Smart Modeling and Simulation for Complex Systems [Practice and Theory /

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Springer Japan,
2015

Monografía

This book aims to provide a description of these new Artificial Intelligence technologies and approaches to the modeling and simulation of complex systems, as well as an overview of the latest scientific efforts in this field such as the platforms and/or the software tools for smart modeling and simulating complex systems. These tasks are difficult to accomplish using traditional computational approaches due to the complex relationships of components and distributed features of resources, as well as the dynamic work environments. In order to effectively model the complex systems, intelligent technologies such as multi-agent systems and smart grids are employed to model and simulate the complex systems in the areas of ecosystem, social and economic organization, web-based grid service, transportation systems, power systems and evacuation systems

Título: Smart Modeling and Simulation for Complex Systems Recurso electrónico] :] Practice and Theory edited by Quan Bai, Fenghui Ren, Minjie Zhang, Takayuki Ito, Xijin Tang

Editorial: Tokyo Springer Japan 2015

Descripción física: VIII, 149 p. 59 il., 30 il. col

Mención de serie: Studies in Computational Intelligence 564 Springer eBooks

Detalles del sistema: Forma de acceso: World Wide Web

ISBN: 9784431552093

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Entidades: SpringerLink

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