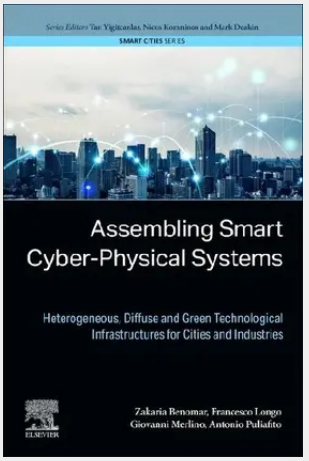
Benomar / Longo / Merlino

Assembling Smart Cyber-Physical Systems

Heterogeneous, Diffuse and Green Technological Infrastructures for Cities and Industries



119,50 €
119,50 € (zzgl. MwSt.)

vorbestellbar, Erscheinungstermin ca. November 2026

Assembling Smart Cyber-Physical Systems: Heterogeneous, Diffuse and Green Technological Infrastructures for Cities and Industries offers a comprehensive approach on how to design, implement, and use Cyber Physical Systems (CPSs)-computing systems with a strong interaction between the physical environment (equipped with sensors and actuators) and the cyber realm (the Cloud). Through a carefully structured methodological approach to systems design, readers will learn how the infrastructure continuum represents our environment, where we can move from edge computing to the Cloud, going through fog resources to set up an entire framework for services deployment and application in smart cities and industries. As dealing with complex systems has become increasingly difficult, CPSs are increasingly critical to cope with integrating software, which people are used to, with hardware, which is distributed among different domains. This book shows how to deal with such systems where there is no distinction among the different parts: computing, storage, networking, and IoT all contribute to setting up the modern processing environments, thus it is mandatory to keep them simultaneously under control.

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Artikelnummer: 9780443298370
Medium: Buch
ISBN: 978-0-443-29837-0
Verlag: Elsevier Science
Erscheinungstermin: 05.11.2026
Sprache(n): Englisch
Auflage: Erscheinungsjahr 2026
Produktform: Kartoniert
Gewicht: 449 g
Seiten: 528
Format (B x H): 152 x 229 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)