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Advancing Innovation in Smart Systems, Energy, Materials, and Manufacturing: Unleashing the Potential of IoT, AI and Edge Intelligence



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Call for Chapters

Advancing Innovation in Smart Systems, Energy, Materials, and Manufacturing: Unleashing the Potential of IoT, AI, and Edge Intelligence

Aims and Scope:

This book aims to explore and showcase the cutting-edge advancements and transformative potential within the realms of Smart Systems, Energy, Materials, and Manufacturing. Focused on harnessing the power of the Internet of Things (IoT), Artificial Intelligence (AI), and Edge Intelligence, the book aims to comprehensively understand how these technologies synergize to drive innovation across various industries. From optimizing energy systems to revolutionizing manufacturing processes, the goal is to unravel the possibilities and challenges associated with this integration, offering insights that pave the way for the next generation of advancements. The scope of this book encompasses a multidisciplinary exploration of smart technologies, delving into their applications and impact on diverse sectors. Chapters will explore integrating IoT, AI, and Edge Intelligence to propel innovation in energy efficiency, material science, and advanced manufacturing. The scope extends to real-world case studies, emerging trends, and prospects, providing a holistic view of the potential unleashed by these technologies. The book aims to contribute to the discourse on shaping a more intelligent and efficient future across these vital domains by examining the interconnectedness of smart systems, energy solutions, material advancements, and manufacturing processes

List of Topics:

- Revolutionizing Smart Systems: A Comprehensive Exploration
- Energizing the Future: Innovations in Sustainable Energy
- Materials of Tomorrow: Unveiling Novel Advances
- Manufacturing in the Digital Age: A Paradigm Shift with IoT and AI
- Unleashing Intelligence at the Edge: Transformative Insights into Edge Computing
- Synergies of IoT and AI: A Holistic Approach to Innovation
- Smart Systems: Interconnectivity and Next-Gen Technologies
- Innovations in Energy: IoT and AI Perspectives
- Materials Redefined: Charting the Course for Future Developments
- Manufacturing Excellence: Harnessing the Power of AI and Edge Intelligence
- Strategic Integration of AI in Materials Science for Enhanced Performance
- Electrifying the Road: IoT and AI Solutions in Electric Vehicle Technology
- Energy Intelligence: IoT Solutions for Sustainable Power Systems
- Innovative Materials: Exploring AI-Enhanced Applications
- Manufacturing 4.0: Revolutionizing Production with IoT and Edge Intelligence
- IoT and AI in Smart Systems: Creating Synergies for Tomorrow's Challenges
- Beyond Smart: The Evolution of Materials in the Age of AI
- Edge Computing in Manufacturing: A New Frontier of Operational Excellence

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