

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 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, 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 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, 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 fn 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.