

Список литературы

- [1] A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, editors, *Soft Computing Systems - Design, Management and Applications*, volume 87 of *Frontiers in Artificial Intelligence and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [2] E. OJA, Independent Component Analysis, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, p. 3, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [3] B. DE BAETS, Fuzzy Set Theory - a Playground for Mathematicians, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, p. 4, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [4] O. KHATIB, Robots for the Human and Haptic Interaction, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, p. 5, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [5] W. B. LANGDON, A Hybrid Genetic Programming Neural Network Classifier for Use in Drug Discovery, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, p. 6, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [6] J. KACPRZYK and S. ZADRONY, Protoforms of Linguistic Data Summaries : Towards More General Natural-Language-Based Data Mining Tools, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, p. 7, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [7] A. H. SUNG, Role of Soft Computing in Internet Security, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, p. 8, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [8] Y. DOTE, Neuro-Fuzzy Control, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 9–10, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [9] J. C. LETELIER, G. MARTIN, J. MPODOZIS, and J. S. ANDRADE, Anticipatory Computing with Autopoietic and (M R)Systems, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, p. 11, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [10] R. AMALI, J. VINNEY, S. NOROOZI, and V. PATEL, The Use of a Back Propagation Neural Network to Determine the Load Distribution on a Component, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 15–20, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [11] S. LEE, D. PALMER-BROWN, J. TEPPER, and C. ROADKNIGHT, Performance-guided Neural Network for Rapidly Self-Organising Active Network Management, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 21–31, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [12] F. FDEZ-RIVEROLA and J. CORCHADO, An Automated Hybrid Reasoning System for Forecasting, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 31–41, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [13] G. BOLOGNA, Rule Extraction from Bagged Neural Networks, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 42–53, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [14] R. SAEGUSA and S. HASHIMOTO, Nonlinear Principal Component Analysis to Preserve the Order of Principal Components, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 54–63, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [15] T. MINAMI and T. INUI, A Neural Network Model of Rule-guided Behavior, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 64–73, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [16] R. C. PRUDÊNCIO and T. LUDERMIR, Selection of Models for Time Series Prediction via Meta-Learning, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 74–83, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [17] W. J. K. CIOS and L. S. W. SWIERCZ, Spiking Neurons in Clustering of Diabetic Retinopathy Data, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 84–94, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [18] B. SHEKAR and R. NATARAJAN, A Fuzzy Relatedness Measure for Determining Interestingness of Association Rules, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 95–104, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [19] E. RAKUS-ANDERSSON and L. ZAKRZEWSKI, Factor Analysis with Qualitative Factors as Fuzzy Numbers, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 105–114, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [20] J. ASTRAIN, J. GARITAGOITIA, J. VILLADANGOS, F. FARIÑA, and A. CÓRDOBA, An Imperfect String Matching Experience Using Deformed Fuzzy Automata, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 115–123, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [21] D. MASTROPASQUA, N. MOSCA, and F. ZAMBETTA, An XML-based specification of fuzzy logic controllers, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 124–131, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [22] H. ISHIBUCHI and T. YAMAMOTO, Comparison of Fuzzy Rule Selection Criteria for Classification Problems, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and

- Applications Vol. 87, pp. 132–141, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [23] M. D. COCK, Linguistic Hedges: a Quantifier Based Approach, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 142–152, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [24] C. FERREIRA, Analyzing the Founder Effect in Simulated Evolutionary Processes Using Gene Expression Programming, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 153–162, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [25] H. ISHIBUCHI and T. YOSHIDA, Hybrid Evolutionary Multi-Objective Optimization Algorithms, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 163–172, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [26] K. WIESE and E. GLEN, A Permutation Based Genetic Algorithm for RNA Secondary Structure Prediction, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 173–182, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [27] S. HIRCHE, I. SANTIBANEZ-KOREF, and I. BOBLAN, Design of Strong Causal Fitness Functions, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 183–192, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [28] T. BEKER and L. HADANY, Noise and Elitism in Evolutionary Computation, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 193–203, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [29] J. LETELIER, G. MARÍN, J. MPODOZIS, and J. SOTO-ANDRADE, Anticipatory Computing with Autopoietic and (M,R) Systems, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 205–211, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [30] M. ASSERAF, An Efficient Algorithm in Optimal Partition Problem for Trees Induction, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 212–220, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [31] G. WEIDL, A. MADSEN, and E. DAHLQUIST, Condition Monitoring, Root Cause Analysis and Decision Support on Urgency of Actions, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 221–230, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [32] C. ZANNI, M. L. GOC, and C. FRYDMAN, Towards a Unique Framework to Describe and Compare Diagnosis Approaches, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 231–240, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [33] J. JEDRZEJOWICZ and P. JEDRZEJOWICZ, Experimental Evaluation of the PLA-Based Permutation-Scheduling, in *Soft Computing Systems - Design, Management and Applications*,

- edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 241–250, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [34] G. E. A. P. A. BATISTA and M. MONARD, A Study of K-Nearest Neighbour as an Imputation Method, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 251–260, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [35] P. ZEGERS and M. SUNDARESHAN, Determining The Degree of Generalization Using An Incremental Learning Algorithm, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 261–270, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [36] J. KNOWLES and D. CORNE, Towards Landscape Analyses to Inform the Design of Hybrid Local Search for the Multiobjective Quadratic Assignment Problem, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 271–279, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [37] I. GOKCEN, J. PENG, and B. BUCKLES, Active Learning Using One-class Classification, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 280–289, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [38] P. DIXON, D. CORNE, and M. OATES, Enhancing Real-World Applicability by Providing Confidence-in-Prediction in the XCS Classifier System, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 290–299, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [39] N. KAWAMAE, Latent Semantic Indexing Based on Factor Analysis, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 300–308, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [40] C. VEENHUIS and M. KÖPPEN, Document Oriented Modeling of Cellular Automata, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 309–320, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [41] A. S. ALI and A. ABRAHAM, An Empirical Comparison of Kernel Selection for Support Vector Machines, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 321–330, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [42] Z. LIU and Y. XU, Adaptive Support Vector Classifications, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 331–340, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [43] B. RIBEIRO and P. CARVALHO, Mercer’s Kernel Based Learning for Fault Detection, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 341–350, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [44] S. MUKKAMALA and A. SUNG, Performance Based Feature Identification for Intrusion Detection Using Support Vector Machines, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 351–364, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [45] I. MORA-JIMÉNEZ, A. LYHYAOUI, J. ARENAS-GARCÍA, A. NAVIA-VÁZQUEZ, and A. FIGUEIRAS-VIDAL, A Trainable Classifier via k Nearest Neighbors, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 365–373, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [46] M. LENIC and P. KOKOL, Combining Classifiers with Multimethod Approach, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 374–383, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [47] C. MATURANA and R. WEBER, Feature Extraction by Distance Neural Network in Classification Tasks, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 384–393, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [48] S. C. D. PARTRIDGE, Revealing Feature Interactions in Classification Tasks, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 394–403, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [49] S. ZEMKE, Ensembles in Practice: Predication, Estimation, Multi-Feature and Noisy Data, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 404–416, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [50] J. KACPRZYK and S. ZADROZNY, Protoforms of Linguistic Data Summaries: Towards More General Natural-Language-Based Data Mining Tools, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 417–425, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [51] J. AGUILAR and N. PEROZO, Sparse Distributed Memory with Adaptive Threshold, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 426–432, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [52] D. SHARMA, UniLR: An Automated Fuzzy Legal Reasoner, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 433–441, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [53] W. ZIARKO, Set Approximation Quality Measures in the Variable Precision Rough Set Model, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 442–452, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [54] E. H. JR., E. HRUSCHKA, and N. EBECKEN, A Data Preparation Bayesian Approach for a Clustering Genetic Algorithm, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 453–461, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [55] A. J. CHERVONENKIS, Reconstruction of conditional distribution field based on empirical data, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 462–469, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [56] C. JAKOVLEVICH, Reconstruction of conditional distribution field based on empirical data, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 462–469, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [57] S. MACEDO and E. MAMDANI, Bi-Directional Flow of Information in the Softboard Architecture, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 470–479, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [58] J. VELÁSQUEZ, H. YASUDA, T. AOKI, and R. WEBER, Voice Codification using Self Organizing Maps as Data Mining Tool, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 480–489, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [59] I. G. M. C. MARTINS, Identifying Patterns of Corporate Tax Payment, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 490–499, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [60] V. RAMOS, F. MUGE, and P. PINA, Self-Organized Data and Image Retrieval as a Consequence of Inter-Dynamic Synergistic Relationships in Artificial Ant Colonies, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 500–512, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [61] F. ZAMBETTA and G. CATUCCI, Designing Not-So-Dull Virtual Dolls, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 513–518, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [62] J. NOLAN, A. SOOD, and R. SIMON, SADISCO: A Scalable Agent Discovery and Composition Mechanism, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 519–528, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [63] S. GOUARDERES, G. GOUARDERES, and P. DELPY, MAYBE - Multi-Agent Yield-Based Engineering : Improve Training in the Emergency Room Chain, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 529–539, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [64] H. IBA, N. TOKUI, and H. WAKAKI, 3D-CG Avatar Motion Design by means of Interactive Evolutionary Computation, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 540–549, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [65] V. MARIK and V. MASHKOV, Alliance Formation with Several Coordinators, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 550–564, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [66] R. BAEZA-YATES and C. CASTILLO, Balancing Volume, Quality and Freshness in Web Crawling, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 565–572, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [67] N. ANGKAWATTANAWIT and A. RUNGSAWANG, Learnable Topic-specific Web Crawler, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 573–582, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [68] M. RODRÍGUEZ, A Spatial Dimension for Searching the World Wide Web, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 583–592, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [69] E. MORALES and C. GUTIÉRREZ, Building Yearbooks with RDF, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 593–601, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [70] M. JARUR and M. RODRÍGUEZ, A non-Deterministic versus Deterministic Algorithm for Searching Spatial Configurations, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 602–611, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [71] M. MARIN, Parallel Text Query Processing using Composite Inverted Lists, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 612–624, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [72] V. KUMAR, Human Reasoning In Soft Computing, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 625–633, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [73] H. DO NASCIMENTO and P. EADES, A Focus and Constraint-Based Genetic Algorithm for Interactive Directed Graph Drawing, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 634–643, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [74] E. SANCHIS and M. CASTRO, Dialogue Act Connectionist Detection in a Spoken Dialogue System, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 644–651, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [75] F. SUGIMOTO and M. YONEYAMA, A Trial Method to Create a Natural Interaction in Interactive Genetic Algorithm, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 652–662, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [76] P. NAVARRETE and J. R. DEL SOLAR, Eigenspace-based Face Recognition: A comparative study of different hybrid approaches, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 663–672, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [77] N. A. OUFROUKH and E. COLLE, Pattern Recognition with Ultrasonic Sensor using Classification Methods, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 673–680, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [78] S. VISHWANATHAN and M. MURTY, Jigsawing : A Method to Create Virtual Examples in OCR data, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 690–696, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [79] M. HAINDL and S. ĀIMBEROVÁ, Model-Based Restoration of Short-Exposure Solar Images, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 697–706, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [80] R. BROUWER, Using a Helper FFN to Represent the Cost Function for Training DRNN’s by Gradient Descent, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 707–714, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [81] S. TORRES and J. PEZOA, Scene-Based Nonuniformity Correction Method Using the Inverse Covariance Form of the Kalman Filter, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 715–724, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [82] E. VERA, R. REEVES, and S. TORRES, Adaptive Bias Compensation for Non-Uniformity Correction on Infrared Focal Plane Array Detectors, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 725–734, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [83] R. YOUSSEF and C. PURDY, Combining Genetic Algorithms and Neural Networks to Build a Signal Pattern Classifier, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 735–744, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [84] M. MURAKAMI, M. YONEYAMA, and K. SHIRAI, Accurate Human Face Extraction using Genetic Algorithm and Subspace Method, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 745–754, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [85] O. MONTIEL, O. CASTILLO, P. MELIN, and R. SEPULVEDA, The Evolutionary Learning Rule for System Identification in Adaptive Finite Impulse Filters, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 755–764, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [86] M. KÖPPEN, R. V. GARCIA, X. LIU, and B. NICKOLAY, 2D-Histogram Lookup for Low-contrast Fault Processing, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 765–774, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [87] K. NAKAMATSU, J. ABE, and A. SUZUKI, A Railway Interlocking Safety Verification System Based on Abductive Paraconsistent Logic Programming, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 775–784, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [88] K. KRAMER, S. PATZWahl, and T. NACKE, Complete Algorithm to realize CI Model-based Control and Monitoring Strategies on Microcontroller Systems, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 785–795, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [89] V. CASTILHO, M. NICOLETTI, and M. E. DEBS, Using Genetic Algorithms for Minimizing the Production Costs of Hollow Core Slabs, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 796–805, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [90] F. CUPPENS, F. AUTREL, A. MIÈGE, and S. BENFERHAT, Recognizing Malicious Intention in an Intrusion Detection Process, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 806–817, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [91] S. CHENG, Y. CHEN, C. TSENG, H. FU, and H. PAO, A Self-growing Probabilistic Decision-based Neural Network with Applications to Anchor/Speaker Identification, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 818–829, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [92] F. HEINEN and F. OSÓRIO, HyCAR - A Robust Hybrid Control Architecture for Autonomous Robots, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 830–842, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [93] X. WANG and K. SMITH, Clustering Web User Interests Using Self Organising Maps, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 843–852, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [94] X. WANG, A. ABRAHAM, and K. SMITH, Web Traffic Mining Using a Concurrent Neuro-Fuzzy Approach, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 853–862, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [95] W. SUNAYAMA and M. YACHIDA, Panoramic View System for Extracting Key Sentences based on Viewpoints and an Application to a Search Engine, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 863–870, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [96] G. RUMANTIR, Frequent Flyer Points Calculator: More Than Just a Table Lookup, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 871–880, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [97] M. SINKA and D. CORNE, Web and Multimedia Applications, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and

M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 881–890, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [98] R. WALKER, Simulating an Information Ecosystem within the WWW, in *Soft Computing Systems - Design, Management and Applications*, edited by A. ABRAHAM, J. RUIZ-DEL-SOLAR, and M. KÖPPEN, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 891–900, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.