## Contents

1. The Many Faces of a Kohonen Map  
   *V. Lemaire and F. Clérot*  
   Page 1

2. Profiling Network Applications with Fuzzy C-means and Self-Organizing Maps  
   *Timo Lampinen, Mikko Laurikkala, Hannu Koivisto and Tapani Honkanen*  
   Page 15

3. Monitoring Shift and Movement in Data using Dynamic Feature Maps  
   *Damminda Alahakoon*  
   Page 29

4. Serendipity in Text and Audio Information Spaces: Organizing and Exploring High-Dimensional Data with the Growing Hierarchical Self-Organizing Map  
   *Michael Dittenbach, Dieter Merkl and Andreas Rauber*  
   Page 43

5. D-GridMST: Clustering Large Distributed Spatial Databases  
   *Ji Zhang and Han Liu*  
   Page 61

6. A Probabilistic Approach to Mining Fuzzy Frequent Patterns  
   *Attila Gyenesi and Jukka Teuhola*  
   Page 73

7. Identifying Interesting Patterns in Multidatabases  
   *Chengqi Zhang, Jeffrey Xu Yu and Shichao Zhang*  
   Page 91

8. Comparison Between Five Classifiers for Automatic Scoring of Human Sleep Recordings  
   *Guillaume Becq, Sylvie Charbonnier, Florian Chapotot, Alain Buguet, Lionel Bourdon and Pierre Baconnier*  
   Page 113
9 Prioritized Fuzzy Information Fusion
for Handling Multi-Criteria Fuzzy Decision-Making Problems
Shi-Jay Chen and Shyi-Ming Chen .......................... 129

10 Using Boosting Techniques to Improve the Performance
of Fuzzy Classification Systems
Tomoharu Nakashima and Hisao Ishibuchi .......................... 147

11 P-Expert: Implementation and Deployment
of Large Scale Fuzzy Expert Advisory System
Andrew Chiu and Xinghuo Yu .......................... 159

12 Data Mining and User Profiling
for an E-Commerce System
Ken McGarry, Andrew Martin and Dale Addison .......................... 175

13 Soft Computing Models
for Network Intrusion Detection Systems
Ajith Abraham and Ravi Jain .......................... 191

14 Use of Fuzzy Feature Descriptions
to Recognize Handwritten Alphanumeric Characters

15 Soft Computing Paradigms
for Web Access Pattern Analysis
Xiaozhe Wang, Ajith Abraham and Kate A. Smith .......................... 233

16 Discovery of Fuzzy Multiple-Level Web Browsing Patterns
Shyue-Liang Wang, Wei-Shuo Lo, and Tsung-Pei Hong .......................... 251

17 Ontology-based Fuzzy Decision Agent and Its Application
to Meeting Scheduling Support System
Chang-Shing Lee, Hei-Chia Wang, and Meng-Ju Chang .......................... 267

18 A Longitudinal Comparison of Supervised
and Unsupervised Learning Approaches to Iso-Resource
Grouping for Acute Healthcare in Australia
Eu-Gene Siew, Kate A. Smith, Leonid Churilov, and Jeff Wassertheil .......................... 283

19 Data Mining of Missing Persons Data
K. Blackmore, T. Bossomaier, S. Foy and D. Thomson .......................... 305

20 Centralised Strategies for Cluster Formation
in Sensor Networks
Malka N. Halgamuge, Siddeswara M. Guru and Andrew Jennings .......................... 315
21 Adaptive Fuzzy Zone Routing for Wireless Ad Hoc Networks
Tawan Thongpook .......................................................... 333

22 A New Approach to Building Fuzzy Classifications in Sociological Research with Survey Data
Yu. N. Blagoveschensky and G.A. Satarov ............................ 349
Classification and Clustering for Knowledge Discovery
Halgamuge, S.K.; Wang, L. (Eds.)
2005, XII, 356 p., Hardcover
ISBN: 978-3-540-26073-8