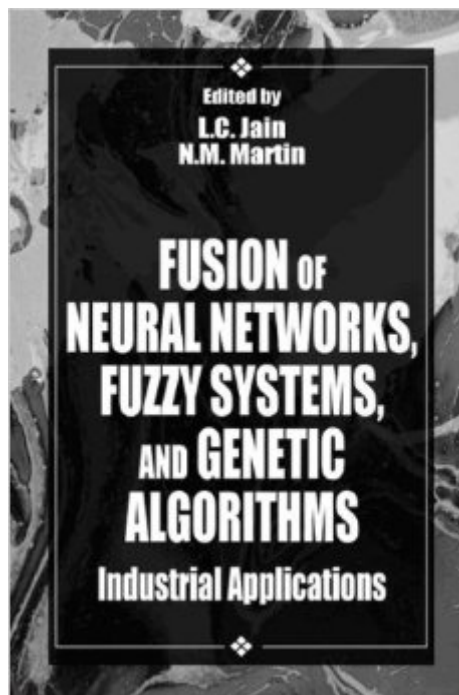


The book was found

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

Series: International Series on Computational Intelligence (Book 4)

Hardcover: 368 pages

Publisher: CRC Press; 1 edition (November 17, 1998)

Language: English

ISBN-10: 0849398045

ISBN-13: 978-0849398049

Product Dimensions: 1 x 6.5 x 9.5 inches

Shipping Weight: 1.5 pounds (View shipping rates and policies)

Average Customer Review: 3.5 out of 5 stars [See all reviews](#) (2 customer reviews)

Best Sellers Rank: #2,083,575 in Books (See Top 100 in Books) #30 in [Books > Computers & Technology > Programming > Algorithms > Genetic](#) #215 in [Books > Computers & Technology > Computer Science > AI & Machine Learning > Neural Networks](#) #237 in [Books > Science & Math > Mathematics > Pure Mathematics > Set Theory](#)

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 used for comparison. Very Good Approach from the Editors.

[Download to continue reading...](#)

Fusion of Neural Networks, Fuzzy Systems and Genetic Algorithms: Industrial Applications (International Series on Computational Intelligence) Fuzzy Fuzzy Fuzzy! (Boynnton Board Books) Genetic Algorithms and Genetic Programming in Computational Finance Deep Learning: Natural Language Processing in Python with Recursive Neural Networks: Recursive Neural (Tensor) Networks in Theano (Deep Learning and Natural Language Processing Book 3) Neural Network Training Using Genetic Algorithms (Series in Machine Perception and Artificial Intelligence) The Design of Innovation: Lessons from and for Competent Genetic Algorithms (Genetic Algorithms and Evolutionary Computation) Neuro-Fuzzy and Soft Computing: A Computational Approach to Learning and Machine Intelligence Neural Smithing: Supervised Learning in Feedforward Artificial Neural Networks (MIT Press) Soft Computing: Integrating Evolutionary, Neural, and Fuzzy Systems Fuzzy C-Means Clustering for Clinical Knowledge Discovery in Databases: Optimizing FCM using Genetic Algorithm for use by Medical Experts in Diagnostic Systems and Data Integration with SchemaSQL Mathematics of Fuzzy Sets and Fuzzy Logic (Studies in Fuzziness and Soft Computing) Artificial Intelligence for Humans, Volume 3: Deep Learning and Neural Networks Bio-inspired Algorithms for the Vehicle Routing Problem (Studies in Computational Intelligence) Gene Expression Programming: Mathematical Modeling by an Artificial Intelligence (Studies in Computational Intelligence) Hard Real-Time Computing Systems: Predictable Scheduling Algorithms and Applications (Real-Time Systems Series) Elements of Artificial Neural Networks (Complex Adaptive Systems) Java: Artificial Intelligence; Made Easy, w/ Java Programming; Learn to Create your * Problem Solving * Algorithms! TODAY! w/ Machine Learning & Data Structures (Artificial Intelligence Series) Javascript Artificial Intelligence: Made Easy, w/ Essential

Programming; Create your * Problem Solving * Algorithms! TODAY! w/ Machine Learning & Data Structures (Artificial Intelligence Series) An Introduction to Genetic Algorithms (Complex Adaptive Systems) Information Processing with Evolutionary Algorithms: From Industrial Applications to Academic Speculations (Advanced Information and Knowledge Processing)

[Dmca](#)