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).

[2] Oja, E. (2002) Independent Component Analisys. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 p. 3.

[3] de Baets, B. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 p. 4.

[4] Khatib, O. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 p. 5.

[5] Langdon, W. B. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 p. 6.

[6] Kacprzyk, J. and Zadrony, S. (2002) Protoforms of Linguistic Data Summaries : Towards More General Natural-Language-Based Data Minig Tools. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 p. 7.

[7] Sung, A. H. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 p. 8.

[8] Dote, Y. (2002) Neuro-Fuzzy Control. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 9–10.

[9] Letelier, J. C., Martin, G., Mpodozis, J., and Andrade, J. S. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 p. 11.

[10] Amali, R., Vinney, J., Noroozi, S., and Patel, V. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 15–20.

[11] Lee, S., Palmer-Brown, D., Tepper, J., and Roadknight, C. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 21–31.

[12] Fdez-Riverola, F. and Corchado, J. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 31–41.

[13] Bologna, G. (2002) Rule Extraction from Bagged Neural Networks. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 42–53.

[14] Saegusa, R. and Hashimoto, S. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 54–63.

[15] Minami, T. and Inui, T. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 64–73.

[16] Prudêncio, R. C. and Ludermir, T. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 74–83.

[17] K. Cios, W. J. and W. Swiercz, L. S. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 84–94.

[18] Shekar, B. and Natarajan, R. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 95–104.

[19] Rakus-Andersson, E. and Zakrzewski, L. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 105–114.

[20] Astrain, J., Garitagoitia, J., Villadangos, J., Fariña, F., and Córdoba, A. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 115–123.

[21] Mastropasqua, D., Mosca, N., and Zambetta, F. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 124–131.

[22] Ishibuchi, H. and Yamamoto, T. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 132–141.

[23] Cock, M. D. (2002) Linguistic Hedges: a Quantifier Based Approach. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 142–152.

[24] Ferreira, C. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 153–162.

[25] Ishibuchi, H. and Yoshida, T. (2002) Hybrid Evolutionary Multi-Objective Optimization Algorithms. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 163–172.

[26] Wiese, K. and Glen, E. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 173–182.

[27] Hirche, S., Santibanez-Koref, I., and Boblan, I. (2002) Design of Strong Causal Fitness Functions. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 183–192.

[28] Beker, T. and Hadany, L. (2002) Noise and Elitism in Evolutionary Computation. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 193–203.

[29] Letelier, J., Marín, G., Mpodozis, J., and Soto-Andrade, J. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 205–211.

[30] Asseraf, M. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 212–220.

[31] Weidl, G., Madsen, A., and Dahlquist, E. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 221–230.

[32] Zanni, C., Goc, M. L., and Frydman, C. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 231–240.

[33] Jedrzejowicz, J. and Jedrzejowicz, P. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 241–250.

[34] Batista, G. E. A. P. A. and Monard, M. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 251–260.

[35] Zegers, P. and Sundareshan, M. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 261–270.

[36] Knowles, J. and Corne, D. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 271–279.

[37] Gokcen, I., Peng, J., and Buckles, B. (2002) Active Learning Using One-class Classification. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 280–289.

[38] Dixon, P., Corne, D., and Oates, M. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 290–299.

[39] Kawamae, N. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 300–308.

[40] Veenhuis, C. and Köppen, M. (2002) Document Oriented Modeling of Cellular Automata. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 309–320.

[41] Ali, A. S. and Abraham, A. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 321–330.

[42] Liu, Z. and Xu, Y. (2002) Adaptive Support Vector Classifications. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 331–340.

[43] Ribeiro, B. and Carvalho, P. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 341–350.

[44] Mukkamala, S. and Sung, A. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 351–364.

[45] Mora-Jiménez, I., Lyhyaoui, A., Arenas-García, J., Navia-Vázquez, A., and Figueiras-Vidal, A. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 365–373.

[46] Lenic, M. and Kokol, P. (2002) Combining Classifiers with Multimethod Approach. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 374–383.

[47] Maturana, C. and Weber, R. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 384–393.

[48] D. Partridge, S. C. (2002) Revealing Feature Interactions in Classification Tasks. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 394–403.

[49] Zemke, S. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 404–416.

[50] Kacprzyk, J. and Zadrozny, S. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 417–425.

[51] Aguilar, J. and Perozo, N. (2002) Sparse Distributed Memory with Adaptive Threshold. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 426–432.

[52] Sharma, D. (2002) UniLR: An Automated Fuzzy Legal Reasoner. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 433–441.

[53] Ziarko, W. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 442–452.

[54] Jr., E. H., Hruschka, E., and Ebecken, N. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 453–461.

[55] Chervonenkis, A. J. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 462–469.

[56] Jakovlevich, C. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 462–469.

[57] Macedo, S. and Mamdani, E. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 470–479.

[58] Velásquez, J., Yasuda, H., Aoki, T., and Weber, R. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 480–489.

[59] M. C. Martins, I. G. (2002) Identifying Patterns of Corporate Tax Payment. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 490–499.

[60] Ramos, V., Muge, F., and Pina, P. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 500–512.

[61] Zambetta, F. and Catucci, G. (2002) Designing Not-So-Dull Virtual Dolls. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 513–518.

[62] Nolan, J., Sood, A., and Simon, R. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 519–528.

[63] Gouarderes, S., Gouarderes, G., and Delpy, P. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 529–539.

[64] Iba, H., Tokui, N., and Wakaki, H. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 540–549.

[65] Marik, V. and Mashkov, V. (2002) Alliance Formation with Several Coordinators. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 550–564.

[66] Baeza-Yates, R. and Castillo, C. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 565–572.

[67] Angkawattanawit, N. and Rungsawang, A. (2002) Learnable Topic-specific Web Crawler. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 573–582.

[68] Rodríguez, M. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 583–592.

[69] Morales, E. and Gutiérrez, C. (2002) Building Yearbooks with RDF. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 593–601.

[70] Jarur, M. and Rodríguez, M. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 602–611.

[71] Marin, M. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 612–624.

[72] Kumar, V. (2002) Human Reasoning In Soft Computing. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 625–633.

[73] do Nascimento, H. and Eades, P. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 634–643.

[74] Sanchis, E. and Castro, M. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 644–651.

[75] Sugimoto, F. and Yoneyama, M. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 652–662.

[76] Navarrete, P. and del solar, J. R. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 663–672.

[77] Oufroukh, N. A. and Colle, E. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 673–680.

[78] Vishwanthan, S. and Murty, M. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 690–696.

[79] Haindl, M. and äimberová, S. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 697–706.

[80] Brouwer, R. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 707–714.

[81] Torres, S. and Pezoa, J. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 715–724.

[82] Vera, E., Reeves, R., and Torres, S. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 725–734.

[83] Youssif, R. and Purdy, C. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 735–744.

[84] Murakami, M., Yoneyama, M., and Shirai, K. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 745–754.

[85] Montiel, O., Castillo, O., Melin, P., and Sepulveda, R. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 755–764.

[86] Köppen, M., Garcia, R. V., Liu, X., and Nickolay, B. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 765–774.

[87] Nakamatsu, K., Abe, J., and Suzuki, A. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 775–784.

[88] Kramer, K., Patzwahl, S., and Nacke, T. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 785–795.

[89] Castilho, V., Nicoletti, M., and Debs, M. E. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 796–805.

[90] Cuppens, F., Autrel, F., Miège, A., and Benferhat, S. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 806–817.

[91] Cheng, S., Chen, Y., Tseng, C., Fu, H., and Pao, H. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 818–829.

[92] Heinen, F. and Osório, F. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 830–842.

[93] Wang, X. and Smith, K. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 843–852.

[94] Wang, X., Abraham, A., and Smith, K. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 853–862.

[95] Sunayama, W. and Yachida, M. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 863–870.

[96] Rumantir, G. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 871–880.

[97] Sinka, M. and Corne, D. (2002) Web and Multimedia Applications. In Abraham, A., Ruiz-del-Solar, J., and Köppen, M., (eds.), *Soft Computing Systems - Design, Management and Applications*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 881–890.

[98] Walker, R. (2002) 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*, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C. Frontiers in Artificial Intelligence and Applications Vol. 87 pp. 891–900.