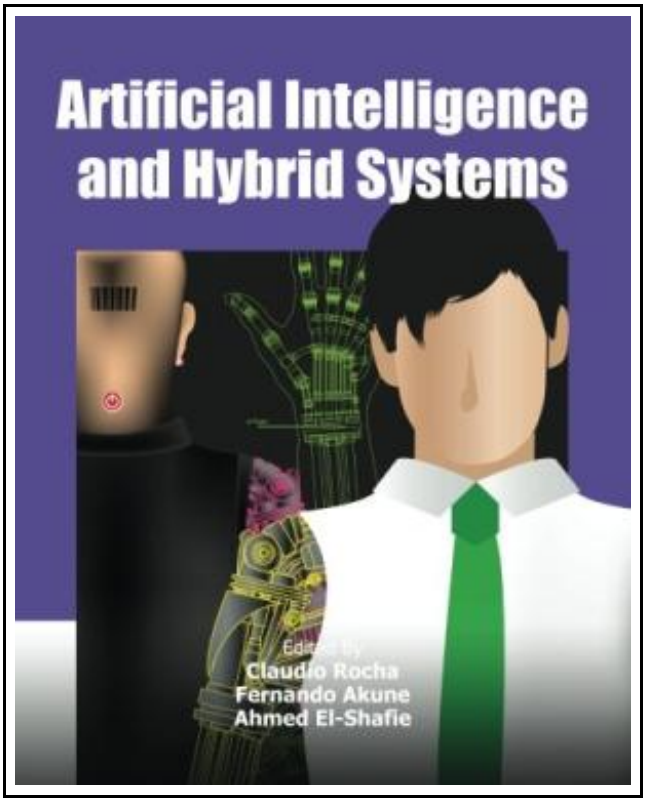
Artificial Intelligence and Hybrid Systems



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ARTIFICIAL INTELLIGENCE AND HYBRID SYSTEMS

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Createspace, United States, 2013. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book ***** Print on Demand *****.The use of artificial intelligence and hybrid systems has increased dramatically due to their ability in handling real world problems involving uncertainty, vagueness and high complexity. The development of these systems has attracted the interest of the Artificial Intelligence community and established as a promising field of research. In order to present the ideas and practices of the hybridization process of intelligent systems, in this book, we included some recent and interesting studies on this topic. Chapter 1 thoroughly analyzes the behaviors of perceptron, including solution space for every possible patterns and convergence trajectories toward solutions, as well as briefly discusses the behaviors of multiple perceptrons. In Chapter 2, accurate as well as efficient non-invasive computational intelligence approaches (different artificial neural network models and a Sugeno-type fuzzy logic inference system) are implemented for the classification of two-phase flow in boiling water reactors. Chapter 3 contains a nice compilation of indifference-zone selection procedures as they apply to reliability analysis; many of those results come from the authors own research. Chapter 4 discusses the software project design with the implementation of product line concepts to meet the customers demands for the production of high quality software applications in shortest possible time, within low budget and using less number of resources. Chapter 5 proposes integration of deterministic and probabilistic for improvement of human reliability analysis. The operator action success criteria time windows needed for human reliability analysis were determined through deterministic safety analysis. Chapter 6 presents a scheme to produce Network Anomaly Detection models based on Evolutionary Computation. The models are Hidden Markov Models, produced automatically, with no human intervention. Chapter 7 proposes an integrated online system which ranks the relational...

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