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Titolo	Cyber-Physical Systems: Modelling and Industrial Application // edited by Alla G. Kravets, Alexander A. Bolshakov, Maxim Shcherbakov
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Collana	Studies in Systems, Decision and Control, , 2198-4190 ; ; 418
Disciplina	006.22
Soggetti	Cooperating objects (Computer systems) Computational intelligence Engineering - Data processing Cyber-Physical Systems Computational Intelligence Data Engineering
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Cyber-Physical Systems Modelling -- IoT and Signal Processing -- Cyber-Physical Systems Intelligent Control -- Cyber-Physical Systems Industrial implementation -- New Materials Production for Cyber-Physical Systems.
Sommario/riassunto	This book discusses the open questions regarding the modelling of cyber-physical systems and their application in different industries. The industry needs new approaches to improve its competitiveness. The concept of cyber-physical systems supports such changes, with the need to find new modelling tools becoming a key challenge. The book contains five-section covering the following topics: cyber-physical systems modelling, IoT and signal processing, cyber-physical systems intelligent control, cyber-physical systems industrial implementation and the production of the new material for cyber-physical systems. These approaches, on the one hand, should ensure the execution of current business processes, and on the other hand, ensure a quick speed of reactions to changes. The target audience of the book are practitioners, enterprises representatives, scientists, PhD and Master

students who perform scientific research on modelling and industrial application of cyber-physical systems.
