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Surekha P.**

Computational Intelligence Paradigms for Optimization Problems Using MATLAB®/SIMULINK®



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Computational Intelligence Paradigms Optimization Simulinkebook

Slawomir Koziel, Xin-She Yang



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Computational Intelligence and Soft Computing in Engineering Saifullah Khalid, 2017-09-13 Although computational intelligence and soft computing are both well known fields using computational intelligence and soft computing in conjunction is an emerging concept This combination can effectively be used in practical areas of various fields of research Applied Computational Intelligence and Soft Computing in Engineering is an essential reference work featuring the latest scholarly research on the concepts paradigms and algorithms of computational intelligence and its constituent methodologies such as evolutionary computation neural networks and fuzzy logic Including coverage on a broad range of topics and perspectives such as cloud computing sampling in optimization and swarm intelligence this publication is ideally designed for engineers academicians technology developers researchers and students seeking current research on the benefits of applying computation intelligence techniques to engineering and technology Recent Advances on Hybrid Approaches for Designing Intelligent Systems Oscar Castillo, Patricia Melin, Witold Pedrycz, Janusz Kacprzyk, 2014-04-10 This book describes recent advances on hybrid intelligent systems using soft computing techniques for diverse areas of application such as intelligent control and robotics pattern recognition time series prediction and optimization complex problems Soft Computing SC consists of several intelligent computing paradigms including fuzzy logic neural networks and bio inspired optimization algorithms which can be used to produce powerful hybrid intelligent systems The book is organized in five main parts which contain a group of papers around a similar subject The first part consists of papers with the main theme of type 2 fuzzy logic which basically consists of papers that propose new models and applications for type 2 fuzzy systems The second part contains papers with the main theme of bio inspired optimization algorithms which are basically papers using nature inspired techniques to achieve optimization of complex optimization problems in diverse areas of application The third part contains papers that deal with new models and applications of neural networks in real world problems The fourth part contains papers with the theme of intelligent optimization methods which basically consider the proposal of new methods of optimization to solve complex real world optimization problems The fifth part contains papers with the theme of evolutionary methods and intelligent computing which are papers considering soft computing methods for applications related to diverse areas such as natural language processing recommending systems and optimization

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