

## Список литературы

- [AA02] A.B.M. Shawkat Ali and A. Abraham. An empirical comparison of kernel selection for support vector machines. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 321–330. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [AGV<sup>+</sup>02] J.J. Astrain, J.R. Garitagoitia, J. Villadangos, F. Fariña, and A. Córdoba. An imperfect string matching experience using deformed fuzzy automata. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 115–123. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [AP02] J.L. Aguilar and N. Perozo. Sparse distributed memory with adaptive threshold. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 426–432. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [AR02] N. Angkawattanawit and A. Rungsawang. Learnable topic-specific web crawler. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 573–582. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [ARK02] Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors. *Soft Computing Systems - Design, Management and Applications*, volume 87 of *Frontiers in Artificial Intelligence and Applications*. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [Ass02] M. Asseraf. An efficient algorithm in optimal partition problem for trees induction. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 212–220. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [AVNP02] 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 Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 15–20. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [BH02] T. Beker and L. Hadany. Noise and elitism in evolutionary computation. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 193–203. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [BM02] Gustavo E. A. P. A. Batista and M.C. Monard. A study of k-nearest neighbour as an imputation method. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 251–260. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [Bol02] G. Bologna. Rule extraction from bagged neural networks. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 42–53. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [Bro02] R.K. Brouwer. Using a helper fn to represent the cost function for training drnn's by gradient descent. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 707–714. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [BYC02] R. Baeza-Yates and C. Castillo. Balancing volume, quality and freshness in web crawling. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 565–572. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [CAMB02] F. Cuppens, F. Autrel, A. Miège, and S. Benferhat. Recognizing malicious intention in an intrusion detection process. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 806–817. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [CCT<sup>+</sup>02] S.S. Cheng, Y.H. Chen, C.L. Tseng, H.C. Fu, and H.T. Pao. A self-growing probabilistic decision-based neural network with applications to anchor/speaker identification. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 818–829. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [Che02] Alexey Jakovlevich Chervonenkis. Reconstruction of conditional distribution field based on empirical data. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 462–469. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [CND02] V.C. Castilho, M.C. Nicoletti, and M.K. El Debs. Using genetic algorithms for minimizing the production costs of hollow core slabs. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 796–805. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [Coc02] M. De Cock. Linguistic hedges: a quantifier based approach. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 142–152. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [dB02] Bernard de Baets. Fuzzy set theory - a playground for mathematicians. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, page 4. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [DCO02] P.W. Dixon, D.W. Corne, and M.J. Oates. Enhancing real-world applicability by providing confidence-in-prediction in the xcs classifier system. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 290–299. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [dNE02] H.A.D. do Nascimento and P. Eades. A focus and constraint-based genetic algorithm for interactive directed graph drawing. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 634–643. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [Dot02] Yasuhiko Dote. Neuro-fuzzy control. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 9–10. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [DP02] S. Cang D. Partridge. Revealing feature interactions in classification tasks. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 394–403. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [Fer02] C. Ferreira. Analyzing the founder effect in simulated evolutionary processes using gene expression programming. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 153–162. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [FRC02] F. Fdez-Riverola and J.M. Corchado. An automated hybrid reasoning system for forecasting. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 31–41. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [GGD02] S. Gouarderes, G. Gouarderes, and P. Delpy. Maybe - multi-agent yield-based engineering : Improve training in the emergency room chain. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 529–539. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [GPB02] I. Gokcen, J. Peng, and B.P. Buckles. Active learning using one-class classification. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 280–289. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [Hä02] M. Haindl and S. äimberová. Model-based restoration of short-exposure solar images. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 697–706. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [HO02] F.J. Heinen and F.S. Osório. Hycar - a robust hybrid control architecture for autonomous robots. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 830–842. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [HSKB02] S. Hirche, I. Santibanez-Koref, and I. Boblan. Design of strong causal fitness functions. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 183–192. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [ITW02] H. Iba, N. Tokui, and H. Wakaki. 3d-cg avatar motion design by means of interactive evolutionary computation. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 540–549. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [IY02a] H. Ishibuchi and T. Yamamoto. Comparison of fuzzy rule selection criteria for classification problems. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 132–141. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [IY02b] H. Ishibuchi and T. Yoshida. Hybrid evolutionary multi-objective optimization algorithms. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 163–172. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [Jak02] C.A. Jakovlevich. Reconstruction of conditional distribution field based on empirical data. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 462–469. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [JHE02] E.R. Hruschka Jr., E.R. Hruschka, and N.F.F. Ebecken. A data preparation bayesian approach for a clustering genetic algorithm. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 453–461. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [JJ02] J. Jedrzejowicz and P. Jedrzejowicz. Experimental evaluation of the pla-based permutation-scheduling. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 241–250. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [JR02] M.C. Jarur and M.A. Rodríguez. A non-deterministic versus deterministic algorithm for searching spatial configurations. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 602–611. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [Kaw02] N. Kawamae. Latent semantic indexing based on factor analysis. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 300–308. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [KC02] J.D. Knowles and D.W. Corne. Towards landscape analyses to inform the design of hybrid local search for the multiobjective quadratic assignment problem. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 271–279. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [KCWS02] W. Jackson K. Cios and L. Springhetti W. Swiercz. Spiking neurons in clustering of diabetic retinopathy data. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 84–94. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [KGLN02] M. Köppen, R. Vicente Garcia, X. Liu, and B. Nickolay. 2d-histogram lookup for low-contrast fault processing. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 765–774. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [Kha02] Oussama Khatib. Robots for the human and haptic interaction. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, page 5. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [KPN02] K.D. Kramer, S. Patzwahl, and T. Nacke. Complete algorithm to realize ci model-based control and monitoring strategies on microcontroller systems. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 785–795. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [Kum02] V.S. Kumar. Human reasoning in soft computing. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 625–633. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [KZ02a] J. Kacprzyk and S. Zadrozny. Protoforms of linguistic data summaries: Towards more general natural-language-based data mining tools. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 417–425. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [KZ02b] Janusz Kacprzyk and Sawomir Zadrony. Protoforms of linguistic data summaries : Towards more general natural-language-based data minig tools. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, page 7. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [Lan02] William B. Langdon. A hybrid genetic programming neural network classifier for use in drug discovery. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, page 6. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [LK02] M. Lenic and P. Kokol. Combining classifiers with multimethod approach. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 374–383. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [LMMA02] Juan Carlos Letelier, Gonzalo Martin, Jorge Mpodozis, and Jorge Soto Andrade. Anticipatory computing with autopoietic and (m r)systems. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, page 11. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [LMMSA02] J.C. Letelier, G. Marín, J. Mpodozis, and J. Soto-Andrade. Anticipatory computing with autopoietic and (m,r) systems. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 205–211. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [LPBTR02] S.W. Lee, D. Palmer-Brown, J. Tepper, and C. Roadknight. Performance-guided neural network for rapidly self-organising active network management. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 21–31. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [LX02] Z. Liu and Y. Xu. Adaptive support vector classifications. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 331–340. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [Mar02] M. Marin. Parallel text query processing using composite inverted lists. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 612–624. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [MCM02] I.M. Garaffa M. C. Martins. Identifying patterns of corporate tax payment. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 490–499. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [MCMS02] O. Montiel, O. Castillo, P. Melin, and R. Sepulveda. The evolutionary learning rule for system identification in adaptive finite impulse filters. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 755–764. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [MG02] E.K. Morales and C. Gutiérrez. Building yearbooks with rdf. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 593–601. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [MI02] T. Minami and T. Inui. A neural network model of rule-guided behavior. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 64–73. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [MJLAG<sup>+</sup>02] I. Mora-Jiménez, A. Lyhyaoui, J. Arenas-García, A. Navia-Vázquez, and A.R. Figueiras-Vidal. A trainable classifier via k nearest neighbors. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 365–373. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [MM02a] S. Macedo and E. Mamdani. Bi-directional flow of information in the softboard architecture. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 470–479. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [MM02b] V. Marik and V. Mashkov. Alliance formation with several coordinators. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 550–564. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [MMZ02] D. Mastropasqua, N. Mosca, and F. Zambetta. An xml-based specification of fuzzy logic controllers. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 124–131. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [MS02] S. Mukkamala and A.H. Sung. Performance based feature identification for intrusion detection using support vector machines. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 351–364. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [MW02] C. Maturana and R. Weber. Feature extraction by distance neural network in classification tasks. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 384–393. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [MYS02] M. Murakami, M. Yoneyama, and K. Shirai. Accurate human face extraction using genetic algorithm and subspace method. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 745–754. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [NAS02] K. Nakamatsu, J.M. Abe, and A. Suzuki. A railway interlocking safety verification system based on abductive paraconsistent logic programming. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 775–784. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [Nds02] P. Navarrete and J. Ruiz del solar. Eigenspace-based face recognition: A comparative study of different hybrid approaches. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 663–672. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [NSS02] J.J. Nolan, A.K. Sood, and R. Simon. Sadisco: A scalable agent discovery and composition mechanism. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 519–528. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [OC02] N. Ait Oufroukh and E. Colle. Pattern recognition with ultrasonic sensor using classification methods. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 673–680. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [Oja02] Erkki Oja. Independent component analysis. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, page 3. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [PL02] R.B. Cavalcante Prudêncio and T.B. Ludermir. Selection of models for time series prediction via meta-learning. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 74–83. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [RAZ02] E. Rakus-Andersson and L. Zakrzewski. Factor analysis with qualitative factors as fuzzy numbers. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 105–114. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [RC02] B. Ribeiro and P. Carvalho. Mercer’s kernel based learning for fault detection. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 341–350. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [RMP02] 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 Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 500–512. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [Rod02] M.A. Rodríguez. A spatial dimension for searching the world wide web. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 583–592. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [Rum02] G.W. Rumantir. Frequent flyer points calculator: More than just a table lookup. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 871–880. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [SC02a] E. Sanchis and M.J. Castro. Dialogue act connectionist detection in a spoken dialogue system. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 644–651. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [SC02b] M.P. Sinka and D.W. Corne. Web and multimedia applications. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 881–890. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [SH02] R. Saegusa and S. Hashimoto. Nonlinear principal component analysis to preserve the order of principal components. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 54–63. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [Sha02] D. Sharma. Unilr: An automated fuzzy legal reasoner. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 433–441. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [SN02] B. Shekar and R. Natarajan. A fuzzy relatedness measure for determining interestingness of association rules. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 95–104. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [Sun02] Andrew H. Sung. Role of soft computing in internet security. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, page 8. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.



- [SY02a] F. Sugimoto and M. Yoneyama. A trial method to create a natural interaction in interactive genetic algorithm. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 652–662. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [SY02b] W. Sunayama and M. Yachida. Panoramic view system for extracting key sentences based on viewpoints and an application to a search engine. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 863–870. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [TP02] S. Torres and J. Pezoa. Scene-based nonuniformity correction method using the inverse covariance form of the kalman filter. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 715–724. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [VK02] C. Veenhuis and M. Köppen. Document oriented modeling of cellular automata. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 309–320. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [VM02] S.V.N. Vishwanthan and M.N. Murty. Jigsawing : A method to create virtual examples in ocr data. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 690–696. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [VRT02] E. Vera, R. Reeves, and S. Torres. Adaptive bias compensation for non-uniformity correction on infrared focal plane array detectors. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 725–734. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [VYAW02] J.D. Velásquez, H. Yasuda, T. Aoki, and R. Weber. Voice codification using self organizing maps as data mining tool. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 480–489. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [Wal02] R.L. Walker. Simulating an information ecosystem within the www. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 891–900. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [WAS02] X. Wang, A. Abraham, and K.A. Smith. Web traffic mining using a concurrent neuro-fuzzy approach. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 853–862. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [WG02] K.C. Wiese and E. Glen. A permutation based genetic algorithm for rna secondary structure prediction. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 173–182. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.

- [WMD02] G. Weidl, A. Madsen, and E. Dahlquist. Condition monitoring, root cause analysis and decision support on urgency of actions. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 221–230. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [WS02] X. Wang and K.A. Smith. Clustering web user interests using self organising maps. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 843–852. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [YP02] R.S. Youssif and C.N. Purdy. Combining genetic algorithms and neural networks to build a signal pattern classifier. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 735–744. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [ZC02] F. Zambetta and G. Catucci. Designing not-so-dull virtual dolls. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 513–518. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [Zem02] S. Zemke. Ensembles in practice: Predication, estimation, multi-feature and noisy data. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 404–416. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [ZGF02] C.H. Zanni, M. Le Goc, and C.S. Frydman. Towards a unique framework to describe and compare diagnosis approaches. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 231–240. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [Zia02] W. Ziarko. Set approximation quality measures in the variable precision rough set model. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 442–452. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [ZS02] P. Zegers and M.K. Sundareshan. Determining the degree of generalization using an incremental learning algorithm. In Ajith Abraham, Javier Ruiz-del-Solar, and Mario Köppen, editors, *Soft Computing Systems - Design, Management and Applications*, Frontiers in Artificial Intelligence and Applications Vol. 87, pages 261–270. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.