

## Список литературы

- [1] Palmer-Brown, D & Kang, M. (2005) *ADFUNN: An Adaptive Function Neural Network*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 1–4.
- [2] Beliczynski, B. (2005) *Certain Comments on Data Preparation for Neural Networks Based Modelling*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 5–8.
- [3] Saxen, H & Pettersson, F. (2005) *A Simple Method for Selection of Inputs and Structure of Feedforward Neural Networks*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 9–12.
- [4] Huk, M & Kwasnicka, H. (2005) *The Concept and Properties of Sigma-if Neural Network*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 13–17.
- [5] Bellil, W, Amar, C, & Alimi, A. (2005) *Beta Wavelet Networks for Function Approximation*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 18–21.
- [6] Cruz, P. (2005) *Speeding up Backpropagation with Multiplicative Batch Update Step*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 22–24.
- [7] Sima, J. (2005) *Generating Sequential Triangle Strips by Using Hopfield Nets*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 25–28.
- [8] Bauk, S. I, Perovich, S. M, & Lompar, A. (2005) *The Linear Approximation Method to the Modified Hopfield Neural Network Parameters Analysis*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 29–32.
- [9] Perovich, S. M, Bauk, S. I, & Konjevic, N. (2005) *The Analytical Analysis of Hopfield Neuron Parameters by the Application of Special Trans Function Theory*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 33–37.
- [10] Jankovic, M & Ogawa, H. (2005) *Time-Oriented Hierarchical Method for Computation of Minor Components*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 38–41.
- [11] Soula, H, Beslon, G, & Favrel, J. (2005) *Evolution versus Learning in Temporal Neural Networks*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 42–45.
- [12] Kurkova, V. (2005) *Minimization of Empirical Error over Perceptron Networks*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 46–49.
- [13] Horzyk, A. (2005) *Interval Basis Neural Network*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 50–53.
- [14] Eidson, J, Hamilton, B, & Kanevsky, V. (2005) *Learning from Randomly-Distributed Inaccurate Measurements*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 54–61.
- [15] Sun, H. (2005) *Combining Topological and Cardinal Directional Relation Information in QSR*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 62–65.

- [16] Altincay, H. (2005) *An Evidence Theoretic Ensemble Design Technique*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 66–69.
- [17] Hoshino, O. (2005) *Cortical Modulation of Synaptic Efficacies through Norepinephrine*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 70–73.
- [18] Davey, N, Calcraft, L, & Adams, R. (2005) *Associative Memories with Small World Connectivity*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 74–77.
- [19] Murata, M & Ozawa, S. (2005) *A Memory-Based Reinforcement Learning Model Utilizing Macro-Actions*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 78–81.
- [20] Peck, C. C, Kozloski, J, Cecchi, G. A, & Rao, A. R. (2005) *A Biologically Motivated Classifier that Preserves Implicit Relationship Information in Layered Networks*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 82–85.
- [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*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 86–91.
- [22] Avila, C, Tsuji, Y, & Shiraishi, Y. (2005) *Crack width Prediction of RC Structures by Artificial Neural Networks*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 92–95.
- [23] Lamrini, B, Benhammou, A, Karama, A, & Lann, M.-V. L. (2005) *A Neural Network System for Modelling of Coagulant Dosage Used in Drinking Water Treatment*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 96–99.
- [24] Ronnholm, M, Arve, K, Eranen, K, Klingstedt, F, Salmi, T, Saxen, H, & Westerholm, J. (2005) *ANN Modeling Applied to NO<sub>x</sub> Reduction with Octane. ANN Future in Personal Vehicles*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 100–103.
- [25] Helle, M & Saxen, H. (2005) *A Method for Detecting Cause-effects in Data from Complex Processes*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 104–107.
- [26] Trebar, M & Lotric, U. (2005) *Predictive Data Mining on Rubber Compound Database*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 108–111.
- [27] Bingul, Z & Ertunc, H. M. (2005) *Applying Neural Network to Inverse Kinematic Problem for 6R Robot Manipulator with Offset Wrist*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 112–115.
- [28] Zhang, L, Sitte, J, & Rueckert, U. (2005) *Local Cluster Neural Network Chip for Control*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 116–119.
- [29] Boumehraz, M & Benmahammed, K. (2005) *A Switching Controller for Nonlinear Systems via Fuzzy Models*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 120–123.

- [30] Ohba, T & Ishida, M. (2005) *Competitive Decentralized Autonomous Neural Net Controllers*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 124–127.
- [31] Jelleli, T. M & Alimi, A. M. (2005) *Improved Hierarchical Fuzzy Control Scheme*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 128–131.
- [32] Gabrijel, I & Dobnikar, A. (2005) *On-line Inference of Finite Automata in Noisy Environments*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 132–135.
- [33] Pearson, D. W & Batton-Hubert, M. (2005) *Improved Clustering by Rotation of Cluster Centres*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 136–139.
- [34] Doherty, K. A. J, Adams, R. G, & Davey, N. (2005) *Hierarchical Growing Neural Gas*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 140–143.
- [35] Rastegar, R, Hariri, A, & Meybodi, M. (2005) *A Fuzzy Clustering Algorithm Using Cellular Learning Automata Based Evolutionary Algorithm*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 144–150.
- [36] Moller, U. (2005) *Estimating the Number of Clusters from Distributional Results of Partitioning a Given Data Set*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 151–154.
- [37] Boubacar, H. A, Lecoecuche, S, & Maouche, S. (2005) *AUDyC Neural Network Using a New Gaussian Densities Merge Mechanism*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 155–158.
- [38] Boudour, M & Hellal, A. (2005) *The Growing Hierarchical Self-Organizing Feature Maps And Genetic Algorithms for Large Scale Power System security*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 159–163.
- [39] Boudjemai, F, Enberg, P. B, & Postaire, J. G. (2005) *3D Self Organizing Convex Neural Network Architectures*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 164–167.
- [40] Marzouki, K & Yamakawa, T. (2005) *Novel Learning Algorithm Aiming at Generating a Unique Units Distribution in Standard SOM*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 168–172.
- [41] Tambouratzis, T. (2005) *SOM-Based Estimation of Meteorological Profiles*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 173–176.
- [42] Garcia, C & Moreno, J. (2005) *An Efficient Heuristic for the Traveling Salesman Problem Based on a Growing SOM-like Algorithm*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 177–180.
- [43] Niska, H, Hiltunen, T, Karppinen, A, & Kolehmainen, M. (2005) *Evolutionary Design and Evaluation of Modeling System for Forecasting Urban Airborne Maximum Pollutant Concentrations*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 181–184.
- [44] Braught, G. W. (2005) *Evolving Evolvability: Evolving Both Representations and Operators*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 185–188.

- [45] Gaspar-Cunha, A. (2005) *A Multi-Objective Evolutionary Algorithm for Solving Traveling Salesman Problems: Application to the Design of Polymer Extruders*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 189–193.
- [46] Koppen, M, Vicente-Garcia, R, & Nickolay, B. (2005) *The Pareto-Box Problem for the Modelling of Evolutionary Multiobjective Optimization Algorithms*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 194–197.
- [47] Jedrzejowicz, J & Jedrzejowicz, P. (2005) *Implementation and Experimental Validation of the Population Learning Algorithm Applied to Solving QAP Instances*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 198–201.
- [48] Shakya, S, McCall, J, & Brown, D. F. (2005) *Estimating the Distribution in an EDA*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 202–205.
- [49] Jonkergouw, P, Keedwell, E, & Khu, S.-T. (2005) *Modelling Chlorine Decay in Water Networks with Genetic Programming*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 206–209.
- [50] Curran, D & O’Riordan, C. (2005) *Evolving Blackjack Strategies Using Cultural Learning*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 210–213.
- [51] Gupta, N & Agrawal, V. K. (2005) *Two-Criterion Optimization in State Assignment for Synchronous Finite State Machines Using NSGA-II*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 214–217.
- [52] Affenzeller, M & Wagner, S. (2005) *Offspring Selection: A New Self-Adaptive Selection Scheme for Genetic Algorithms*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 218–221.
- [53] Kubalik, J. (2005) *Using Genetic Algorithms with Real-coded Binary Representation for Solving Non-stationary Problems*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 222–225.
- [54] Agrawal, A, Mitchell, I, Passmore, P, & Litovski, I. (2005) *Dynamics in Proportionate Selection*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 226–229.
- [55] Da Costa, L. E & Landry, J.-A. (2005) *Generating Grammatical Plant Models with Genetic Algorithms*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 230–234.
- [56] Tavares, J, Pereira, F. B, & Costa, E. (2005) *Golomb Rulers: Experiments with Marks Representation*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 235–238.
- [57] Tavares, J, Leitao, T, Pereira, F. B, & Costa, E. (2005) *Evolving Segments Length in Golomb Rulers*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 239–242.
- [58] Silva, S, Silva, P. J. N, & Costa, E. (2005) *Resource-Limited Genetic Programming: Replacing Tree Depth Limits*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 243–246.

- [59] Kilani, Y & Mohdizin, A. (2005) *Treating some Constraints as Hard Speeds up the ESG Local Search Algorithm*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 247–249.
- [60] Wang, L. M, Shi, X, Chen, G, Ge, H. W, Lee, H. P, & Liang, Y. C. (2005) *Applications of PSO Algorithm and OIF Elman Neural Network to Assessment and Forecasting for Atmospheric Quality*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 250–254.
- [61] Machado, T. R & Lopes, H. S. (2005) *A Hybrid Particle Swarm Optimization Model for the Traveling Salesman Problem*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 255– 258.
- [62] Kaewkamnerdpong, B & Bentley, P. J. (2005) *Perceptive Particle Swarm Optimisation*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 259–263.
- [63] Pinto, P, Runkler, T. A, & Sousa, J. M. (2005) *Wasp Swarm Optimization of Logistic Systems*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 264–267.
- [64] Schoeman, I. L & Engelbrecht, A. P. (2005) *A Parallel Vector-Based Particle Swarm Optimizer*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 268–271.
- [65] Sicard, A, Ospina, J, & Velez, M. (2005) *Numerical Simulations of a Possible Hypercomputational Quantum Algorithm*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 272–275.
- [66] Udrescu, M, Prodan, L, & Vladutiu, M. (2005) *Efficient Quantum Circuits Simulation with the Bubble Bit Technique*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 276–279.
- [67] Pereira, A & Rodrigues, R. (2005) *Redundant Quantum Arithmetic*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 280–283.
- [68] Abualrub, T, Ghrayeb, A, & Zeng, X. (2005) *A Special Class of Additive Cyclic Codes for DNA Computing*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 284–287.
- [69] Rocha, M, Neves, J, & Veloso, A. (2005) *Evolutionary Algorithms for Static and Dynamic Optimization of Fed-batch Fermentation Processes*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 288–291.
- [70] Oliveira, R & Salcedo, R. (2005) *Benchmark Testing of Simulated Annealing, Adaptive Random Search and Genetic Algorithms for the Global Optimization of Bioprocesses*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 292–295.
- [71] Teixeira, A, Cunha, A, Clemente, J, Alves, P. M, Carrondo, M. J. T, & Oliveira, R. (2005) *Dynamic Modelling and Optimisation of a Ammalian Cells Process Using Hybrid Grey-box Systems*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 296–299.
- [72] Oliveira, R, Cunha, A, Clemente, J, & Carrondo, M. J. T. (2005) *Adaptive DO-based Control of Substrate Feeding in High Cell Density Cultures Operated under Oxygen Transfer Limitation*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 300–303.

- [73] Rocha, M, Cortez, P, & Neves, J. (2005) *Evolutionary Design of Neural Networks for Classification and Regression*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 304–307.
- [74] Gangadhar, D. (2005) *Pelican - Protein-structure Alignment Using Cellular Automaton Models*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 308–311.
- [75] Brunetti, S, Dutta, D, Liberatori, S, Mori, E, & Varrazzo, D. (2005) *An Efficient Algorithm for De Novo Peptide Sequencing*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 312–315.
- [76] Bisler, A. (2005) *Emergent Behavior of Interacting Groups of Communicative Agents*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 316–320.
- [77] Krishna, A, Narayanan, A, & Keedwell, E. C. (2005) *Reverse Engineering Gene Networks with Artificial Neural Networks*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 325–328.
- [78] Barth, F & Gomi, E. (2005) *A Meta-Level Architecture for Adaptive Applications*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 329–332.
- [79] Pistori, H, Martins, P. S, & de Castro, Jr., A. A. (2005) *Adaptive Finite State Automata and Genetic Algorithms: Merging Individual Adaptation and Population Evolution*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 333–336.
- [80] Camolesi, A. R. (2005) *Modeling a Tool for the Generation of Programming Environments for Adaptive Formalisms*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 337–340.
- [81] Pedrazzi, T. C, Tchembra, A. H, & Rocha, R. L. A. (2005) *Adaptive Decision Tables: A Case Study of their Application to Decision-Taking Problems*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 341–344.
- [82] de Abreu de Sousa, M. A & Hirakawa, A. R. (2005) *Robotic Mapping and Navigation in Unknown Environments Using Adaptive Automata*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 345–348.
- [83] Neto, J. J & Silva, P. S. M. (2005) *An Adaptive Framework for the Design of Software Specification Languages*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 349–352.
- [84] Li, Q, Shi, Z, & Shi, Z. (2005) *Swarm Intelligence Clustering Algorithm Based on Attractor*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 353–356.
- [85] Silva, C. A, Sousa, J. M, Runkler, T, & da Costa, J. M. G. S. (2005) *Ant-based Distributed Optimization for Supply Chain Management*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 357–360.
- [86] Honig, U & Schiffmann, W. (2005) *Comparison of Nature Inspired and Deterministic Scheduling Heuristics Considering Optimal Schedules*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 361–364.
- [87] Acan, A & Gunay, A. (2005) *An External Memory Supported ACO for the Frequency Assignment Problem*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 365–368.

- [88] Holena, M. (2005) *Neural-Networks for Extraction of Fuzzy Logic Rules with Application to EEG Data*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 369–372.
- [89] Barzamini, R, Menhaj, M. B, Kamalvand, S, & Fasihi, M. A. (2005) *A New Neuro-Based Method For Short Term Load Forecasting of Iran National Power System*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 373–376.
- [90] Viet, N & Kleiber, M. (2005) *Approximating the Algebraic Solution of Systems of Interval Linear Equations with Use of Neural Networks*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 377–380.
- [91] Rehor, D, Tozicka, J, & Slavik, P. (2005) *Visualization of Meta-Reasoning in Multi-Agent Systems*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 385–388.
- [92] Wu, C, Liang, Y, Lee, H, & Lu, C. (2005) *Intelligent Agent Inspired Genetic Algorithm*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 389–392.
- [93] Bontempi, G, Birattari, M, & Meyer, P. E. (2005) *Combining Lazy Learning, Racing and Subsampling for Effective Feature Selection*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 393–396.
- [94] Kaklamanos, D. G & Margaritis, K. G. (2005) *Personalized News Access*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 397–400.
- [95] Xin, R.-M & Zuo, W.-L. (2005) *A More Accurate Text Classifier for Positive and Unlabeled Data*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 401–404.
- [96] Kawasnicka, H & Paradowski, M. (2005) *Efficiency Aspects of Neural Network Architecture Evolution Using Direct and Indirect Encoding*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 405–408.
- [97] Hayward, S. (2005) *Genetic Algorithm Optimization of an Artificial Neural Network for Financial Applications*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 409–416.
- [98] Vieira, A, Neves, J. C, & Ribeiro, B. (2005) *A Method to Improve Generalization of Neural Networks: Application to the Problem of Bankruptcy Prediction*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 417–420.
- [99] Dantas, A & Seixas, J. (2005) *An Adaptive Neural System for Financial Time Series Tracking*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 421–424.
- [100] Joshi, R, Reeves, C, & Johnston, C. (2005) *Probabilistic Artificial Neural Networks for Malignant Melanoma Prognosis*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 425–428.
- [101] Kita, S, Maekawa, S, Ozawa, S, & Abe, S. (2005) *Boosting Kernel Discriminant Analysis with Adaptive Kernel Selection*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 429–432.
- [102] Petra, K & Terezic, S. (2005) *Product Kernel Regularization Networks*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 433–436.

- [103] Liu, Q, Sung, A. H, & Ribeiro, B. M. (2005) *Statistical Correlations and Machine Learning for Steganalysis*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 437–440.
- [104] Doan, S & Horiguchi, S. (2005) *The Use of Multi-Criteria in Feature Selection to Enhance Text Categorization*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 441–444.
- [105] Silva, C & Ribeiro, B. (2005) *Text Classification from Partially Labeled Distributed Data*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 445–448.
- [106] Li, K, Li, Y, Teng, C, & Wang, Y. (2005) *Solving The Roots of Cyclic-Code Generated Polynomial by Using Evolutionary Computation*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 449–453.
- [107] Corchado, E, Herrero, A, Baruque, B, & Saiz, J. M. (2005) *Intrusion Detection System Based on a Cooperative Topology Preserving Method*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 454–457.
- [108] Mukkamala, S, Sung, A. H, & Ribeiro, B. M. (2005) *Model Selection for Kernel Based Intrusion Detection Systems*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 458–461.
- [109] Tamura, E, Busquets-Mataix, J. V, Martin, J. J. S, & Campoy, A. M. (2005) *A Comparison of three Genetic Algorithms for Locking-cache Contents Selection in Real-Time Systems*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 462–465.
- [110] Dongfeng, H & Wenhui, L. (2005) *A Binary Digital Watermarking Scheme Based on the Orthogonal Vector and ICA-SCS Denoising*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 466–469.
- [111] Morita, S. (2005) *Simulating Binocular Eye Movements Based on 3-D Short-Term Memory Image in Reading*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 470–473.
- [112] Cao, W, Xu, C, & Wang, S. (2005) *An Algorithm For Face Pose Adjustment Based On Eye Location*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 474–477.
- [113] Rahnamayan, S, Tizhoosh, H. R, & Salama, M. (2005) *Learning Image Filtering from a Gold Sample Based on Genetic On Genetic Optimization of Morphological processing*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 478–481.
- [114] Shirota, C, Barretto, M. Y, & Itiki, C. (2005) *Associative Memories and Diagnostic Classification of EMG Signals*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 482–485.
- [115] Shibata, K. (2005) *Discretization of Series of Communication Signals in Noisy Environment by Reinforcement Learning*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 486–489.
- [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*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 490–493.
- [117] Marolt, M. (2005) *A Connectionist Model of Finding Partial Groups in Music Recordings with Application to Music Transcription*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 494–497.



- [118] Kherallah, M, Bouri, F, & Alimi, M. A. (2005) *Toward an On-Line Handwriting Recognition System Based on Visual Coding and Genetic Algorithm*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 502–505.
- [119] Torres, D & Rocco, C. (2005) *Assessing the Reliability of Complex Networks through Hybrid Intelligent Systems*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 510–513.
- [120] Vaculin, R & Neruda, R. (2005) *Autonomous Behavior of Computational Agents*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 514–517.
- [121] Koutnik, J & Snorek, M. (2005) *Neural Network Generating Hidden Markov Chain*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 518–521.
- [122] Ciglaric, M, M. Pancur, B. S, & Dobnikar, A. (2005) *Datamining in Grid Environment*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 522–525.
- [123] Yoshikawa, M, Fujino, T, & Terai, H. (2005) *Parallel Placement Procedure Based on Distributed Genetic Algorithms*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 526–529.
- [124] Lobo, F. G, Lima, C. F, & Martires, H. (2005) *Massive Parallelization of the Compact Genetic Algorithm*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 530–533.
- [125] Lotric, U & Dobnikar, A. (2005) *Parallel Implementations of Feed-forward Neural Network Using MPI and C# on .NET Platform*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 534–537.
- [126] Wagner, S & Affenzeller, M. (2005) *HeuristicLab: A Generic and Extensible Optimization Environment*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 538–541.
- [127] Osterman, C, Rego, C, & Gamboa, D. (2005) *The Satellite List: A Reversible Doubly-Linked List*, Springer Computer Series eds. Ribeiro, B, Albrecht, R. F, Dobnikar, A, Pearson, D. W, & Steele, N. C. (Springer, Coimbra, Portugal), pp. 542–545.