

# Multidisciplinary Approach to Cyber Physical Systems and IoT Security

Part of the Advances in Information Security, Privacy, and Ethics Book Series

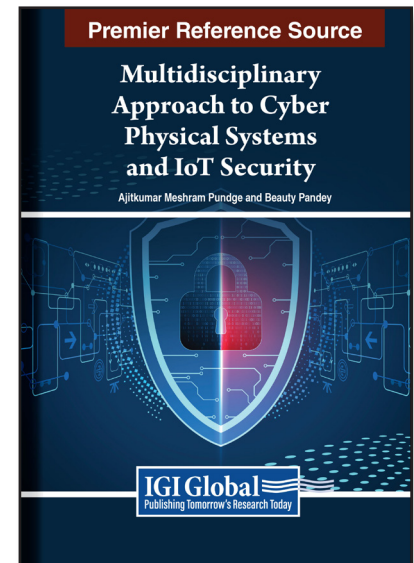
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## Description:

In the rapidly evolving landscape of technology, Cyber-Physical Systems (CPS) and the Internet of Things (IoT) have become integral parts of modern infrastructure. However, with this integration comes the challenge of securing these interconnected systems against many cyber threats. From data breaches to system manipulations, the vulnerabilities of CPS and IoT can have far-reaching consequences, impacting industries, governments, and individuals alike. Addressing these security challenges requires a deep understanding of the underlying technologies and proactive measures to mitigate risks effectively.

**Multidisciplinary Approach to Cyber Physical Systems and IoT Security** offers a holistic approach to understanding and securing CPS and IoT environments. Written by experts in the field, this book provides a comprehensive overview of the fundamental concepts, emerging threats, and cutting-edge solutions in CPS and IoT security. By delving into topics such as data privacy, network vulnerabilities, authentication issues, and regulatory compliance, this book equips readers with the knowledge and tools to protect against cyber threats effectively.

Whether you are a cybersecurity professional, IoT developer, engineer, researcher, or student, this book is an essential resource. Gain in-depth CPS and IoT security knowledge, stay up-to-date with the latest threats and solutions, and learn from real-world case studies and practical insights. With its cross-disciplinary approach and academic rigor, **Multidisciplinary Approach to Cyber Physical Systems and IoT Security** is your comprehensive guide to securing these critical systems in an interconnected world.



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**Hardcover:** \$325.00

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## Topics Covered:

- AI and Machine Learning in Security
- Authentication and Access Control in IoT Environments
- Best Practices and Recommendations for Securing Cyber-Physical Systems and IoT
- Blockchain and IoT Security
- Case Studies and Real-world Examples of CPS and IoT Security Breaches
- Cloud and Edge Computing in IoT Security
- Communication Protocols and Security in IoT
- Compliance Frameworks
- Cryptographic Techniques for IoT Security
- Data Encryption and Integrity
- Emerging Threats and Future Trends
- Foundations of Cybersecurity
- Incident Response and Recovery
- Intrusion Detection and Prevention
- IoT Device Security

**Subject:** Security & Forensics

**Classification:** Edited Reference

**Readership Level:** Advanced-Academic Level  
(Research Recommended)

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

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