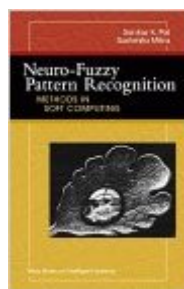# Neuro-Fuzzy Pattern Recognition: Methods In Soft Computing

Synopsis

The neuro-fuzzy approach to pattern recognition-a unique overview Recent years have seen a surge of interest in neuro-fuzzy computing, which combines fuzzy logic, neural networks, and soft computing techniques. This book focuses on the application of this new tool to the rapidly evolving area of pattern recognition. Written by two leaders in neural networks and soft computing research, this landmark work presents a unified, comprehensive treatment of the state of the art in the field. The authors consolidate a wealth of information previously cattered in disparate articles, journals, and edited volumes, explaining both the theory of neuro-fuzzy computing and the latest methodologies for performing different pattern recognition tasks in the neuro-fuzzy network-classification, feature evaluation, rule generation, knowledge extraction, and hybridization. Special emphasis is given to the integration of neuro-fuzzy methods with rough sets and genetic algorithms (GAs) to ensure more efficient recognition systems. Clear, concise, and fully referenced, Neuro-Fuzzy Pattern Recognition features extensive examples and highlights key applications in speech, machine learning, medicine, and forensic science. It is an extremely useful resource for scientists and engineers in laboratories and industry as well as for anyone seeking up-to-date information on the advantages of neuro-fuzzy pattern recognition in new computer technologies.

Book Information

Series: Wiley Series on Intelligent Systems (Book 4)

Hardcover: 378 pages

Publisher: Wiley-Interscience; 1 edition (September 10, 1999)

Language: English

ISBN-10: 0471348449

ISBN-13: 978-0471348443

Product Dimensions: 6.5 x 1 x 9.4 inches

Shipping Weight: 1.6 pounds

Average Customer Review: 5.0 out of 5 stars See all reviews (1 customer review)

Best Sellers Rank: #2,357,916 in Books (See Top 100 in Books)   #57 in Books > Computers & Technology > Software > Voice Recognition   #207 in Books > Computers & Technology > Computer Science > Cybernetics   #240 in Books > Computers & Technology > Computer Science > AI & Machine Learning > Neural Networks

Customer Reviews

I have never read about Neuro-Fuzzy Pattern Recognition and I was very glad to see this book's

first chapter explain, in detail, the theory behind the subject and give good examples.What really makes this book great is that it doesn't rely just on theory and math, but provides actual implimentable examples by giving an example (the ones explaining finger prints are great), showing you various problems you will have, and how to get around them.If you want to code a program that uses fuzzy pattern recog this book will be your guide as it takes you from 0 to 100 and never lets you down.

Neuro-Fuzzy Pattern Recognition: Methods in Soft Computing Fuzzy Sets and Fuzzy Logic: Theory and Applications My Yonanas Frozen Treat Maker Recipe Book: 101 Delicious Healthy, Vegetarian, Dairy & Gluten-Free, Soft Serve Fruit Desserts For Your Elite or Deluxe Machine (Frozen Desserts & Soft Serve Makers) Soft Tissue Injuries and Hard Ball Tactics: Dealing With Soft Tissue Injuires and Insurance Companies Electrostatic Effects in Soft Matter and Biophysics: Proceedings of the NATO Advanced Research Workshop on Electrostatic Effects in Soft Matter and ... 1-13 October 2000 (Nato Science Series II:) Machine Learning: An Algorithmic Perspective, Second Edition (Chapman & Hall/Crc Machine Learning & Pattern Recognition) Selected Papers on Optical Pattern Recognition (SPIE Milestone Series Vol. MS156) Markov Models for Pattern Recognition: From Theory to Applications Improve Your Chess Pattern Recognition: Key Moves and Motifs in the Middlegame Train Your Chess Pattern Recognition: More Key Moves & Motives in the Middlegame Practical Hepatic Pathology: A Diagnostic Approach: A Volume in the Pattern Recognition Series, Expert Consult: Online and Print, 1e Practical Hepatic Pathology: A Diagnostic Approach: A Volume in the Pattern Recognition Series, 2e Virus Infections of Rodents and Lagomorphs: Virus Infections of Vertebrates Series, 1e (Machine Intelligence and Pattern Recognition) HERE COMES THE GROOM! Crocheted Doll Pattern. A vintage 1951 crochet pattern. Text-to-Speech enabled. Available for Download to Kindle DX, Kindle for PC, ... groom, bridegroom, bridal shower gift) The Collector's Encyclopedia of Pattern Glass: A Pattern Guide to Early American Pressed Glass Woodworker's Pattern Library: Alphabets & Numbers (The Woodworker's Pattern Library) Fuzzy Logic: Intelligence, Control, and Information Fuzzy Logic for the Management of Uncertainty Trading on the Edge: Neural, Genetic, and Fuzzy Systems for Chaotic Financial Markets GPU Computing Gems Emerald Edition (Applications of GPU Computing Series)