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An Introduction to Computational Intelligence

The chapter provides an introduction to computational intelligence. It begins with a thorough review of the underlying principles of artificial intelligence, and examines the scope of computational intelligence in overcoming the limitations of the traditional AI. The chapter then briefly introduces various tools of computational intelligence such as fuzzy logic, neural network, genetic algorithm, belief network, chaos theory, computational learning theory and artificial life. The synergistic behavior of the above tools on many occasions far exceeds their individual performance. A discussion on the synergistic behavior of neuro-fuzzy, neuro-GA, neuro-belief and fuzzy-belief network models is also included in the chapter. A list of tutorial problems is appended at the end of the chapter to build up students' ability in handling real world problems.

1.1 Artificial Intelligence- a Brief Review

Artificial intelligence (AI) aims at emulating human intelligence on machines so as to enable these act and think like the human beings. It is a vast discipline of

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