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INTELLIGENT CYBER-PHYSICAL SYSTEMS SECURITY FOR INDUSTRY 4.0

Applications, Challenges
and Management

Edited by
Jyoti Sekhar Banerjee
Siddhartha Bhattacharyya
Ahmed J Obaid
Wei-Chang Yeh



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Intelligent Cyber-Physical Systems Security for Industry 4.0

Intelligent Cyber-Physical Systems Security for Industry 4.0: Applications, Challenges and Management presents new cyber-physical security findings for Industry 4.0 using emerging technologies like artificial intelligence (with machine/deep learning), data mining, and applied mathematics. All these are essential components for processing data, recognizing patterns, modeling new techniques, and improving the advantages of data science.

Features

- Presents an integrated approach with Cyber-Physical Systems, CPS security, and Industry 4.0 in one place
- Exposes the necessity of security initiatives, standards, security policies, and procedures in the context of Industry 4.0
- Suggests solutions for enhancing the protection of 5G and the internet of things (IoT) security
- Promotes how optimization or intelligent techniques envisage the role of artificial intelligence-machine/deep learning (AI-ML/DL) in cyber-physical systems security for Industry 4.0

This book is primarily aimed at graduates, researchers, and professionals working in the field of security. Executives concerned with security management, knowledge dissemination, information, and policy development for data and network security in different educational, government, and non-government organizations will also find this book useful.

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Jyoti Sekhar Banerjee would like to dedicate this book to his dear parents, wife (Arpita), and loving Son (Rishik).

Siddhartha Bhattacharyya would like to dedicate this book to his loving wife Rashni.

Ahmed J Obaid would like to dedicate this book to his family and many friends. A special feeling of gratitude to his loving wife Zainab R. Raheem, son Hamzah, daughters Fatema, Malak, Teba, and Basmalah. He also dedicates this work to the University of Kufa, Faculty of Computer Science and Mathematics.

Wei-Chang Yeh would like to dedicate this book to the team who brought this book to life and would like to thank the team for their unparalleled brilliance.



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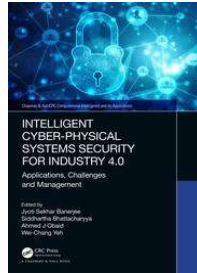
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


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