## Список литературы

- [Abualrub et al.(2005)Abualrub, Ghrayeb, and Zeng] T. Abualrub, A. Ghrayeb, and X. Zeng. 2005. A special class of additive cyclic codes for dna computing. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 284–287, Coimbra, Portugal. Springer.
- [Acan and Gunay(2005)] A. Acan and A. Gunay. 2005. An external memory supported aco for the frequency assignment problem. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 365–368, Coimbra, Portugal. Springer.
- [Affenzeller and Wagner(2005)] M. Affenzeller and S. Wagner. 2005. Offspring selection: A new self-adaptive selection scheme for genetic algorithms. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 218–221, Coimbra, Portugal. Springer.
- [Agrawal et al.(2005)Agrawal, Mitchell, Passmore, and Litovski] A. Agrawal, I. Mitchell, P. Passmore, and I. Litovski. 2005. Dynamics in proportionate selection. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 226–229, Coimbra, Portugal. Springer.
- [Altincay(2005)] H. Altincay. 2005. An evidence theoretic ensemble design technique. In *Adaptive* and *Natural Computing Algorithms*, Springer Computer Series, pages 66–69, Coimbra, Portugal. Springer.
- [Avila et al.(2005)Avila, Tsuji, and Shiraishi] C. Avila, Y. Tsuji, and Y. Shiraishi. 2005. Crack width prediction of rc structures by artificial neural networks. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 92–95, Coimbra, Portugal. Springer.
- [Barth and Gomi(2005)] F. Barth and E. Gomi. 2005. A meta-level architecture for adaptive applications. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 329–332, Coimbra, Portugal. Springer.
- [Barzamini et al.(2005)Barzamini, Menhaj, Kamalvand, and Fasihi] R. Barzamini, M. B. Menhaj, S. Kamalvand, and M. A. Fasihi. 2005. A new neuro-based method for short term load forecasting of iran national power system. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 373–376, Coimbra, Portugal. Springer.
- [Bauk et al.(2005)Bauk, Perovich, and Lompar] S. I. Bauk, S. M. Perovich, and A. Lompar. 2005. The linear approximation method to the modified hopfield neural network parameters analysis. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 29–32, Coimbra, Portugal. Springer.
- [Beliczynski(2005)] B. Beliczynski. 2005. Certain comments on data preparation for neural networks based modelling. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 5–8, Coimbra, Portugal. Springer.
- [Bellil et al.(2005)Bellil, Amar, and Alimi] W. Bellil, C. Amar, and A. Alimi. 2005. Beta wavelet networks for function approximation. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 18–21, Coimbra, Portugal. Springer.
- [Bingul and Ertunc(2005)] Z. Bingul and H. M. Ertunc. 2005. Applying neural network to inverse kinematic problem for 6r robot manipulator with offset wrist. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 112–115, Coimbra, Portugal. Springer.
- [Bisler(2005)] A. Bisler. 2005. Emergent behavior of interacting groups of communicative agents. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 316–320, Coimbra, Portugal. Springer.
- [Bontempi et al.(2005)Bontempi, Birattari, and Meyer] G. Bontempi, M. Birattari, and P. E. Meyer. 2005. Combining lazy learning, racing and subsampling for effective feature selection. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 393–396, Coimbra, Portugal. Springer.

- [Boubacar et al.(2005)Boubacar, Lecoeuche, and Maouche] H. A. Boubacar, S. Lecoeuche, and S. Maouche. 2005. Audyc neural network using a new gaussian densities merge mechanism. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 155–158, Coimbra, Portugal. Springer.
- [Boudjemai et al.(2005)Boudjemai, Enberg, and Postaire] F. Boudjemai, P. B. Enberg, and J. G. Postaire. 2005. 3d self organizing convex neural network architectures. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 164–167, Coimbra, Portugal. Springer.
- [Boudour and Hellal(2005)] M. Boudour and A. Hellal. 2005. The growing hierarchical self-organizing feature maps and genetic algorithms for large scale power system security. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 159–163, Coimbra, Portugal. Springer.
- [Boumehraz and Benmahammed(2005)] M. Boumehraz and K. Benmahammed. 2005. A switching controller for nonlinear systems via fuzzy models. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 120–123, Coimbra, Portugal. Springer.
- [Braught(2005)] G. W. Braught. 2005. Evolving evolvability: Evolving both representations and operators. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 185–188, Coimbra, Portugal. Springer.
- [Brunetti et al.(2005)Brunetti, Dutta, Liberatori, Mori, and Varrazzo] S. Brunetti, D. Dutta, S. Liberatori, E. Mori, and D. Varrazzo. 2005. An efficient algorithm for de novo peptide sequencing. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 312–315, Coimbra, Portugal. Springer.
- [Camolesi(2005)] A. R. Camolesi. 2005. Modeling a tool for the generation of programming environments for adaptive formalisms. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 337–340, Coimbra, Portugal. Springer.
- [Cao et al.(2005a)Cao, Pan, and Wang] W. Cao, X. Pan, and S. Wang. 2005a. The research of speaker-independent continuous mandarin chinese digits speech-recognition based on the dynamic search method of high-dimension space vertex cover. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 490–493, Coimbra, Portugal. Springer.
- [Cao et al.(2005b)Cao, Xu, and Wang] W. Cao, C. Xu, and S. Wang. 2005b. An algorithm for face pose adjustment based on eye location. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 474–477, Coimbra, Portugal. Springer.
- [Ciglaric et al.(2005)Ciglaric, M. Pancur, and Dobnikar] M. Ciglaric, B. Ster M. Pancur, and A. Dobnikar. 2005. Datamining in grid environment. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 522–525, Coimbra, Portugal. Springer.
- [Corchado et al.(2005)Corchado, Herrero, Baruque, and Saiz] E. Corchado, A. Herrero, B. Baruque, and J. M. Saiz. 2005. Intrusion detection system based on a cooperative topology preserving method. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 454–457, Coimbra, Portugal. Springer.
- [Cruz(2005)] P. Cruz. 2005. Speeding up backpropagation with multiplicative batch update step. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 22–24, Coimbra, Portugal. Springer.
- [Curran and O'Riordan(2005)] D. Curran and C. O'Riordan. 2005. Evolving blackjack strategies using cultural learning. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 210–213, Coimbra, Portugal. Springer.
- [Da Costa and Landry(2005)] L. E. Da Costa and J.-A. Landry. 2005. Generating grammatical plant models with genetic algorithms. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 230–234, Coimbra, Portugal. Springer.

- [Dantas and Seixas(2005)] A. Dantas and J. Seixas. 2005. An adaptive neural system for financial time series tracking. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 421–424, Coimbra, Portugal. Springer.
- [Davey et al.(2005)Davey, Calcraft, and Adams] N. Davey, L. Calcraft, and R. Adams. 2005. Associative memories with small world connectivity. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 74–77, Coimbra, Portugal. Springer.
- [de Abreu de Sousa and Hirakawa(2005)] Miguel Angelo de Abreu de Sousa and Andre Riyuita Hirakawa. 2005. Robotic mapping and navigation in unknown environments using adaptive automata. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 345–348, Coimbra, Portugal. Springer.
- [Doan and Horiguchi(2005)] S. Doan and S. Horiguchi. 2005. The use of multi-criteria in feature selection to enhance text categorization. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 441–444, Coimbra, Portugal. Springer.
- [Doherty et al.(2005)Doherty, Adams, and Davey] K. A. J. Doherty, R. G. Adams, and N. Davey. 2005. Hierarchical growing neural gas. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 140–143, Coimbra, Portugal. Springer.
- [Dongfeng and Wenhui (2005)] H. Dongfeng and Li Wenhui. 2005. A binary digital watermarking scheme based on the orthogonal vector and ica-scs denoising. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 466–469, Coimbra, Portugal. Springer.
- [Eidson et al.(2005)Eidson, Hamilton, and Kanevsky] J. Eidson, B. Hamilton, and V. Kanevsky. 2005. Learning from randomly-distributed inaccurate measurements. In Adaptive and Natural Computing Algorithms, Springer Computer Series, pages 54–61, Coimbra, Portugal. Springer.
- [Gabrijel and Dobnikar(2005)] I. Gabrijel and A. Dobnikar. 2005. On-line inference of finite automata in noisy environments. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 132–135, Coimbra, Portugal. Springer.
- [Gangadhar(2005)] D. Gangadhar. 2005. Pelican protein-structure alignment using cellular automaton models. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 308–311, Coimbra, Portugal. Springer.
- [Garcia and Moreno(2005)] C. Garcia and J. Moreno. 2005. An efficient heuristic for the traveling salesman problem based on a growing som-like algorithm. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 177–180, Coimbra, Portugal. Springer.
- [Gaspar-Cunha(2005)] A. Gaspar-Cunha. 2005. A multi-objective evolutionary algorithm for solving traveling salesman problems: Application to the design of polymer extruders. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 189–193, Coimbra, Portugal. Springer.
- [Gupta and Agrawal(2005)] N. Gupta and V. K. Agrawal. 2005. Two-criterion optimization in state assignment for synchronous finite state machines using nsga-ii. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 214–217, Coimbra, Portugal. Springer.
- [Hayward (2005)] S. Hayward. 2005. Genetic algorithm optimization of an artificial neural network for financial applications. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 409–416, Coimbra, Portugal. Springer.
- [Helle and Saxen(2005)] M. Helle and H. Saxen. 2005. A method for detecting cause-effects in data from complex processes. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 104–107, Coimbra, Portugal. Springer.
- [Holena(2005)] M. Holena. 2005. Neural-networks for extraction of fuzzy logic rules with application to eeg data. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 369–372, Coimbra, Portugal. Springer.

- [Honig and Schiffmann(2005)] U. Honig and W. Schiffmann. 2005. Comparison of nature inspired and deterministic scheduling heuristics considering optimal schedules. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 361–364, Coimbra, Portugal. Springer.
- [Horzyk(2005)] A. Horzyk. 2005. Interval basis neural network. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 50–53, Coimbra, Portugal. Springer.
- [Hoshino(2005)] O. Hoshino. 2005. Cortical modulation of synaptic efficacies through norepinephrine. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 70–73, Coimbra, Portugal. Springer.
- [Huk and Kwasnicka(2005)] M. Huk and H. Kwasnicka. 2005. The concept and properties of sigmaif neural network. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 13–17, Coimbra, Portugal. Springer.
- [Jankovic and Ogawa(2005)] M. Jankovic and H. Ogawa. 2005. Time-oriented hierarchical method for computation of minor components. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 38–41, Coimbra, Portugal. Springer.
- [Jedrzejowicz and Jedrzejowicz(2005)] J. Jedrzejowicz and P. Jedrzejowicz. 2005. Implementation and experimental validation of the population learning algorithm applied to solving qap instances. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 198–201, Coimbra, Portugal. Springer.
- [Jelleli and Alimi(2005)] T. M. Jelleli and A. M. Alimi. 2005. Improved hierarchical fuzzy control scheme. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 128–131, Coimbra, Portugal. Springer.
- [Jonkergouw et al.(2005) Jonkergouw, Keedwell, and Khul P. Jonkergouw, E. Keedwell, and S.-T. Khu. 2005. Modelling chlorine decay in water networks with genetic programming. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 206–209, Coimbra, Portugal. Springer.
- [Joshi et al.(2005)Joshi, Reeves, and Johnston] R. Joshi, C. Reeves, and C. Johnston. 2005. Probabilistic artificial neural networks for malignant melanoma prognosis. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 425–428, Coimbra, Portugal. Springer.
- [Kaewkamnerdpong and Bentley(2005)] B. Kaewkamnerdpong and P. J. Bentley. 2005. Perceptive particle swarm optimisation. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 259–263, Coimbra, Portugal. Springer.
- [Kaklamanos and Margaritis (2005)] D. G. Kaklamanos and K. G. Margaritis. 2005. Personalized news access. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 397–400, Coimbra, Portugal. Springer.
- [Kawasnicka and Paradowski (2005)] H. Kawasnicka and M. Paradowski. 2005. Efficiency aspects of neural network architecture evolution using direct and indirect encoding. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 405–408, Coimbra, Portugal. Springer.
- [Kherallah et al.(2005)Kherallah, Bouri, and Alimi] M. Kherallah, F. Bouri, and M. A. Alimi. 2005. Toward an on-line handwriting recognition system based on visual coding and genetic algorithm. In Adaptive and Natural Computing Algorithms, Springer Computer Series, pages 502–505, Coimbra, Portugal. Springer.
- [Kilani and Mohdzin(2005)] Y. Kilani and A. Mohdzin. 2005. Treating some constraints as hard speeds up the esg local search algorithm. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 247–249, Coimbra, Portugal. Springer.
- [Kita et al.(2005)Kita, Maekawa, Ozawa, and Abe] S. Kita, S. Maekawa, S. Ozawa, and S. Abe. 2005. Boosting kernel discriminant analysis with adaptive kernel selection. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 429–432, Coimbra, Portugal. Springer.

- [Koppen et al.(2005)Koppen, Vicente-Garcia, and Nickolay] M. Koppen, R. Vicente-Garcia, and B. Nickolay. 2005. The pareto-box problem for the modelling of evolutionary multiobjective optimization algorithms. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 194–197, Coimbra, Portugal. Springer.
- [Koutnik and Snorek(2005)] J. Koutnik and M. Snorek. 2005. Neural network generating hidden markov chain. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 518–521, Coimbra, Portugal. Springer.
- [Krishna et al.(2005)Krishna, Narayanan, and Keedwell] A. Krishna, A. Narayanan, and E. C. Keedwell. 2005. Reverse engineering gene networks with artificial neural networks. In Adaptive and Natural Computing Algorithms, Springer Computer Series, pages 325–328, Coimbra, Portugal. Springer.
- [Kubalik(2005)] J. Kubalik. 2005. Using genetic algorithms with real-coded binary representation for solving non-stationary problems. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 222–225, Coimbra, Portugal. Springer.
- [Kurkova(2005)] V. Kurkova. 2005. Minimization of empirical error over perceptron networks. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 46–49, Coimbra, Portugal. Springer.
- [Lamrini et al.(2005)Lamrini, Benhammou, Karama, and Lann] B. Lamrini, A. Benhammou, A. Karama, and M-V. Le Lann. 2005. A neural network system for modelling of coagulant dosage used in drinking water treatment. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 96–99, Coimbra, Portugal. Springer.
- [Li et al.(2005a)Li, Li, Teng, and Wang] Kangshun Li, Yuanxiang Li, Chong Teng, and Yuhua Wang. 2005a. Solving the roots of cyclic-code generated polynomial by using evolutionary computation. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 449–453, Coimbra, Portugal. Springer.
- [Li et al.(2005b)Li, Shi, and Shi] Q. Li, Z. Shi, and Z. Shi. 2005b. Swarm intelligence clustering algorithm based on attractor. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 353–356, Coimbra, Portugal. Springer.
- [Liu et al.(2005)Liu, Sung, and Ribeiro] Q. Liu, A. H. Sung, and B. M. Ribeiro. 2005. Statistical correlations and machine learning for steganalysis. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 437–440, Coimbra, Portugal. Springer.
- [Lobo et al.(2005)Lobo, Lima, and Martires] F. G. Lobo, C. F. Lima, and H. Martires. 2005. Massive parallelization of the compact genetic algorithm. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 530–533, Coimbra, Portugal. Springer.
- [Lotric and Dobnikar (2005)] U. Lotric and A. Dobnikar. 2005. Parallel implementations of feed-forward neural network using mpi and c# on .net platform. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 534–537, Coimbra, Portugal. Springer.
- [Machado and Lopes(2005)] T. Rogalsky Machado and Heitor Silverio Lopes. 2005. A hybrid particle swarm optimization model for the traveling salesman problem. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 255–258, Coimbra, Portugal. Springer.
- [Marolt(2005)] M. Marolt. 2005. A connectionist model of finding partial groups in music recordings with application to music transcription. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 494–497, Coimbra, Portugal. Springer.
- [Marzouki and Yamakawa(2005)] K. Marzouki and T. Yamakawa. 2005. Novel learning algorithm aiming at generating a unique units distribution in standard som. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 168–172, Coimbra, Portugal. Springer.

- [Moller(2005)] U. Moller. 2005. Estimating the number of clusters from distributional results of partitioning a given data set. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 151–154, Coimbra, Portugal. Springer.
- [Morita(2005)] S. Morita. 2005. Simulating binocular eye movements based on 3-d short-term memory image in reading. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 470–473, Coimbra, Portugal. Springer.
- [Mukkamala et al.(2005)Mukkamala, Sung, and Ribeiro] S. Mukkamala, A. H. Sung, and B. M. Ribeiro. 2005. Model selection for kernel based intrusion detection systems. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 458–461, Coimbra, Portugal. Springer.
- [Murata and Ozawa(2005)] M. Murata and S. Ozawa. 2005. A memory-based reinforcement learning model utilizing macro-actions. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 78–81, Coimbra, Portugal. Springer.
- [Neto and Silva(2005)] J. J. Neto and P. S. M. Silva. 2005. An adaptive framework for the design of software specification languages. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 349–352, Coimbra, Portugal. Springer.
- [Niska et al.(2005)Niska, Hiltunen, Karppinen, and Kolehmainen] H. Niska, T. Hiltunen, A. Karppinen, and M. Kolehmainen. 2005. Evolutionary design and evaluation of modeling system for forecasting urban airborne maximum pollutant concentrations. In Adaptive and Natural Computing Algorithms, Springer Computer Series, pages 181–184, Coimbra, Portugal. Springer.
- [Ohba and Ishida(2005)] T. Ohba and M. Ishida. 2005. Competitive decentralized autonomous neural net controllers. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 124–127, Coimbra, Portugal. Springer.
- [Oliveira et al.(2005)Oliveira, Cunha, Clemente, and Carrondo] R. Oliveira, A. Cunha, J. Clemente, and M. J. T. Carrondo. 2005. Adaptive do-based control of substrate feeding in high cell density cultures operated under oxygen transfer limitation. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 300–303, Coimbra, Portugal. Springer.
- [Oliveira and Salcedo(2005)] R. Oliveira and R. Salcedo. 2005. Benchmark testing of simulated annealing, adaptive random search and genetic algorithms for the global optimization of bioprocesses. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 292–295, Coimbra, Portugal. Springer.
- [Osterman et al.(2005)Osterman, Rego, and Gamboa] C. Osterman, C. Rego, and D. Gamboa. 2005. The satellite list: A reversible doubly-linked list. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 542–545, Coimbra, Portugal. Springer.
- [Palmer-Brown and Kang(2005)] D. Palmer-Brown and M. Kang. 2005. Adfunn: An adaptive function neural network. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 1–4, Coimbra, Portugal. Springer.
- [Pearson and Batton-Hubert (2005)] D. W. Pearson and M. Batton-Hubert. 2005. Improved clustering by rotation of cluster centres. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 136–139, Coimbra, Portugal. Springer.
- [Peck et al.(2005)Peck, Kozloski, Cecchi, and Rao] C. C. Peck, J. Kozloski, G. A. Cecchi, and A. R. Rao. 2005. A biologically motivated classifier that preserves implicit relationship information in layered networks. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 82–85, Coimbra, Portugal. Springer.
- [Pedrazzi et al.(2005)Pedrazzi, Tchemra, and Rocha] T. C. Pedrazzi, A. H. Tchemra, and R. L. A. Rocha. 2005. Adaptive decision tables: A case study of their application to decision-taking problems. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 341–344, Coimbra, Portugal. Springer.

- [Pereira and Rodrigues(2005)] A. Pereira and R. Rodrigues. 2005. Redundant quantum arithmetic. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 280–283, Coimbra, Portugal. Springer.
- [Perovich et al.(2005)Perovich, Bauk, and Konjevic] S. M. Perovich, S. I. Bauk, and N. Konjevic. 2005. The analytical analysis of hopfield neuron parameters by the application of special trans function theory. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 33–37, Coimbra, Portugal. Springer.
- [Petra and Terezie(2005)] K. Petra and S. Terezie. 2005. Product kernel regularization networks. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 433–436, Coimbra, Portugal. Springer.
- [Pinto et al.(2005)Pinto, Runkler, and Sousa] P. Pinto, T. A. Runkler, and J. M. Sousa. 2005. Wasp swarm optimization of logistic systems. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 264–267, Coimbra, Portugal. Springer.
- [Pistori et al.(2005)Pistori, Martins, and de Castro, Jr.] Hemerson Pistori, Priscila S. Martins, and Amaury A. de Castro, Jr. 2005. Adaptive finite state automata and genetic algorithms: Merging individual adaptation and population evolution. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 333–336, Coimbra, Portugal. Springer.
- [Rahnamayan et al.(2005)Rahnamayan, Tizhoosh, and Salama] S. Rahnamayan, H. R. Tizhoosh, and M. Salama. 2005. Learning image filtering from a gold sample based on genetic optimization of morphological processing. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 478–481, Coimbra, Portugal. Springer.
- [Rastegar et al.(2005)Rastegar, Hariri, and Meybodi] R. Rastegar, A. Hariri, and M. Meybodi. 2005. A fuzzy clustering algorithm using cellular learning automata based evolutionary algorithm. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 144–150, Coimbra, Portugal. Springer.
- [Rehor et al.(2005)Rehor, Tozicka, and Slavik] D. Rehor, J. Tozicka, and P. Slavik. 2005. Visualization of meta-reasoning in multi-agent systems. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 385–388, Coimbra, Portugal. Springer.
- [Rocha et al.(2005a)Rocha, Cortez, and Neves] M. Rocha, P. Cortez, and J. Neves. 2005a. Evolutionary design of neural networks for classification and regression. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 304–307, Coimbra, Portugal. Springer.
- [Rocha et al.(2005b)Rocha, Neves, and Veloso] M. Rocha, J. Neves, and A. Veloso. 2005b. Evolutionary algorithms for static and dynamic optimization of fed-batch fermentation processes. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 288–291, Coimbra, Portugal. Springer.
- [Ronnholm et al.(2005)Ronnholm, Arve, Eranen, Klingstedt, Salmi, Saxen, and Westerholm] M. Ronnholm, K. Arve, K. Eranen, F. Klingstedt, T. Salmi, H. Saxen, and J. Westerholm. 2005. Ann modeling applied to nox reduction with octane. ann future in personal vehicles. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 100–103, Coimbra, Portugal. Springer.
- [Saxen and Pettersson(2005)] H. Saxen and F. Pettersson. 2005. A simple method for selection of inputs and structure of feedforward neural networks. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 9–12, Coimbra, Portugal. Springer.
- [Schoeman and Engelbrecht(2005)] I. L Schoeman and A. P. Engelbrecht. 2005. A parallel vector-based particle swarm optimizer. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 268–271, Coimbra, Portugal. Springer.
- [Shakya et al.(2005)Shakya, McCall, and Brown] S. Shakya, J. McCall, and D. F. Brown. 2005. Estimating the distribution in an eda. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 202–205, Coimbra, Portugal. Springer.

- [Shibata(2005)] K. Shibata. 2005. Discretization of series of communication signals in noisy environment by reinforcement learning. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 486–489, Coimbra, Portugal. Springer.
- [Shirota et al.(2005)Shirota, Barretto, and Itiki] C. Shirota, M. Y. Barretto, and C. Itiki. 2005. Associative memories and diagnostic classification of emg signals. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 482–485, Coimbra, Portugal. Springer.
- [Sicard et al.(2005)Sicard, Ospina, and Velez] A. Sicard, J. Ospina, and M. Velez. 2005. Numerical simulations of a possible hypercomputational quantum algorithm. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 272–275, Coimbra, Portugal. Springer.
- [Silva and Ribeiro (2005)] C. Silva and B. Ribeiro. 2005. Text classification from partially labeled distributed data. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 445–448, Coimbra, Portugal. Springer.
- [Silva et al.(2005a)Silva, Sousa, Runkler, and da Costa] C. A. Silva, J. M. Sousa, T. Runkler, and J. M. G. Sa da Costa. 2005a. Ant-based distributed optimization for supply chain management. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 357–360, Coimbra, Portugal. Springer.
- [Silva et al.(2005b)Silva, Silva, and Costa] S. Silva, P. J. N. Silva, and E. Costa. 2005b. Resource-limited genetic programming: Replacing tree depth limits. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 243–246, Coimbra, Portugal. Springer.
- [Sima(2005)] J. Sima. 2005. Generating sequential triangle strips by using hopfield nets. In *Adaptive* and *Natural Computing Algorithms*, Springer Computer Series, pages 25–28, Coimbra, Portugal. Springer.
- [Soula et al.(2005)Soula, Beslon, and Favrel] H. Soula, G. Beslon, and J. Favrel. 2005. Evolution versus learning in temporal neural networks. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 42–45, Coimbra, Portugal. Springer.
- [Sun(2005)] H. Sun. 2005. Combining topological and cardinal directional relation information in qsr. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 62–65, Coimbra, Portugal. Springer.
- [Tambouratzis(2005)] T. Tambouratzis. 2005. Som-based estimation of meteorological profiles. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 173–176, Coimbra, Portugal. Springer.
- [Tamura et al.(2005)Tamura, Busquets-Mataix, Martin, and Campoy] E. Tamura, J. V. Busquets-Mataix, J. J. Serrano Martin, and A. M. Campoy. 2005. A comparison of three genetic algorithms for locking-cache contents selection in real-time systems. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 462–465, Coimbra, Portugal. Springer.
- [Tavares et al.(2005a)Tavares, Leitao, Pereira, and Costa] Jorge Tavares, Tiago Leitao, Francisco B. Pereira, and Ernesto Costa. 2005a. Evolving segments length in golomb rulers. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 239–242, Coimbra, Portugal. Springer.
- [Tavares et al.(2005b)Tavares, Pereira, and Costa] Jorge Tavares, Francisco B. Pereira, and Ernesto Costa. 2005b. Golomb rulers: Experiments with marks representation. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 235–238, Coimbra, Portugal. Springer.
- [Teixeira et al.(2005)Teixeira, Cunha, Clemente, Alves, Carrondo, and Oliveira] A. Teixeira, A. Cunha, J. Clemente, P. M. Alves, M. J. T. Carrondo, and R. Oliveira. 2005. Dynamic modelling and optimisation of a ammalian cells process using hybrid grey-box systems. In Adaptive and Natural Computing Algorithms, Springer Computer Series, pages 296–299, Coimbra, Portugal. Springer.

- [Torres and Rocco(2005)] D. Torres and C. Rocco. 2005. Assessing the reliability of complex networks through hybrid intelligent systems. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 510–513, Coimbra, Portugal. Springer.
- [Trebar and Lotric(2005)] M. Trebar and U. Lotric. 2005. Predictive data mining on rubber compound database. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 108–111, Coimbra, Portugal. Springer.
- [Udrescu et al.(2005)Udrescu, Prodan, and Vladutiu] M. Udrescu, L. Prodan, and M. Vladutiu. 2005. Efficient quantum circuits simulation with the bubble bit technique. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 276–279, Coimbra, Portugal. Springer.
- [Vaculin and Neruda(2005)] R. Vaculin and R. Neruda. 2005. Autonomous behavior of computational agents. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 514–517, Coimbra, Portugal. Springer.
- [Vieira et al.(2005)Vieira, Neves, and Ribeiro] A. Vieira, J. C. Neves, and B. Ribeiro. 2005. A method to improve generalization of neural networks: Application to the problem of bankruptcy prediction. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 417–420, Coimbra, Portugal. Springer.
- [Viet and Kleiber(2005)] N. Viet and M. Kleiber. 2005. Approximating the algebraic solution of systems of interval linear equations with use of neural networks. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 377–380, Coimbra, Portugal. Springer.
- [Wagner and Affenzeller(2005)] S. Wagner and M. Affenzeller. 2005. Heuristiclab: A generic and extensible optimization environment. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 538–541, Coimbra, Portugal. Springer.
- [Wang et al.(2005)Wang, Shi, Chen, Ge, Lee, and Liang] L. M. Wang, X.H. Shi, G.J. Chen, H. W. Ge, H. P. Lee, and Y. C. Liang. 2005. Applications of pso algorithm and oif elman neural network to assessment and forecasting for atmospheric quality. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 250–254, Coimbra, Portugal. Springer.
- [Wu et al.(2005)Wu, Liang, Lee, and Lu] C. Wu, Y. Liang, H. Lee, and C. Lu. 2005. Intelligent agent inspired genetic algorithm. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 389–392, Coimbra, Portugal. Springer.
- [Xin and Zuo(2005)] R.-M. Xin and W.-L. Zuo. 2005. A more accurate text classifier for positive and unlabeled data. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 401–404, Coimbra, Portugal. Springer.
- [Yatsuzuka and Ho(2005)] Y. Yatsuzuka and Y. Ho. 2005. Large scale hetero-associative networks with very high classification ability and attractor discrimination consisting of cumulative-learned 3-layer neural networks. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 86–91, Coimbra, Portugal. Springer.
- [Yoshikawa et al.(2005)Yoshikawa, Fujino, and Terai] Masaya Yoshikawa, Takeshi Fujino, and Hidekazu Terai. 2005. Parallel placement procedure based on distributed genetic algorithms. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 526–529, Coimbra, Portugal. Springer.
- [Zhang et al.(2005)Zhang, Sitte, and Rueckert] L. Zhang, J. Sitte, and U. Rueckert. 2005. Local cluster neural network chip for control. In *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pages 116–119, Coimbra, Portugal. Springer.