

Contents

Preface		
	<i>H. Bunke and A. Kandel</i>	vii
Neuro-Fuzzy Systems		
Chapter 1	Fuzzification of Neural Networks for Classification Problems <i>H. Ishibuchi and M. Nii</i>	1
Neural Networks for Structural Pattern Recognition		
Chapter 2	Adaptive Graphic Pattern Recognition: Foundations and Perspectives <i>G. Adorni, S. Cagnoni and M. Gori</i>	33
Chapter 3	Adaptive Self-Organizing Map in the Graph Domain <i>S. Günter and H. Bunke</i>	61
Clustering for Hybrid Systems		
Chapter 4	From Numbers to Information Granules: A Study in Unsupervised Learning and Feature Analysis <i>A. Bargiela and W. Pedrycz</i>	75
Combining Neural Networks and Hidden Markov Models		
Chapter 5	Combination of Hidden Markov Models and Neural Networks for Hybrid Statistical Pattern Recognition <i>G. Rigoll</i>	113
Chapter 6	From Character to Sentences: A Hybrid Neuro-Markovian System for On-Line Handwriting Recognition <i>T. Artières, P. Gallinari, H. Li, S. Marukatat and B. Dorizzi</i>	145

Multiple Classifier Systems

- Chapter 7 Multiple Classifier Combination: Lessons and Next Steps
T. K. Ho 171
- Chapter 8 Design of Multiple Classifier Systems
F. Roli and G. Giacinto 199
- Chapter 9 Fusing Neural Networks Through Fuzzy Integration
A. Verikas, A. Lipnickas, M. Bacauskiene and K. Malmqvist 227

Applications of Hybrid Systems

- Chapter 10 Hybrid Data Mining Methods in Image Processing
A. Klose and R. Kruse 253
- Chapter 11 Robust Fingerprint Identification Based on Hybrid Pattern Recognition Methods
D.-W. Jung and R.-H. Park 275
- Chapter 12 Text Categorization Using Learned Document Features
M. Junker, A. Abecker and A. Dengel 301