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Industrial Internet of Things for Responsible Technology

SCOPE OF BOOK:

The book "Industrial Internet of Things for Responsible Technology" offers a comprehensive exploration of the intersection between IoT technologies and responsible practices across four vital dimensions. In "IoT Technologies and Innovations," the book delves into the latest advancements in IoT, encompassing hardware, software, and cutting-edge communication protocols, while also highlighting trends like edge computing, IoT security, and energy-efficient IoT devices. Moving to "IoT Applications and Industry Solutions," the book showcases real-world applications and success stories across diverse sectors such as healthcare, manufacturing, smart cities, and agriculture. In "IoT Data Analytics and AI," it addresses the vital role of data analytics and artificial intelligence in harnessing the potential of IoT, covering real-time data analysis, predictive maintenance, and data visualization. Lastly, "IoT Security and Privacy" focuses on the essential aspect of safeguarding IoT devices and data, exploring authentication, encryption, vulnerability assessment, and the ethical and regulatory considerations surrounding IoT. This book is designed to serve as a comprehensive resource for professionals, researchers, and policymakers, offering valuable insights, best practices, and responsible strategies for leveraging IoT in an increasingly connected and data-driven industrial world while prioritizing ethical, security, and privacy concerns.

TOPICS:

IoT Technologies and Innovations:
- Hardware and Sensing Technologies
- Connectivity and Communication
- Edge Computing Integration
- Software Development and Platforms
- Standards and Interoperability
- Power Efficiency and Battery Management

IoT Applications and Industry Solutions:
- Precision Farming in Agriculture
- Remote Patient Monitoring in Healthcare
- Urban IoT for Smart Cities
- Industrial IoT (IIoT) in Manufacturing
- Logistics and Transportation Solutions
- Retail and Customer Experience Enhancement

IoT Data Analytics and AI:
- Real-Time Data Analysis
- Predictive Maintenance and Anomaly Detection
- Machine Learning Models for IoT
- Edge Computing for AI in IoT
- Data Visualization and Dashboard Design
- Big Data Management for IoT

IoT Security and Privacy:
- Security Protocols and Standards
- Authentication and Authorization
- End-to-End Encryption
- Blockchain for IoT Security
- Privacy-Preserving Data Collection
- Legal and Compliance Aspects

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