Cyber-Physical Systems and Supporting Technologies for Industrial Automation
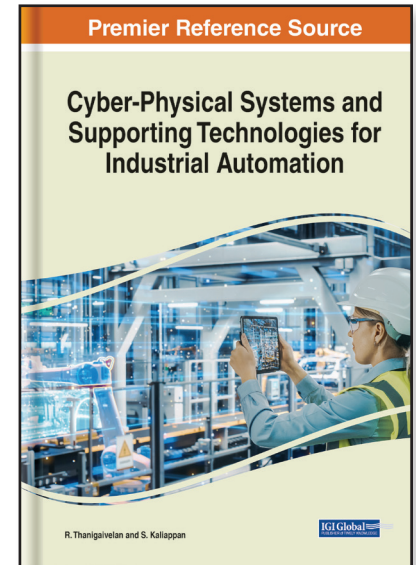
Part of the Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series

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Premier Reference Source

Cyber-Physical Systems and Supporting Technologies for Industrial Automation

R. Thanigaivelan and S. Kaliappan

Description:

The exchange of data is the most significant feature of cyber-physical systems (CPS). There are definite advantages and limitations of CPS that must be considered in order to be utilized appropriately across various fields and disciplines.

Cyber-Physical Systems and Supporting Technologies for Industrial Automation discusses the latest trends of cyber-physical systems in healthcare, manufacturing processes, energy, and the mobility industry. The book also focuses on advanced subsystems required for the communication of real-time data. Covering key topics such as supporting technologies, Industry 4.0, and manufacturing, this premier reference source is ideal for computer scientists, engineers, industry professionals, researchers, academicians, scholars, practitioners, instructors, and students.

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Topics Covered:

- Automation
- Cyber-Physical Systems
- Embedded Technology
- Energy
- High-Speed Data Transfer
- Industry 4.0
- Manufacturing
- Network Security
- Signal Transfer
- Supporting Technologies

Subject: Computer Science and Information Technology

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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