Список литературы

[1] Palmer-Brown D, Kang M. 2005 Adfunn: An adaptive function neural network. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 1–4. Coimbra, Portugal: Springer.

[2] Beliczynski B. 2005 Certain comments on data preparation for neural networks based modelling. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 5–8. Coimbra, Portugal: Springer.

[3] Saxen H, Pettersson F. 2005 A simple method for selection of inputs and structure of feedforward neural networks. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 9–12. Coimbra, Portugal: Springer.

[4] Huk M, Kwasnicka H. 2005 The concept and properties of sigma-if neural network. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 13–17. Coimbra, Portugal: Springer.

[5] Bellil W, Amar C, Alimi A. 2005 Beta wavelet networks for function approximation. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 18–21. Coimbra, Portugal: Springer.

[6] Cruz P. 2005 Speeding up backpropagation with multiplicative batch update step. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 22–24. Coimbra, Portugal: Springer.

[7] Sima J. 2005 Generating sequential triangle strips by using hopfield nets. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 25–28. Coimbra, Portugal: Springer.

[8] Bauk SI, Perovich SM, Lompar A. 2005 The linear approximation method to the modified hopfield neural network parameters analysis. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 29–32. Coimbra, Portugal: Springer.

[9] Perovich SM, Bauk SI, Konjevic N. 2005 The analytical analysis of hopfield neuron parameters by the application of special trans function theory. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 33–37. Coimbra, Portugal: Springer.

[10] Jankovic M, Ogawa H. 2005 Time-oriented hierarchical method for computation of minor components. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 38–41. Coimbra, Portugal: Springer.

[11] Soula H, Beslon G, Favrel J. 2005 Evolution versus learning in temporal neural networks. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 42–45. Coimbra, Portugal: Springer.

[12] Kurkova V. 2005 Minimization of empirical error over perceptron networks. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 46–49. Coimbra, Portugal: Springer.

[13] Horzyk A. 2005 Interval basis neural network. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 50–53. Coimbra, Portugal: Springer.

[14] Eidson J, Hamilton B, Kanevsky V. 2005 Learning from randomly-distributed inaccurate measurements. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 54–61. Coimbra, Portugal: Springer.

[15] Sun H. 2005 Combining topological and cardinal directional relation information in qsr. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 62–65. Coimbra, Portugal: Springer.

[16] Altincay H. 2005 An evidence theoretic ensemble design technique. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 66–69. Coimbra, Portugal: Springer.

[17] Hoshino O. 2005 Cortical modulation of synaptic efficacies through norepinephrine. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 70–73. Coimbra, Portugal: Springer.

[18] Davey N, Calcraft L, Adams R. 2005 Associative memories with small world connectivity. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 74–77. Coimbra, Portugal: Springer.

[19] Murata M, Ozawa S. 2005 A memory-based reinforcement learning model utilizing macro-actions. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 78–81. Coimbra, Portugal: Springer.

[20] Peck CC, Kozloski J, Cecchi GA, Rao AR. 2005 A biologically motivated classifier that preserves implicit relationship information in layered networks. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 82–85. Coimbra, Portugal: Springer.

[21] Yatsuzuka Y, Ho Y. 2005 Large scale hetero-associative networks with very high classification ability and attractor discrimination consisting of cumulative-learned 3-layer neural networks. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 86–91. Coimbra, Portugal: Springer.

[22] Avila C, Tsuji Y, Shiraishi Y. 2005 Crack width prediction of rc structures by artificial neural networks. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 92–95. Coimbra, Portugal: Springer.

[23] Lamrini B, Benhammou A, Karama A, Lann MVL. 2005 A neural network system for modelling of coagulant dosage used in drinking water treatment. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 96–99. Coimbra, Portugal: Springer.

[24] Ronnholm M, Arve K, Eranen K, Klingstedt F, Salmi T, Saxen H, Westerholm J. 2005 Ann modeling applied to nox reduction with octane. ann future in personal vehicles. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 100–103. Coimbra, Portugal: Springer.

[25] Helle M, Saxen H. 2005 A method for detecting cause-effects in data from complex processes. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 104–107. Coimbra, Portugal: Springer.

[26] Trebar M, Lotric U. 2005 Predictive data mining on rubber compound database. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 108–111. Coimbra, Portugal: Springer.

[27] Bingul Z, Ertunc HM. 2005 Applying neural network to inverse kinematic problem for 6r robot manipulator with offset wrist. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 112–115. Coimbra, Portugal: Springer.

[28] Zhang L, Sitte J, Rueckert U. 2005 Local cluster neural network chip for control. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 116–119. Coimbra, Portugal: Springer.

[29] Boumehraz M, Benmahammed K. 2005 A switching controller for nonlinear systems via fuzzy models. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 120–123. Coimbra, Portugal: Springer.

[30] Ohba T, Ishida M. 2005 Competitive decentralized autonomous neural net controllers. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 124–127. Coimbra, Portugal: Springer.

[31] Jelleli TM, Alimi AM. 2005 Improved hierarchical fuzzy control scheme. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 128–131. Coimbra, Portugal: Springer.

[32] Gabrijel I, Dobnikar A. 2005 On-line inference of finite automata in noisy environments. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 132–135. Coimbra, Portugal: Springer.

[33] Pearson DW, Batton-Hubert M. 2005 Improved clustering by rotation of cluster centres. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 136–139. Coimbra, Portugal: Springer.

[34] Doherty KAJ, Adams RG, Davey N. 2005 Hierarchical growing neural gas. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 140–143. Coimbra, Portugal: Springer.

[35] Rastegar R, Hariri A, Meybodi M. 2005 A fuzzy clustering algorithm using cellular learning automata based evolutionary algorithm. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 144–150. Coimbra, Portugal: Springer.

[36] Moller U. 2005 Estimating the number of clusters from distributional results of partitioning a given data set. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 151–154. Coimbra, Portugal: Springer.

[37] Boubacar HA, Lecoeuche S, Maouche S. 2005 Audyc neural network using a new gaussian densities merge mechanism. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 155–158. Coimbra, Portugal: Springer.

[38] Boudour M, Hellal A. 2005 The growing hierarchical self-organizing feature maps and genetic algorithms for large scale power system security. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 159–163. Coimbra, Portugal: Springer.

[39] Boudjemai F, Enberg PB, Postaire JG. 2005 3d self organizing convex neural network architectures. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 164–167. Coimbra, Portugal: Springer.

[40] Marzouki K, Yamakawa T. 2005 Novel learning algorithm aiming at generating a unique units distribution in standard som. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 168–172. Coimbra, Portugal: Springer.

[41] Tambouratzis T. 2005 Som-based estimation of meteorological profiles. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 173–176. Coimbra, Portugal: Springer.

[42] Garcia C, Moreno J. 2005 An efficient heuristic for the traveling salesman problem based on a growing som-like algorithm. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 177–180. Coimbra, Portugal: Springer.

[43] Niska H, Hiltunen T, Karppinen A, Kolehmainen M. 2005 Evolutionary design and evaluation of modeling system for forecasting urban airborne maximum pollutant concentrations. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 181–184. Coimbra, Portugal: Springer.

[44] Braught GW. 2005 Evolving evolvability: Evolving both representations and operators. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 185–188. Coimbra, Portugal: Springer.

[45] Gaspar-Cunha A. 2005 A multi-objective evolutionary algorithm for solving traveling salesman problems: Application to the design of polymer extruders. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 189–193. Coimbra, Portugal: Springer.

[46] Koppen M, Vicente-Garcia R, Nickolay B. 2005 The pareto-box problem for the modelling of evolutionary multiobjective optimization algorithms. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 194–197. Coimbra, Portugal: Springer.

[47] Jedrzejowicz J, Jedrzejowicz P. 2005 Implementation and experimental validation of the population learning algorithm applied to solving qap instances. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 198–201. Coimbra, Portugal: Springer.

[48] Shakya S, McCall J, Brown DF. 2005 Estimating the distribution in an eda. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 202–205. Coimbra, Portugal: Springer.

[49] Jonkergouw P, Keedwell E, Khu ST. 2005 Modelling chlorine decay in water networks with genetic programming. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 206–209. Coimbra, Portugal: Springer.

[50] Curran D, O'Riordan C. 2005 Evolving blackjack strategies using cultural learning. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 210–213. Coimbra, Portugal: Springer.

[51] Gupta N, Agrawal VK. 2005 Two-criterion optimization in state assignment for synchronous finite state machines using nsga-ii. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 214–217. Coimbra, Portugal: Springer.

[52] Affenzeller M, Wagner S. 2005 Offspring selection: A new self-adaptive selection scheme for genetic algorithms. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 218–221. Coimbra, Portugal: Springer.

[53] Kubalik J. 2005 Using genetic algorithms with real-coded binary representation for solving non-stationary problems. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 222–225. Coimbra, Portugal: Springer.

[54] Agrawal A, Mitchell I, Passmore P, Litovski I. 2005 Dynamics in proportionate selection. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 226–229. Coimbra, Portugal: Springer.

[55] Da Costa LE, Landry JA. 2005 Generating grammatical plant models with genetic algorithms. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 230–234. Coimbra, Portugal: Springer.

[56] Tavares J, Pereira FB, Costa E. 2005 Golomb rulers: Experiments with marks representation. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 235–238. Coimbra, Portugal: Springer.

[57] Tavares J, Leitao T, Pereira FB, Costa E. 2005 Evolving segments length in golomb rulers. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 239–242. Coimbra, Portugal: Springer.

[58] Silva S, Silva PJN, Costa E. 2005 Resource-limited genetic programming: Replacing tree depth limits. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 243–246. Coimbra, Portugal: Springer.

[59] Kilani Y, Mohdzin A. 2005 Treating some constraints as hard speeds up the esg local search algorithm. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 247–249. Coimbra, Portugal: Springer.

[60] Wang LM, Shi X, Chen G, Ge HW, Lee HP, Liang YC. 2005 Applications of pso algorithm and oif elman neural network to assessment and forecasting for atmospheric quality. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 250–254. Coimbra, Portugal: Springer.

[61] Machado TR, Lopes HS. 2005 A hybrid particle swarm optimization model for the traveling salesman problem. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 255– 258. Coimbra, Portugal: Springer.

[62] Kaewkamnerdpong B, Bentley PJ. 2005 Perceptive particle swarm optimisation. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 259–263. Coimbra, Portugal: Springer.

[63] Pinto P, Runkler TA, Sousa JM. 2005 Wasp swarm optimization of logistic systems. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 264–267. Coimbra, Portugal: Springer.

[64] Schoeman IL, Engelbrecht AP. 2005 A parallel vector-based particle swarm optimizer. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 268–271. Coimbra, Portugal: Springer.

[65] Sicard A, Ospina J, Velez M. 2005 Numerical simulations of a possible hypercomputational quantum algorithm. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 272–275. Coimbra, Portugal: Springer.

[66] Udrescu M, Prodan L, Vladutiu M. 2005 Efficient quantum circuits simulation with the bubble bit technique. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 276–279. Coimbra, Portugal: Springer.

[67] Pereira A, Rodrigues R. 2005 Redundant quantum arithmetic. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 280–283. Coimbra, Portugal: Springer.

[68] Abualrub T, Ghrayeb A, Zeng X. 2005 A special class of additive cyclic codes for dna computing. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 284–287. Coimbra, Portugal: Springer.

[69] Rocha M, Neves J, Veloso A. 2005 Evolutionary algorithms for static and dynamic optimization of fed-batch fermentation processes. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 288–291. Coimbra, Portugal: Springer.

[70] Oliveira R, Salcedo R. 2005 Benchmark testing of simulated annealing, adaptive random search and genetic algorithms for the global optimization of bioprocesses. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 292–295. Coimbra, Portugal: Springer.

[71] Teixeira A, Cunha A, Clemente J, Alves PM, Carrondo MJT, Oliveira R. 2005 Dynamic modelling and optimisation of a ammalian cells process using hybrid grey-box systems. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 296–299. Coimbra, Portugal: Springer.

[72] Oliveira R, Cunha A, Clemente J, Carrondo MJT. 2005 Adaptive do-based control of substrate feeding in high cell density cultures operated under oxygen transfer limitation. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 300–303. Coimbra, Portugal: Springer.

[73] Rocha M, Cortez P, Neves J. 2005 Evolutionary design of neural networks for classification and regression. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 304–307. Coimbra, Portugal: Springer.

[74] Gangadhar D. 2005 Pelican - protein-structure alignment using cellular automaton models. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 308–311. Coimbra, Portugal: Springer.

[75] Brunetti S, Dutta D, Liberatori S, Mori E, Varrazzo D. 2005 An efficient algorithm for de novo peptide sequencing. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 312–315. Coimbra, Portugal: Springer.

[76] Bisler A. 2005 Emergent behavior of interacting groups of communicative agents. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 316–320. Coimbra, Portugal: Springer.

[77] Krishna A, Narayanan A, Keedwell EC. 2005 Reverse engineering gene networks with artificial neural networks. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 325–328. Coimbra, Portugal: Springer.

[78] Barth F, Gomi E. 2005 A meta-level architecture for adaptive applications. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 329–332. Coimbra, Portugal: Springer.

[79] Pistori H, Martins PS, de Castro, Jr AA. 2005 Adaptive finite state automata and genetic algorithms: Merging individual adaptation and population evolution. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 333–336. Coimbra, Portugal: Springer.

[80] Camolesi AR. 2005 Modeling a tool for the generation of programming environments for adaptive formalisms. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 337–340. Coimbra, Portugal: Springer.

[81] Pedrazzi TC, Tchemra AH, Rocha RLA. 2005 Adaptive decision tables: A case study of their application to decision-taking problems. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 341–344. Coimbra, Portugal: Springer.

[82] de Abreu de Sousa MA, Hirakawa AR. 2005 Robotic mapping and navigation in unknown environments using adaptive automata. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 345–348. Coimbra, Portugal: Springer.

[83] Neto JJ, Silva PSM. 2005 An adaptive framework for the design of software specification languages. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 349–352. Coimbra, Portugal: Springer.

[84] Li Q, Shi Z, Shi Z. 2005 Swarm intelligence clustering algorithm based on attractor. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 353–356. Coimbra, Portugal: Springer.

[85] Silva CA, Sousa JM, Runkler T, da Costa JMGS. 2005 Ant-based distributed optimization for supply chain management. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 357–360. Coimbra, Portugal: Springer.

[86] Honig U, Schiffmann W. 2005 Comparison of nature inspired and deterministic scheduling heuristics considering optimal schedules. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 361–364. Coimbra, Portugal: Springer.

[87] Acan A, Gunay A. 2005 An external memory supported aco for the frequency assignment problem. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 365–368. Coimbra, Portugal: Springer.

[88] Holena M. 2005 Neural-networks for extraction of fuzzy logic rules with application to eeg data. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 369–372. Coimbra, Portugal: Springer.

[89] Barzamini R, Menhaj MB, Kamalvand S, Fasihi MA. 2005 A new neuro-based method for short term load forecasting of iran national power system. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 373–376. Coimbra, Portugal: Springer.

[90] Viet N, Kleiber M. 2005 Approximating the algebraic solution of systems of interval linear equations with use of neural networks. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 377–380. Coimbra, Portugal: Springer.

[91] Rehor D, Tozicka J, Slavik P. 2005 Visualization of meta-reasoning in multi-agent systems. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 385–388. Coimbra, Portugal: Springer.

[92] Wu C, Liang Y, Lee H, Lu C. 2005 Intelligent agent inspired genetic algorithm. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 389–392. Coimbra, Portugal: Springer.

[93] Bontempi G, Birattari M, Meyer PE. 2005 Combining lazy learning, racing and subsampling for effective feature selection. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 393–396. Coimbra, Portugal: Springer.

[94] Kaklamanos DG, Margaritis KG. 2005 Personalized news access. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 397–400. Coimbra, Portugal: Springer.

[95] Xin RM, Zuo WL. 2005 A more accurate text classifier for positive and unlabeled data. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 401–404. Coimbra, Portugal: Springer.

[96] Kawasnicka H, Paradowski M. 2005 Efficiency aspects of neural network architecture evolution using direct and indirect encoding. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 405–408. Coimbra, Portugal: Springer.

[97] Hayward S. 2005 Genetic algorithm optimization of an artificial neural network for financial applications. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 409–416. Coimbra, Portugal: Springer.

[98] Vieira A, Neves JC, Ribeiro B. 2005 A method to improve generalization of neural networks: Application to the problem of bankruptcy prediction. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 417–420. Coimbra, Portugal: Springer.

[99] Dantas A, Seixas J. 2005 An adaptive neural system for financial time series tracking. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 421–424. Coimbra, Portugal: Springer.

[100] Joshi R, Reeves C, Johnston C. 2005 Probabilistic artificial neural networks for malignant melanoma prognosis. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 425–428. Coimbra, Portugal: Springer.

[101] Kita S, Maekawa S, Ozawa S, Abe S. 2005 Boosting kernel discriminant analysis with adaptive kernel selection. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 429–432. Coimbra, Portugal: Springer.

[102] Petra K, Terezie S. 2005 Product kernel regularization networks. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 433–436. Coimbra, Portugal: Springer.

[103] Liu Q, Sung AH, Ribeiro BM. 2005 Statistical correlations and machine learning for steganalysis. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 437–440. Coimbra, Portugal: Springer.

[104] Doan S, Horiguchi S. 2005 The use of multi-criteria in feature selection to enhance text categorization. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 441–444. Coimbra, Portugal: Springer.

[105] Silva C, Ribeiro B. 2005 Text classification from partially labeled distributed data. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 445–448. Coimbra, Portugal: Springer.

[106] Li K, Li Y, Teng C, Wang Y. 2005 Solving the roots of cyclic-code generated polynomial by using evolutionary computation. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 449–453. Coimbra, Portugal: Springer.

[107] Corchado E, Herrero A, Baruque B, Saiz JM. 2005 Intrusion detection system based on a cooperative topology preserving method. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 454–457. Coimbra, Portugal: Springer.

[108] Mukkamala S, Sung AH, Ribeiro BM. 2005 Model selection for kernel based intrusion detection systems. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 458–461. Coimbra, Portugal: Springer.

[109] Tamura E, Busquets-Mataix JV, Martin JJS, Campoy AM. 2005 A comparison of three genetic algorithms for locking-cache contents selection in real-time systems. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 462–465. Coimbra, Portugal: Springer.

[110] Dongfeng H, Wenhui L. 2005 A binary digital watermarking scheme based on the orthogonal vector and ica-scs denoising. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 466–469. Coimbra, Portugal: Springer.

[111] Morita S. 2005 Simulating binocular eye movements based on 3-d short-term memory image in reading. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 470–473. Coimbra, Portugal: Springer.

[112] Cao W, Xu C, Wang S. 2005 An algorithm for face pose adjustment based on eye location. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 474–477. Coimbra, Portugal: Springer.

[113] Rahnamayan S, Tizhoosh HR, Salama M. 2005 Learning image filtering from a gold sample based on genetic on genetic optimization of morphological processing. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 478–481. Coimbra, Portugal: Springer.

[114] Shirota C, Barretto MY, Itiki C. 2005 Associative memories and diagnostic classification of emg signals. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 482–485. Coimbra, Portugal: Springer.

[115] Shibata K. 2005 Discretization of series of communication signals in noisy environment by reinforcement learning. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 486–489. Coimbra, Portugal: Springer.

[116] Cao W, Pan X, Wang S. 2005 The research of speaker-independent continuous mandarin chinese digits speech-recognition based on the dynamic search method of high-dimension space vertex cover. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 490–493. Coimbra, Portugal: Springer.

[117] Marolt M. 2005 A connectionist model of finding partial groups in music recordings with application to music transcription. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 494–497. Coimbra, Portugal: Springer.

[118] Kherallah M, Bouri F, Alimi MA. 2005 Toward an on-line handwriting recognition system based on visual coding and genetic algorithm. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 502–505. Coimbra, Portugal: Springer.

[119] Torres D, Rocco C. 2005 Assessing the reliability of complex networks through hybrid intelligent systems. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 510–513. Coimbra, Portugal: Springer.

[120] Vaculin R, Neruda R. 2005 Autonomous behavior of computational agents. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 514–517. Coimbra, Portugal: Springer.

[121] Koutnik J, Snorek M. 2005 Neural network generating hidden markov chain. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 518–521. Coimbra, Portugal: Springer.

[122] Ciglaric M, M Pancur BS, Dobnikar A. 2005 Datamining in grid environment. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 522–525. Coimbra, Portugal: Springer.

[123] Yoshikawa M, Fujino T, Terai H. 2005 Parallel placement procedure based on distributed genetic algorithms. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 526–529. Coimbra, Portugal: Springer.

[124] Lobo FG, Lima CF, Martires H. 2005 Massive parallelization of the compact genetic algorithm. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 530–533. Coimbra, Portugal: Springer.

[125] Lotric U, Dobnikar A. 2005 Parallel implementations of feed-forward neural network using mpi and c# on .net platform. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 534–537. Coimbra, Portugal: Springer.

[126] Wagner S, Affenzeller M. 2005 Heuristiclab: A generic and extensible optimization environment. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 538–541. Coimbra, Portugal: Springer.

[127] Osterman C, Rego C, Gamboa D. 2005 The satellite list: A reversible doubly-linked list. In: Ribeiro B, Albrecht RF, Dobnikar A, Pearson DW, Steele NC (eds.), *Adaptive and Natural Computing Algorithms*, Springer Computer Series, pp. 542–545. Coimbra, Portugal: Springer.