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Titolo	Cyber-Physical Systems: Intelligent Models and Algorithms // edited by Alla G. Kravets, Alexander A. Bolshakov, Maxim Shcherbakov
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Collana	Studies in Systems, Decision and Control, , 2198-4190 ; ; 417
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 and index.
Nota di contenuto	Bio-inspired modelling -- Fuzzy models and algorithms -- Predictive modelling -- Computer Vision and Image Processing.
Sommario/riassunto	This book is devoted to intelligent models and algorithms as the core components of cyber-physical systems. The complexity of cyber-physical systems developing and deploying requires new approaches to its modelling and design. Presents results in the field of modelling technologies that leverage the exploitation of artificial intelligence, including artificial general intelligence (AGI) and weak artificial intelligence. Provides scientific, practical, and methodological approaches based on bio-inspired methods, fuzzy models and algorithms, predictive modelling, computer vision and image processing. The target audience of the book are practitioners, enterprises representatives, scientists, PhD and Master students who perform scientific research or applications of intelligent models and algorithms in cyber-physical systems for various domains.