

Список литературы

- [1] A. Abraham, J. Ruiz-del-Solar and M. Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, , Frontiers in Artificial Intelligence and Applications Vol. 87, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [2] E. Oja, Independent component analysis, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, p. 3, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [3] B. de Baets, Fuzzy set theory - a playground for mathematicians, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, p. 4, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [4] O. Khatib, Robots for the human and haptic interaction, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, p. 5, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [5] W. B. Langdon, A hybrid genetic programming neural network classifier for use in drug discovery, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, p. 6, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [6] J. Kacprzyk and S. Zadrony, Protoforms of linguistic data summaries : Towards more general natural-language-based data mining tools, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, p. 7, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [7] A. H. Sung, Role of soft computing in internet security, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, p. 8, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [8] Y. Dote, Neuro-fuzzy control, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 9–10, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [9] J. C. Letelier, G. Martin, J. Mpodozis and J. S. Andrade, Anticipatory computing with autopoietic and (m r)systems, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, p. 11, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [10] R. Amali, J. Vinney, S. Noroozi and V. Patel, The use of a back propagation neural network to determine the load distribution on a component, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 15–20, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [11] S. Lee, D. Palmer-Brown, J. Tepper and C. Roadknight, Performance-guided neural network for rapidly self-organising active network management, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 21–31, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [12] F. Fdez-Riverola and J. Corchado, An automated hybrid reasoning system for forecasting, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 31–41, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [13] G. Bologna, Rule extraction from bagged neural networks, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 42–53, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [14] R. Saegusa and S. Hashimoto, Nonlinear principal component analysis to preserve the order of principal components, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 54–63, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [15] T. Minami and T. Inui, A neural network model of rule-guided behavior, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 64–73, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [16] R. C. Prudêncio and T. Ludermir, Selection of models for time series prediction via meta-learning, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 74–83, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [17] W. J. K. Cios and L. S. W. Swiercz, Spiking neurons in clustering of diabetic retinopathy data, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 84–94, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [18] B. Shekar and R. Natarajan, A fuzzy relatedness measure for determining interestingness of association rules, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 95–104, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [19] E. Rakus-Andersson and L. Zakrzewski, Factor analysis with qualitative factors as fuzzy numbers, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 105–114, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [20] J. Astrain, J. Garitagoitia, J. Villadangos, F. Fariña and A. Córdoba, An imperfect string matching experience using deformed fuzzy automata, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 115–123, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [21] D. Mastropasqua, N. Mosca and F. Zambetta, An xml-based specification of fuzzy logic controllers, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 124–131, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [22] H. Ishibuchi and T. Yamamoto, Comparison of fuzzy rule selection criteria for classification problems, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 132–141, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [23] M. D. Cock, Linguistic hedges: a quantifier based approach, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 142–152, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [24] C. Ferreira, Analyzing the founder effect in simulated evolutionary processes using gene expression programming, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 153–162, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [25] H. Ishibuchi and T. Yoshida, Hybrid evolutionary multi-objective optimization algorithms, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 163–172, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [26] K. Wiese and E. Glen, A permutation based genetic algorithm for rna secondary structure prediction, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 173–182, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [27] S. Hirche, I. Santibanez-Koref and I. Boblan, Design of strong causal fitness functions, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 183–192, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [28] T. Beker and L. Hadany, Noise and elitism in evolutionary computation, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 193–203, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [29] J. Letelier, G. Marín, J. Mpodozis and J. Soto-Andrade, Anticipatory computing with autopoietic and (m,r) systems, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 205–211, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [30] M. Asseraf, An efficient algorithm in optimal partition problem for trees induction, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 212–220, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [31] G. Weidl, A. Madsen and E. Dahlquist, Condition monitoring, root cause analysis and decision support on urgency of actions, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 221–230, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [32] C. Zanni, M. L. Goc and C. Frydman, Towards a unique framework to describe and compare diagnosis approaches, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 231–240, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [33] J. Jedrzejowicz and P. Jedrzejowicz, Experimental evaluation of the pla-based permutation-scheduling, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 241–250, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [34] G. E. A. P. A. Batista and M. Monard, A study of k-nearest neighbour as an imputation method, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 251–260, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [35] P. Zegers and M. Sundareshan, Determining the degree of generalization using an incremental learning algorithm, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 261–270, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [36] J. Knowles and D. Corne, Towards landscape analyses to inform the design of hybrid local search for the multiobjective quadratic assignment problem, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 271–279, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [37] I. Gokcen, J. Peng and B. Buckles, Active learning using one-class classification, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 280–289, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [38] P. Dixon, D. Corne and M. Oates, Enhancing real-world applicability by providing confidence-in-prediction in the xcs classifier system, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 290–299, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [39] N. Kawamae, Latent semantic indexing based on factor analysis, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 300–308, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [40] C. Veenhuis and M. Köppen, Document oriented modeling of cellular automata, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 309–320, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [41] A. S. Ali and A. Abraham, An empirical comparison of kernel selection for support vector machines, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 321–330, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [42] Z. Liu and Y. Xu, Adaptive support vector classifications, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 331–340, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [43] B. Ribeiro and P. Carvalho, Mercer’s kernel based learning for fault detection, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 341–350, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [44] S. Mukkamala and A. Sung, Performance based feature identification for intrusion detection using support vector machines, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 351–364, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [45] I. Mora-Jiménez, A. Lyhyaoui, J. Arenas-García, A. Navia-Vázquez and A. Figueiras-Vidal, A trainable classifier via k nearest neighbors, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 365–373, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [46] M. Lenic and P. Kokol, Combining classifiers with multimethod approach, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 374–383, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [47] C. Maturana and R. Weber, Feature extraction by distance neural network in classification tasks, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 384–393, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [48] S. C. D. Partridge, Revealing feature interactions in classification tasks, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 394–403, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [49] S. Zemke, Ensembles in practice: Predication, estimation, multi-feature and noisy data, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 404–416, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [50] J. Kacprzyk and S. Zadrozny, Protoforms of linguistic data summaries: Towards more general natural-language-based data mining tools, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 417–425, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [51] J. Aguilar and N. Perozo, Sparse distributed memory with adaptive threshold, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 426–432, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [52] D. Sharma, Unilr: An automated fuzzy legal reasoner, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 433–441, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [53] W. Ziarko, Set approximation quality measures in the variable precision rough set model, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 442–452, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [54] E. H. Jr., E. Hruschka and N. Ebecken, A data preparation bayesian approach for a clustering genetic algorithm, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 453–461, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [55] A. J. Chervonenkis, Reconstruction of conditional distribution field based on empirical data, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 462–469, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [56] C. Jakovlevich, Reconstruction of conditional distribution field based on empirical data, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 462–469, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [57] S. Macedo and E. Mamdani, Bi-directional flow of information in the softboard architecture, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 470–479, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [58] J. Velásquez, H. Yasuda, T. Aoki and R. Weber, Voice codification using self organizing maps as data mining tool, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 480–489, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [59] I. G. M. C. Martins, Identifying patterns of corporate tax payment, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 490–499, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [60] V. Ramos, F. Muge and P. Pina, Self-organized data and image retrieval as a consequence of inter-dynamic synergistic relationships in artificial ant colonies, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 500–512, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [61] F. Zambetta and G. Catucci, Designing not-so-dull virtual dolls, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 513–518, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [62] J. Nolan, A. Sood and R. Simon, Sadisco: A scalable agent discovery and composition mechanism, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 519–528, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [63] S. Gouarderes, G. Gouarderes and P. Delpy, Maybe - multi-agent yield-based engineering : Improve training in the emergency room chain, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 529–539, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [64] H. Iba, N. Tokui and H. Wakaki, 3d-cg avatar motion design by means of interactive evolutionary computation, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 540–549, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [65] V. Marik and V. Mashkov, Alliance formation with several coordinators, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 550–564, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [66] R. Baeza-Yates and C. Castillo, Balancing volume, quality and freshness in web crawling, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 565–572, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [67] N. Angkawattanawit and A. Rungsawang, Learnable topic-specific web crawler, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 573–582, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [68] M. Rodríguez, A spatial dimension for searching the world wide web, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 583–592, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [69] E. Morales and C. Gutiérrez, Building yearbooks with rdf, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 593–601, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [70] M. Jarur and M. Rodríguez, A non-deterministic versus deterministic algorithm for searching spatial configurations, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 602–611, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [71] M. Marin, Parallel text query processing using composite inverted lists, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 612–624, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [72] V. Kumar, Human reasoning in soft computing, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 625–633, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [73] H. do Nascimento and P. Eades, A focus and constraint-based genetic algorithm for interactive directed graph drawing, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 634–643, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [74] E. Sanchis and M. Castro, Dialogue act connectionist detection in a spoken dialogue system, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 644–651, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [75] F. Sugimoto and M. Yoneyama, A trial method to create a natural interaction in interactive genetic algorithm, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 652–662, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [76] P. Navarrete and J. R. del solar, Eigenspace-based face recognition: A comparative study of different hybrid approaches, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 663–672, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [77] N. A. Oufroukh and E. Colle, Pattern recognition with ultrasonic sensor using classification methods, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 673–680, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [78] S. Vishwanthan and M. Murty, Jigsawing : A method to create virtual examples in ocr data, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 690–696, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [79] M. Haindl and S. äimberová, Model-based restoration of short-exposure solar images, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 697–706, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [80] R. Brouwer, Using a helper fn to represent the cost function for training drnn’s by gradient descent, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 707–714, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [81] S. Torres and J. Pezoa, Scene-based nonuniformity correction method using the inverse covariance form of the kalman filter, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 715–724, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [82] E. Vera, R. Reeves and S. Torres, Adaptive bias compensation for non-uniformity correction on infrared focal plane array detectors, in *Soft Computing Systems - Design, Management and*

- Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 725–734, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [83] R. Youssif and C. Purdy, Combining genetic algorithms and neural networks to build a signal pattern classifier, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 735–744, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [84] M. Murakami, M. Yoneyama and K. Shirai, Accurate human face extraction using genetic algorithm and subspace method, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 745–754, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [85] O. Montiel, O. Castillo, P. Melin and R. Sepulveda, The evolutionary learning rule for system identification in adaptive finite impulse filters, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 755–764, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [86] M. Köppen, R. V. Garcia, X. Liu and B. Nickolay, 2d-histogram lookup for low-contrast fault processing, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 765–774, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [87] K. Nakamatsu, J. Abe and A. Suzuki, A railway interlocking safety verification system based on abductive paraconsistent logic programming, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 775–784, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [88] K. Kramer, S. Patzwahl and T. Nacke, Complete algorithm to realize ci model-based control and monitoring strategies on microcontroller systems, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 785–795, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [89] V. Castilho, M. Nicoletti and M. E. Debs, Using genetic algorithms for minimizing the production costs of hollow core slabs, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 796–805, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [90] F. Cuppens, F. Autrel, A. Miège and S. Benferhat, Recognizing malicious intention in an intrusion detection process, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 806–817, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [91] S. Cheng, Y. Chen, C. Tseng, H. Fu and H. Pao, A self-growing probabilistic decision-based neural network with applications to anchor/speaker identification, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 818–829, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
 - [92] F. Heinen and F. Osório, Hycar - a robust hybrid control architecture for autonomous robots, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, *Frontiers in Artificial Intelligence and Applications* Vol. 87, pp. 830–842, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [93] X. Wang and K. Smith, Clustering web user interests using self organising maps, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 843–852, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [94] X. Wang, A. Abraham and K. Smith, Web traffic mining using a concurrent neuro-fuzzy approach, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 853–862, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [95] W. Sunayama and M. Yachida, Panoramic view system for extracting key sentences based on viewpoints and an application to a search engine, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 863–870, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [96] G. Rumantir, Frequent flyer points calculator: More than just a table lookup, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 871–880, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [97] M. Sinka and D. Corne, Web and multimedia applications, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 881–890, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [98] R. Walker, Simulating an information ecosystem within the www, in *Soft Computing Systems - Design, Management and Applications*, edited by A. Abraham, J. Ruiz-del-Solar and M. Köppen, Frontiers in Artificial Intelligence and Applications Vol. 87, pp. 891–900, IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.