

## Список литературы

- [1] Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds.: *Soft Computing Systems - Design, Management and Applications*, vol. 87 of *Frontiers in Artificial Intelligence and Applications*. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002). ISBN 1 58603 297 6
- [2] Oja, E.: Independent Component Analysis. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 3. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [3] de Baets, B.: Fuzzy Set Theory - a Playground for Mathematicians. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 4. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [4] Khatib, O.: Robots for the Human and Haptic Interaction. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 5. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [5] Langdon, W. B.: A Hybrid Genetic Programming Neural Network Classifier for Use in Drug Discovery. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 6. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [6] Kacprzyk, J. and Zadrony, S.: Protoforms of Linguistic Data Summaries : Towards More General Natural-Language-Based Data Mining Tools. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 7. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [7] Sung, A. H.: Role of Soft Computing in Internet Security. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 8. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [8] Dote, Y.: Neuro-Fuzzy Control. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 9–10. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [9] Letelier, J. C., Martin, G., Mpodozis, J., and Andrade, J. S.: Anticipatory Computing with Autopoietic and (M R)Systems. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 11. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [10] Amali, R., Vinney, J., Noroozi, S., and Patel, V.: The Use of a Back Propagation Neural Network to Determine the Load Distribution on a Component. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 15–20. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [11] Lee, S., Palmer-Brown, D., Tepper, J., and Roadknight, C.: Performance-guided Neural Network for Rapidly Self-Organising Active Network Management. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 21–31. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)

- [12] Fdez-Riverola, F. and Corchado, J.: An Automated Hybrid Reasoning System for Forecasting. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 31–41. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [13] Bologna, G.: Rule Extraction from Bagged Neural Networks. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 42–53. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [14] Saegusa, R. and Hashimoto, S.: Nonlinear Principal Component Analysis to Preserve the Order of Principal Components. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 54–63. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [15] Minami, T. and Inui, T.: A Neural Network Model of Rule-guided Behavior. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 64–73. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [16] Prudêncio, R. C. and Ludermir, T.: Selection of Models for Time Series Prediction via Meta-Learning. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 74–83. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [17] K. Cios, W. J. and W. Swiercz, L. S.: Spiking Neurons in Clustering of Diabetic Retinopathy Data. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 84–94. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [18] Shekar, B. and Natarajan, R.: A Fuzzy Relatedness Measure for Determining Interestingness of Association Rules. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 95–104. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [19] Rakus-Andersson, E. and Zakrzewski, L.: Factor Analysis with Qualitative Factors as Fuzzy Numbers. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 105–114. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [20] Astrain, J., Garitagoitia, J., Villadangos, J., Fariña, F., and Córdoba, A.: An Imperfect String Matching Experience Using Deformed Fuzzy Automata. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 115–123. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [21] Mastropasqua, D., Mosca, N., and Zambetta, F.: An XML-based specification of fuzzy logic controllers. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 124–131. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [22] Ishibuchi, H. and Yamamoto, T.: Comparison of Fuzzy Rule Selection Criteria for Classification Problems. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 132–141. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [23] Cock, M. D.: Linguistic Hedges: a Quantifier Based Approach. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 142–152. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)

- [24] Ferreira, C.: Analyzing the Founder Effect in Simulated Evolutionary Processes Using Gene Expression Programming. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 153–162. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [25] Ishibuchi, H. and Yoshida, T.: Hybrid Evolutionary Multi-Objective Optimization Algorithms. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 163–172. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [26] Wiese, K. and Glen, E.: A Permutation Based Genetic Algorithm for RNA Secondary Structure Prediction. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 173–182. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [27] Hirche, S., Santibanez-Koref, I., and Boblan, I.: Design of Strong Causal Fitness Functions. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 183–192. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [28] Beker, T. and Hadany, L.: Noise and Elitism in Evolutionary Computation. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 193–203. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [29] Letelier, J., Marín, G., Mpodozis, J., and Soto-Andrade, J.: Anticipatory Computing with Autopoietic and (M,R) Systems. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 205–211. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [30] Asseraf, M.: An Efficient Algorithm in Optimal Partition Problem for Trees Induction. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 212–220. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [31] Weidl, G., Madsen, A., and Dahlquist, E.: Condition Monitoring, Root Cause Analysis and Decision Support on Urgency of Actions. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 221–230. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [32] Zanni, C., Goc, M. L., and Frydman, C.: Towards a Unique Framework to Describe and Compare Diagnosis Approaches. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 231–240. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [33] Jedrzejowicz, J. and Jedrzejowicz, P.: Experimental Evaluation of the PLA-Based Permutation-Scheduling. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 241–250. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [34] Batista, G. E. A. P. A. and Monard, M.: A Study of K-Nearest Neighbour as an Imputation Method. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 251–260. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)

- [35] Zegers, P. and Sundareshan, M.: Determining The Degree of Generalization Using An Incremental Learning Algorithm. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 261–270. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [36] Knowles, J. and Corne, D.: Towards Landscape Analyses to Inform the Design of Hybrid Local Search for the Multiobjective Quadratic Assignment Problem. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 271–279. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [37] Gokcen, I., Peng, J., and Buckles, B.: Active Learning Using One-class Classification. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 280–289. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [38] Dixon, P., Corne, D., and Oates, M.: Enhancing Real-World Applicability by Providing Confidence-in-Prediction in the XCS Classifier System. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 290–299. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [39] Kawamae, N.: Latent Semantic Indexing Based on Factor Analysis. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 300–308. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [40] Veenhuis, C. and Köppen, M.: Document Oriented Modeling of Cellular Automata. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 309–320. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [41] Ali, A. S. and Abraham, A.: An Empirical Comparison of Kernel Selection for Support Vector Machines. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 321–330. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [42] Liu, Z. and Xu, Y.: Adaptive Support Vector Classifications. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 331–340. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [43] Ribeiro, B. and Carvalho, P.: Mercer’s Kernel Based Learning for Fault Detection. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 341–350. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [44] Mukkamala, S. and Sung, A.: Performance Based Feature Identification for Intrusion Detection Using Support Vector Machines. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 351–364. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [45] Mora-Jiménez, I., Lyhyaoui, A., Arenas-García, J., Navia-Vázquez, A., and Figueiras-Vidal, A.: A Trainable Classifier via k Nearest Neighbors. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 365–373. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)

- [46] Lenic, M. and Kokol, P.: Combining Classifiers with Multimethod Approach. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 374–383. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [47] Maturana, C. and Weber, R.: Feature Extraction by Distance Neural Network in Classification Tasks. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 384–393. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [48] D. Partridge, S. C.: Revealing Feature Interactions in Classification Tasks. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 394–403. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [49] Zemke, S.: Ensembles in Practice: Predication, Estimation, Multi-Feature and Noisy Data. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 404–416. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [50] Kacprzyk, J. and Zadrozny, S.: Protoforms of Linguistic Data Summaries: Towards More General Natural-Language-Based Data Mining Tools. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 417–425. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [51] Aguilar, J. and Perozo, N.: Sparse Distributed Memory with Adaptive Threshold. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 426–432. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [52] Sharma, D.: UniLR: An Automated Fuzzy Legal Reasoner. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 433–441. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [53] Ziarko, W.: Set Approximation Quality Measures in the Variable Precision Rough Set Model. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 442–452. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [54] Jr., E. H., Hruschka, E., and Ebecken, N.: A Data Preparation Bayesian Approach for a Clustering Genetic Algorithm. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 453–461. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [55] Chervonenkis, A. J.: Reconstruction of conditional distribution field based on empirical data. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 462–469. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [56] Jakovlevich, C.: Reconstruction of conditional distribution field based on empirical data. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 462–469. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [57] Macedo, S. and Mamdani, E.: Bi-Directional Flow of Information in the Softboard Architecture. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 470–479. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)

- [58] Velásquez, J., Yasuda, H., Aoki, T., and Weber, R.: Voice Codification using Self Organizing Maps as Data Mining Tool. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 480–489. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [59] M. C. Martins, I. G.: Identifying Patterns of Corporate Tax Payment. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 490–499. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [60] Ramos, V., Muge, F., and Pina, P.: Self-Organized Data and Image Retrieval as a Consequence of Inter-Dynamic Synergistic Relationships in Artificial Ant Colonies. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 500–512. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [61] Zambetta, F. and Catucci, G.: Designing Not-So-Dull Virtual Dolls. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 513–518. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [62] Nolan, J., Sood, A., and Simon, R.: SADISCO: A Scalable Agent Discovery and Composition Mechanism. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 519–528. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [63] Gouarderes, S., Gouarderes, G., and Delpy, P.: MAYBE - Multi-Agent Yield-Based Engineering : Improve Training in the Emergency Room Chain. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 529–539. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [64] Iba, H., Tokui, N., and Wakaki, H.: 3D-CG Avatar Motion Design by means of Interactive Evolutionary Computation. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 540–549. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [65] Marik, V. and Mashkov, V.: Alliance Formation with Several Coordinators. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 550–564. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [66] Baeza-Yates, R. and Castillo, C.: Balancing Volume, Quality and Freshness in Web Crawling. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 565–572. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [67] Angkawattanawit, N. and Rungsawang, A.: Learnable Topic-specific Web Crawler. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 573–582. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [68] Rodríguez, M.: A Spatial Dimension for Searching the World Wide Web. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 583–592. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)

- [69] Morales, E. and Gutiérrez, C.: Building Yearbooks with RDF. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 593–601. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [70] Jarur, M. and Rodríguez, M.: A non-Deterministic versus Deterministic Algorithm for Searching Spatial Configurations. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 602–611. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [71] Marin, M.: Parallel Text Query Processing using Composite Inverted Lists. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 612–624. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [72] Kumar, V.: Human Reasoning In Soft Computing. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 625–633. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [73] do Nascimento, H. and Eades, P.: A Focus and Constraint-Based Genetic Algorithm for Interactive Directed Graph Drawing. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 634–643. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [74] Sanchis, E. and Castro, M.: Dialogue Act Connectionist Detection in a Spoken Dialogue System. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 644–651. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [75] Sugimoto, F. and Yoneyama, M.: A Trial Method to Create a Natural Interaction in Interactive Genetic Algorithm. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 652–662. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [76] Navarrete, P. and del solar, J. R.: Eigenspace-based Face Recognition: A comparative study of different hybrid approaches. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 663–672. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [77] Oufroukh, N. A. and Colle, E.: Pattern Recognition with Ultrasonic Sensor using Classification Methods. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 673–680. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [78] Vishwanthan, S. and Murty, M.: Jigsawing : A Method to Create Virtual Examples in OCR data. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 690–696. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [79] Haindl, M. and äimberová, S.: Model-Based Restoration of Short-Exposure Solar Images. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 697–706. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)

- [80] Brouwer, R.: Using a Helper FFN to Represent the Cost Function for Training DRNN's by Gradient Descent. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 707–714. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [81] Torres, S. and Pezoa, J.: Scene-Based Nonuniformity Correction Method Using the Inverse Covariance Form of the Kalman Filter. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 715–724. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [82] Vera, E., Reeves, R., and Torres, S.: Adaptive Bias Compensation for Non-Uniformity Correction on Infrared Focal Plane Array Detectors. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 725–734. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [83] Youssif, R. and Purdy, C.: Combining Genetic Algorithms and Neural Networks to Build a Signal Pattern Classifier. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 735–744. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [84] Murakami, M., Yoneyama, M., and Shirai, K.: Accurate Human Face Extraction using Genetic Algorithm and Subspace Method. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 745–754. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [85] Montiel, O., Castillo, O., Melin, P., and Sepulveda, R.: The Evolutionary Learning Rule for System Identification in Adaptive Finite Impulse Filters. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 755–764. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [86] Köppen, M., Garcia, R. V., Liu, X., and Nickolay, B.: 2D-Histogram Lookup for Low-contrast Fault Processing. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 765–774. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [87] Nakamatsu, K., Abe, J., and Suzuki, A.: A Railway Interlocking Safety Verification System Based on Abductive Paraconsistent Logic Programming. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 775–784. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [88] Kramer, K., Patzwahl, S., and Nacke, T.: Complete Algorithm to realize CI Model-based Control and Monitoring Strategies on Microcontroller Systems. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 785–795. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [89] Castilho, V., Nicoletti, M., and Debs, M. E.: Using Genetic Algorithms for Minimizing the Production Costs of Hollow Core Slabs. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 796–805. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)



- [90] Cuppens, F., Autrel, F., Miège, A., and Benferhat, S.: Recognizing Malicious Intention in an Intrusion Detection Process. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 806–817. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [91] Cheng, S., Chen, Y., Tseng, C., Fu, H., and Pao, H.: A Self-growing Probabilistic Decision-based Neural Network with Applications to Anchor/Speaker Identification. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 818–829. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [92] Heinen, F. and Osório, F.: HyCAR - A Robust Hybrid Control Architecture for Autonomous Robots. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 830–842. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [93] Wang, X. and Smith, K.: Clustering Web User Interests Using Self Organising Maps. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 843–852. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [94] Wang, X., Abraham, A., and Smith, K.: Web Traffic Mining Using a Concurrent Neuro-Fuzzy Approach. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 853–862. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [95] Sunayama, W. and Yachida, M.: Panoramic View System for Extracting Key Sentences based on Viewpoints and an Application to a Search Engine. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 863–870. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [96] Rumantir, G.: Frequent Flyer Points Calculator: More Than Just a Table Lookup. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 871–880. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [97] Sinka, M. and Corne, D.: Web and Multimedia Applications. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 881–890. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)
- [98] Walker, R.: Simulating an Information Ecosystem within the WWW. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., eds., *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, 891–900. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. (2002)