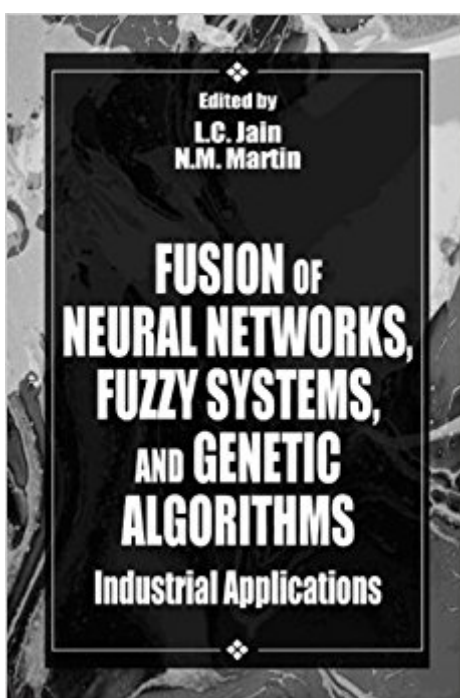


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Fusion Of Neural Networks, Fuzzy Systems And Genetic Algorithms: Industrial Applications (International Series On Computational Intelligence)



Synopsis

Artificial neural networks can mimic the biological information-processing mechanism in - a very limited sense. Fuzzy logic provides a basis for representing uncertain and imprecise knowledge and forms a basis for human reasoning. Neural networks display genuine promise in solving problems, but a definitive theoretical basis does not yet exist for their design. Fusion of Neural Networks, Fuzzy Systems and Genetic Algorithms integrates neural net, fuzzy system, and evolutionary computing in system design that enables its readers to handle complexity - offsetting the demerits of one paradigm by the merits of another. This book presents specific projects where fusion techniques have been applied. The chapters start with the design of a new fuzzy-neural controller. Remaining chapters discuss the application of expert systems, neural networks, fuzzy control, and evolutionary computing techniques in modern engineering systems. These specific applications include: direct frequency converter, electro-hydraulic systems, motor control, toaster control, speech recognition, vehicle routing, fault diagnosis, Asynchronous Transfer Mode (ATM) communications network, telephones for hard-of-hearing people, control of gas turbine aero-engine, telecommunications systems design. Fusion of Neural Networks, Fuzzy Systems and Genetic Algorithms covers the spectrum of applications - comprehensively demonstrating the advantages of fusion techniques in industrial applications.

Book Information

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Customer Reviews

This book is a survey of other people's work, it doesn't go into depth and there are no implementations even for the purpose of illustration. The authors cover a lot of ground but they are just collating research done by other people for you. I am amazed that they believe that this is a \$150 book. The subject matter is interesting to me so I will give it 3 stars, but if I had been able to look at it in a book store I would have never paid \$150 or even \$75 for it.

Looking at the content of first 14 pages it seems that this book is going to be a very good reference for the researchers as well as beginners of the Evolutionary computing in Control. The conceptual part is also good as it can help beginners to get in to cognitive approach to the problem as traditional methods are not useful in real time application and can now only be used for comparison. Very Good Approach from the Editors.

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