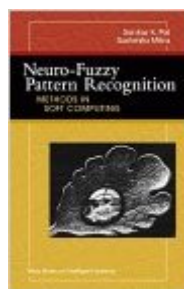


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# Neuro-Fuzzy Pattern Recognition: Methods In Soft Computing



## 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

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## 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 implementable 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.

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