## Список литературы

- [Abraham et al.(2002)Abraham, Ruiz-del-Solar, and Köppen] A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds., Soft Computing Systems Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications, vol. 87. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002.
- [Oja(2002)] E. Oja, "Independent component analisys," in Soft Computing Systems Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, p. 3.
- [de Baets(2002)] B. de Baets, "Fuzzy set theory a playground for mathematicians," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, p. 4.
- [Khatib(2002)] O. Khatib, "Robots for the human and haptic interaction," in Soft Computing Systems Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, p. 5.
- [Langdon(2002)] W. B. Langdon, "A hybrid genetic programming neural network classifier for use in drug discovery," in Soft Computing Systems - Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, p. 6.
- [Kacprzyk and Zadrony(2002)] J. Kacprzyk and S. Zadrony, "Protoforms of linguistic data summaries: Towards more general natural-language-based data minig tools," in Soft Computing Systems Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, p. 7.
- [Sung(2002)] A. H. Sung, "Role of soft computing in internet security," in Soft Computing Systems -Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, p. 8.
- [Dote(2002)] Y. Dote, "Neuro-fuzzy control," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruizdel-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 9–10.
- [Letelier et al.(2002a)Letelier, Martin, Mpodozis, and Andrade] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, p. 11.
- [Amali et al.(2002)Amali, Vinney, Noroozi, and Patel] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 15–20.
- [Lee et al.(2002)Lee, Palmer-Brown, Tepper, and Roadknight] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 21–31.

- [Fdez-Riverola and Corchado(2002)] F. Fdez-Riverola and J. Corchado, "An automated hybrid reasoning system for forecasting," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruizdel-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 31–41.
- [Bologna(2002)] G. Bologna, "Rule extraction from bagged neural networks," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 42–53.
- [Saegusa and Hashimoto(2002)] R. Saegusa and S. Hashimoto, "Nonlinear principal component analysis to preserve the order of principal components," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 54–63.
- [Minami and Inui(2002)] T. Minami and T. Inui, "A neural network model of rule-guided behavior," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 64–73.
- [Prudêncio and Ludermir(2002)] R. C. Prudêncio and T. Ludermir, "Selection of models for time series prediction via meta-learning," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 74–83.
- [K. Cios and W. Swiercz(2002)] 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, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 84–94.
- [Shekar and Natarajan(2002)] B. Shekar and R. Natarajan, "A fuzzy relatedness measure for determining interestingness of association rules," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 95–104.
- [Rakus-Andersson and Zakrzewski(2002)] E. Rakus-Andersson and L. Zakrzewski, "Factor analysis with qualitative factors as fuzzy numbers," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruizdel-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 105–114.
- [Astrain et al.(2002)Astrain, Garitagoitia, Villadangos, Fariña, and Córdoba] 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, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 115–123.
- [Mastropasqua et al.(2002)Mastropasqua, Mosca, and Zambetta] D. Mastropasqua, N. Mosca, and F. Zambetta, "An xml-based specification of fuzzy logic controllers," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 124–131.

- [Ishibuchi and Yamamoto(2002)] H. Ishibuchi and T. Yamamoto, "Comparison of fuzzy rule selection criteria for classification problems," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruizdel-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 132–141.
- [Cock(2002)] M. D. Cock, "Linguistic hedges: a quantifier based approach," in Soft Computing Systems Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 142–152.
- [Ferreira(2002)] C. Ferreira, "Analyzing the founder effect in simulated evolutionary processes using gene expression programming," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruizdel-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 153–162.
- [Ishibuchi and Yoshida(2002)] H. Ishibuchi and T. Yoshida, "Hybrid evolutionary multi-objective optimization algorithms," in Soft Computing Systems Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 163–172.
- [Wiese and Glen(2002)] K. Wiese and E. Glen, "A permutation based genetic algorithm for rna secondary structure prediction," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruizdel-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 173–182.
- [Hirche et al.(2002)Hirche, Santibanez-Koref, and Boblan] S. Hirche, I. Santibanez-Koref, and I. Boblan, "Design of strong causal fitness functions," in Soft Computing Systems Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 183–192.
- [Beker and Hadany(2002)] T. Beker and L. Hadany, "Noise and elitism in evolutionary computation," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 193–203.
- [Letelier et al.(2002b)Letelier, Marín, Mpodozis, and Soto-Andrade] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 205–211.
- [Asseraf(2002)] M. Asseraf, "An efficient algorithm in optimal partition problem for trees induction," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 212–220.
- [Weidl et al.(2002)Weidl, Madsen, and Dahlquist] 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, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 221–230.
- [Zanni et al.(2002)Zanni, Goc, and Frydman] 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*, ser. Frontiers in Artificial Intelligence and Applications

- Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 231–240.
- [Jedrzejowicz and Jedrzejowicz(2002)] J. Jedrzejowicz and P. Jedrzejowicz, "Experimental evaluation of the pla-based permutation-scheduling," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruizdel-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 241–250.
- [Batista and Monard(2002)] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 251–260.
- [Zegers and Sundareshan(2002)] P. Zegers and M. Sundareshan, "Determining the degree of generalization using an incremental learning algorithm," in Soft Computing Systems - Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 261–270.
- [Knowles and Corne(2002)] 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, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 271–279.
- [Gokcen et al.(2002)Gokcen, Peng, and Buckles] I. Gokcen, J. Peng, and B. Buckles, "Active learning using one-class classification," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 280–289.
- [Dixon et al.(2002)Dixon, Corne, and Oates] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 290–299.
- [Kawamae(2002)] N. Kawamae, "Latent semantic indexing based on factor analysis," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 300–308.
- [Veenhuis and Köppen(2002)] C. Veenhuis and M. Köppen, "Document oriented modeling of cellular automata," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 309–320.
- [Ali and Abraham(2002)] A. S. Ali and A. Abraham, "An empirical comparison of kernel selection for support vector machines," in Soft Computing Systems - Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 321–330.
- [Liu and Xu(2002)] Z. Liu and Y. Xu, "Adaptive support vector classifications," in Soft Computing Systems - Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 331–340.

- [Ribeiro and Carvalho (2002)] B. Ribeiro and P. Carvalho, "Mercer's kernel based learning for fault detection," in Soft Computing Systems Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 341–350.
- [Mukkamala and Sung(2002)] S. Mukkamala and A. Sung, "Performance based feature identification for intrusion detection using support vector machines," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 351–364.
- [Mora-Jiménez et al.(2002)Mora-Jiménez, Lyhyaoui, Arenas-García, Navia-Vázquez, and Figueiras-Vidal] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 365–373.
- [Lenic and Kokol(2002)] M. Lenic and P. Kokol, "Combining classifiers with multimethod approach," in Soft Computing Systems Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 374–383.
- [Maturana and Weber(2002)] C. Maturana and R. Weber, "Feature extraction by distance neural network in classification tasks," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruizdel-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 384–393.
- [D. Partridge(2002)] S. C. D. Partridge, "Revealing feature interactions in classification tasks," in Soft Computing Systems - Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 394–403.
- [Zemke(2002)] S. Zemke, "Ensembles in practice: Predication, estimation, multi-feature and noisy data," in Soft Computing Systems Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 404–416.
- [Kacprzyk and Zadrozny(2002)] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 417–425.
- [Aguilar and Perozo(2002)] J. Aguilar and N. Perozo, "Sparse distributed memory with adaptive threshold," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 426–432.
- [Sharma(2002)] D. Sharma, "Unilr: An automated fuzzy legal reasoner," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 433–441.
- [Ziarko(2002)] W. Ziarko, "Set approximation quality measures in the variable precision rough set model," in Soft Computing Systems - Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 442–452.

- [Jr. et al.(2002)Jr., Hruschka, and Ebecken] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 453–461.
- [Chervonenkis(2002)] A. J. Chervonenkis, "Reconstruction of conditional distribution field based on empirical data," in Soft Computing Systems - Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 462–469.
- [Jakovlevich(2002)] C. Jakovlevich, "Reconstruction of conditional distribution field based on empirical data," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 462–469.
- [Macedo and Mamdani(2002)] S. Macedo and E. Mamdani, "Bi-directional flow of information in the softboard architecture," in Soft Computing Systems - Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 470–479.
- [Velásquez et al.(2002)Velásquez, Yasuda, Aoki, and Weber] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 480–489.
- [M. C. Martins(2002)] I. G. M. C. Martins, "Identifying patterns of corporate tax payment," in Soft Computing Systems - Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 490–499.
- [Ramos et al.(2002)Ramos, Muge, and Pina] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 500–512.
- [Zambetta and Catucci(2002)] F. Zambetta and G. Catucci, "Designing not-so-dull virtual dolls," in Soft Computing Systems Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 513–518.
- [Nolan et al.(2002)Nolan, Sood, and Simon] J. Nolan, A. Sood, and R. Simon, "Sadisco: A scalable agent discovery and composition mechanism," in Soft Computing Systems Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 519–528.
- [Gouarderes et al.(2002)Gouarderes, Gouarderes, and Delpy] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 529–539.
- [Iba et al.(2002)Iba, Tokui, and Wakaki] 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, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 540-549.

- [Marik and Mashkov(2002)] V. Marik and V. Mashkov, "Alliance formation with several coordinators," in Soft Computing Systems - Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 550–564.
- [Baeza-Yates and Castillo(2002)] R. Baeza-Yates and C. Castillo, "Balancing volume, quality and freshness in web crawling," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 565–572.
- [Angkawattanawit and Rungsawang (2002)] N. Angkawattanawit and A. Rungsawang, "Learnable topic-specific web crawler," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 573–582.
- [Rodríguez(2002)] M. Rodríguez, "A spatial dimension for searching the world wide web," in Soft Computing Systems Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 583–592.
- [Morales and Gutiérrez(2002)] E. Morales and C. Gutiérrez, "Building yearbooks with rdf," in Soft Computing Systems Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 593–601.
- [Jarur and Rodríguez(2002)] M. Jarur and M. Rodríguez, "A non-deterministic versus deterministic algorithm for searching spatial configurations," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 602–611.
- [Marin(2002)] M. Marin, "Parallel text query processing using composite inverted lists," in Soft Computing Systems - Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 612–624.
- [Kumar(2002)] V. Kumar, "Human reasoning in soft computing," in Soft Computing Systems Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 625–633.
- [do Nascimento and Eades(2002)] 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, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 634–643.
- [Sanchis and Castro(2002)] E. Sanchis and M. Castro, "Dialogue act connectionist detection in a spoken dialogue system," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 644–651.
- [Sugimoto and Yoneyama(2002)] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 652–662.

- [Navarrete and del solar(2002)] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 663–672.
- [Oufroukh and Colle(2002)] N. A. Oufroukh and E. Colle, "Pattern recognition with ultrasonic sensor using classification methods," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 673–680.
- [Vishwanthan and Murty(2002)] S. Vishwanthan and M. Murty, "Jigsawing: A method to create virtual examples in ocr data," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 690–696.
- [Haindl and äimberová(2002)] M. Haindl and S. äimberová, "Model-based restoration of short-exposure solar images," in Soft Computing Systems Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 697–706.
- [Brouwer(2002)] R. Brouwer, "Using a helper ffn to represent the cost function for training drnn's by gradient descent," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 707–714.
- [Torres and Pezoa(2002)] 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, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 715–724.
- [Vera et al.(2002)Vera, Reeves, and Torres] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 725–734.
- [Youssif and Purdy(2002)] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 735–744.
- [Murakami et al.(2002)Murakami, Yoneyama, and Shirai] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 745–754.
- [Montiel et al.(2002)Montiel, Castillo, Melin, and Sepulveda] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 755–764.

- [Köppen et al.(2002)Köppen, Garcia, Liu, and Nickolay] 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, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 765–774.
- [Nakamatsu et al.(2002)Nakamatsu, Abe, and Suzuki] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 775–784.
- [Kramer et al.(2002)Kramer, Patzwahl, and Nacke] 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, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 785–795.
- [Castilho et al.(2002)Castilho, Nicoletti, and Debs] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 796–805.
- [Cuppens et al.(2002)Cuppens, Autrel, Miège, and Benferhat] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 806–817.
- [Cheng et al.(2002)Cheng, Chen, Tseng, Fu, and Pao] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruizdel-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 818–829.
- [Heinen and Osório(2002)] F. Heinen and F. Osório, "Hycar a robust hybrid control architecture for autonomous robots," in Soft Computing Systems - Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 830–842.
- [Wang and Smith(2002)] X. Wang and K. Smith, "Clustering web user interests using self organising maps," in Soft Computing Systems - Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 843–852.
- [Wang et al.(2002)Wang, Abraham, and Smith] X. Wang, A. Abraham, and K. Smith, "Web traffic mining using a concurrent neuro-fuzzy approach," in Soft Computing Systems - Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 853–862.
- [Sunayama and Yachida(2002)] 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*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 863–870.

- [Rumantir(2002)] G. Rumantir, "Frequent flyer points calculator: More than just a table lookup," in Soft Computing Systems Design, Management and Applications, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 871–880.
- [Sinka and Corne(2002)] M. Sinka and D. Corne, "Web and multimedia applications," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 881–890.
- [Walker(2002)] R. Walker, "Simulating an information ecosystem within the www," in *Soft Computing Systems Design, Management and Applications*, ser. Frontiers in Artificial Intelligence and Applications Vol. 87, A. Abraham, J. Ruiz-del-Solar, and M. Köppen, Eds. IOS Press Amsterdam, Berlin, Oxford, Tokyo, Washington D.C., 2002, pp. 891–900.