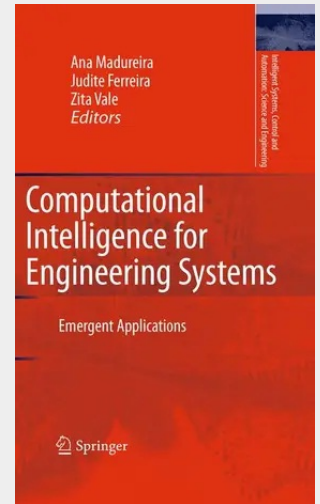


Computational Intelligence for Engineering Systems

Emergent Applications

Computational Intelligence for Engineering Systems provides an overview and original analysis of new developments and advances in several areas of computational intelligence. Computational Intelligence have become the road-map for engineers to develop and analyze novel techniques to solve problems in basic sciences (such as physics, chemistry and biology) and engineering, environmental, life and social sciences. The contributions are written by international experts, who provide up-to-date aspects of the topics discussed and present recent, original insights into their own experience in these fields. The authors also include methods that apply to diverse fields such as manufacturing, tourism, power systems, computer science, robotics, chemistry, and biology. Topics include: Simulation and evolution of real and artificial life forms; Self-organization; Models of communication and social behaviors; Emergent collective behaviors and swarm intelligence; Adaptive, complex and biologically inspired systems; Power Systems; Web-based Applications; Knowledge discovery; Intelligent Tutoring Systems; Decision support Systems; Intelligent Tutoring Systems.

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106,99 €

99,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9789400734449

Medium: Buch

ISBN: 978-94-007-3444-9

Verlag: Springer

Erscheinungstermin: 27.01.2013

Sprache(n): Englisch

Auflage: 1. Auflage 2013

Serie: Intelligent Systems, Control and Automation: Science and Engineering

Produktform: Kartoniert

Gewicht: 318 g

Seiten: 196

Format (B x H): 155 x 235 mm

