented pace, the need for energy usage grows exponentially, exacerbating the environmental impact. The world is at a crossroads, demanding a transformative solution that not only addresses the energy conundrum but also steers technological advancements toward a sustainable future.

Achieving Sustainability with AI Technologies stands as the beacon of hope in this environmental conundrum. Edited with the intent of delivering a convergence strategy, this book comprehensively explores, transforms, and develops technological systems tailored to emerging technologies in society. Targeted at academic scholars, the book encapsulates a groundbreaking approach to the energy crisis by unraveling the potential of Green Computing. It serves as a pivotal guide, offering insights into sustainable cloud computing, harnessing artificial intelligence and machine learning for sustainability, navigating sustainable wireless systems and networks, and pioneering Green IoT and Edge-AI. Each chapter provides a profound exploration of solutions that bridge the gap between technological advancements and sustainable practices.

As nations grapple with the repercussions of energy-intensive industrial growth, **Achieving Sustainability with AI Technologies** emerges as an indispensable solution. This book is not merely a collection of academic discussions; it is a roadmap toward a greener, more sustainable future. By offering a strategic convergence of technology and environmental consciousness, it empowers scholars and researchers to contribute actively to the paradigm shift needed for our planet's survival.
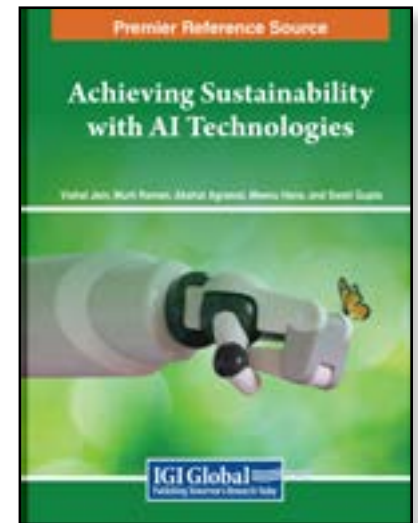
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Topics Covered:

- 5G Networks
- AI and 5G Convergence
- Artificial Intelligence
- Battery Management
- Big Data Analysis
- Digital Transformation
- Eco-Friendly Cities
- Energy Generation
- Green IoT
- Machine Learning
- Security and Privacy
- Smart Cities
- Sustainable Development
- Sustainable Emerging Technologies
- Wireless Networks

Subject: Computer Science & Information Technology

Classification: Edited Reference

Readership Level: Advanced-Academic Level (Research Recommended)

Research Suitable for: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners