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Titolo	Innovations in Intelligent Machines-5 : Computational Intelligence in Control Systems Engineering // edited by Valentina Emilia Balas, Petia Koprinkova-Hristova, Lakhmi C. Jain
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Collana	Studies in Computational Intelligence, , 1860-949X ; ; 561
Disciplina	006.3
Soggetti	Computational intelligence Control engineering Artificial intelligence Computational Intelligence Control and Systems Theory Artificial Intelligence
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Decentralized Fuzzy-Neural Identification and I-Term Adaptive Control of Distributed Parameter Bioprocess Plan -- Error Tolerant Predictive Control based on Recurrent Neural Models -- Advances in Multiple Models based Adaptive Switching Control: from Conventional to Intelligent approaches -- A Computational Intelligence Approach to Software Component Repository Management -- A Soft Computing Approach to Model Human Factors in Air Warfare Simulation System -- Application of Gaussian Processes to the Modelling and Control in Process Engineering -- Computational Intelligence Techniques for Chemical Process Control -- Application of Swarm Intelligence in Fuzzy Entropy based Image Segmentation.
Sommario/riassunto	This research monograph presents selected areas of applications in the field of control systems engineering using computational intelligence methodologies. A number of applications and case studies are introduced. These methodologies are increasing used in many applications of our daily lives. Approaches include, fuzzy-neural multi

model for decentralized identification, model predictive control based on time dependent recurrent neural network development of cognitive systems, developments in the field of Intelligent Multiple Models based Adaptive Switching Control, designing military training simulators using modelling, simulation, and analysis for operational analyses and training, methods for modelling of systems based on the application of Gaussian processes, computational intelligence techniques for process control and image segmentation technique based on modified particle swarm optimized-fuzzy entropy.
