Artificial Intelligence and Hybrid Systems

By Claudio Rocha, Fernando Akune, Ahmed El-Shafie

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...

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