Список литературы

[1] A. Abraham, J. Ruiz-del-Solar, and M. Köppen, 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.

[2] E. Oja, "Independent Component Analisys," in *Soft Computing Systems - Design, Management and Applications*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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 Minig Tools," in *Soft Computing Systems - Design, Management and Applications*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 673–680. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

[78] S. Vishwanthan and M. Murty, "Jigsawing : A Method to Create Virtual Examples in OCR data," in *Soft Computing Systems - Design, Management and Applications*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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. äimberová, "Model-Based Restoration of Short-Exposure Solar Images," in *Soft Computing Systems - Design, Management and Applications*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 725–734. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

[83] R. Youssif and C. Purdy, "Combining Genetic Algorithms and Neural Networks to Build a Signal Pattern Classifier," in *Soft Computing Systems - Design, Management and Applications*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., 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*, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, eds., Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 891–900. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.