Список литературы

[1] A. Agogino and K. Tumer, Efficient evaluation functions for multi-rover systems, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1–11, Seattle, WA, USA, 2004, Springer-Verlag.

[2] A. Brabazon *et al.*, A particle swarm model of organizational adaptation, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 12–23, Seattle, WA, USA, 2004, Springer-Verlag.

[3] T. N. Bui and J. R. Rizzo, Finding maximum cliques with distributed ants, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 24–35, Seattle, WA, USA, 2004, Springer-Verlag.

[4] T. N. Bui and G. Sundarraj, Ant system for the k-cardinality tree problem, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 36–47, Seattle, WA, USA, 2004, Springer-Verlag.

[5] D. M. Chitty and M. L. Hernandez, A hybrid ant colony optimisation technique for dynamic vehicle routing, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 48–59, Seattle, WA, USA, 2004, Springer-Verlag.

[6] D. Cornforth and M. Kirley, Cooperative problem solving using an agent-based market, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 60–71, Seattle, WA, USA, 2004, Springer-Verlag.

[7] D. Curran and C. O'Riordan, Cultural evolution for sequential decision tasks: Evolving tic-tac-toe players in multi-agent systems, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 72–80, Seattle, WA, USA, 2004, Springer-Verlag.

[8] K. L. Downing, Artificial life and natural intelligence, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 81–92, Seattle, WA, USA, 2004, Springer-Verlag.

[9] T. Kowaliw, P. Grogono and N. Kharma, Bluenome: A novel developmental model of artificial morphogenesis, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 93–104, Seattle, WA, USA, 2004, Springer-Verlag.

[10] X. Li, Adaptively choosing neighbourhood bests using species in a particle swarm optimizer for multimodal function optimization, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 105–116, Seattle, WA, USA, 2004, Springer-Verlag.

[11] X. Li, Better spread and convergence: Particle swarm multiobjective optimization using the maximin fitness function, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 117–128, Seattle, WA, USA, 2004, Springer-Verlag.

[12] J. F. Miller, Evolving a self-repairing, self-regulating, french flag organism, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 129–139, Seattle, WA, USA, 2004, Springer-Verlag.

[13] C. K. Monson and K. D. Seppi, The kalman swarm: A new approach to particle motion in swarm optimization, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 140–150, Seattle, WA, USA, 2004, Springer-Verlag.

[14] T. Nakano and T. Suda, Adaptive and evolvable network services, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 151–162, Seattle, WA, USA, 2004, Springer-Verlag.

[15] M. O'Neill and A. Brabazon, Grammatical swarm, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 163–174, Seattle, WA, USA, 2004, Springer-Verlag.

[16] E. Sapin, O. Bailleux, J.-J. Chabrier and P. Collet, A new universal cellular automaton discovered by evolutionary algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 175–187, Seattle, WA, USA, 2004, Springer-Verlag.

[17] Y. Semet, U.-M. O'Reilly and F. Durand, An interactive artificial ant approach to non-photorealistic rendering, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 188–200, Seattle, WA, USA, 2004, Springer-Verlag.

[18] W. A. Talbott, Automatic creation of team-control plans using an assignment branch in genetic programming, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 201–212, Seattle, WA, USA, 2004, Springer-Verlag.

[19] I. Tanev and K. Yuta, Implications of epigenetic learning via modification of histones on performance of genetic programming, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 213–224, Seattle, WA, USA, 2004, Springer-Verlag.

[20] G. T. Pulido and C. A. C. Coello, Using clustering techniques to improve the performance of a multi-objective particle swarm optimizer, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 225–237, Seattle, WA, USA, 2004, Springer-Verlag.

[21] X.-F. Xie and W.-J. Zhang, Swaf: Swarm algorithm framework for numerical optimization, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 238–250, Seattle, WA, USA, 2004, Springer-Verlag.

[22] A. Berro and S. Sanchez, Autonomous agent for multi-objective optimization, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 251–252, Seattle, WA, USA, 2004, Springer-Verlag.

[23] D. M. Chitty, An evolved autonomous controller for satellite task scheduling, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 253–254, Seattle, WA, USA, 2004, Springer-Verlag.

[24] S. Dignum and R. Poli, Multi-agent foreign exchange market modelling via gp, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 255–256, Seattle, WA, USA, 2004, Springer-Verlag.

[25] R. Drewes, J. Maciokas, S. J. Louis and P. Goodman, An evolutionary autonomous agent with visual cortex and recurrent spiking columnar neural network, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 257–258, Seattle, WA, USA, 2004, Springer-Verlag.

[26] O. Gómez and B. Barán, Arguments for aco's success, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 259–260, Seattle, WA, USA, 2004, Springer-Verlag.

[27] X.-F. Xie and W.-J. Zhang, Solving engineering design problems by social cognitive optimization, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 261–262, Seattle, WA, USA, 2004, Springer-Verlag.

[28] G. Dozier, D. Brown, J. Hurley and K. Cain, Vulnerability analysis of immunity-based intrusion detection systems using evolutionary hackers, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 263–274, Seattle, WA, USA, 2004, Springer-Verlag.

[29] X. Hang and H. Dai, Constructing detectors in schema complementary space for anomaly detection, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 275–286, Seattle, WA, USA, 2004, Springer-Verlag.

[30] Z. Ji and D. Dasgupta, Real-valued negative selection algorithm with variable-sized detectors, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 287–298, Seattle, WA, USA, 2004, Springer-Verlag.

[31] T. Stibor, K. M. Bayarou and C. Eckert, An investigation of r-chunk detector generation on higher alphabets, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 299–307, Seattle, WA, USA, 2004, Springer-Verlag.

[32] J. Timmis and C. Edmonds, A comment on opt-ainet: An immune network algorithm for optimisation, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 308–317, Seattle, WA, USA, 2004, Springer-Verlag.

[33] Z. qiang Qi, S. min Song, Z. hua Yang, G. da Hu and F. en Zhang, A novel immune feedback control algorithm and its applications, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 318–320, Seattle, WA, USA, 2004, Springer-Verlag.

[34] I. Belda, X. Llorà, M. Martinell, T. Tarragó and E. Giralt, Computer-aided peptide evolution for virtual drug design, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 321–332, Seattle, WA, USA, 2004, Springer-Verlag.

[35] J. C. Bongard and H. Lipson, Automating genetic network inference with minimal physical experimentation using coevolution, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 333–345, Seattle, WA, USA, 2004, Springer-Verlag.

[36] Y.-H. Kim, S.-Y. Lee and B.-R. Moon, A genetic approach for gene selection on microarray expression data, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 346–355, Seattle, WA, USA, 2004, Springer-Verlag.

[37] P. Koduru, S. Das, S. Welch and J. L. Roe, Fuzzy dominance based multi-objective ga-simplex hybrid algorithms applied to gene network models, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 356–367, Seattle, WA, USA, 2004, Springer-Verlag.

[38] C. S. de Magalhäes, H. J. Barbosa and L. E. Dardenne, Selection-insertion schemes in genetic algorithms for the flexible ligand docking problem, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 368–379, Seattle, WA, USA, 2004, Springer-Verlag.

[39] G. Mauri, R. Mosca and G. Pavesi, A ga approach to the definition of regulatory signals in genomic sequences, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 380–391, Seattle, WA, USA, 2004, Springer-Verlag.

[40] J. H. Moore and L. W. Hahn, Systems biology modeling in human genetics using petri nets and grammatical evolution, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 392–401, Seattle, WA, USA, 2004, Springer-Verlag.

[41] K. Parsopoulos, E. Papageorgiou, P. Groumpos and M. Vrahatis, Evolutionary computation techniques for optimizing fuzzy cognitive maps in radiation therapy systems, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 402–413, Seattle, WA, USA, 2004, Springer-Verlag.

[42] T. K. Paul and H. Iba, Identification of informative genes for molecular classification using probabilistic model building genetic algorithm, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 414–425, Seattle, WA, USA, 2004, Springer-Verlag.

[43] M. R. Peterson, T. E. Doom and M. L. Raymer, Ga-facilitated knowledge discovery and pattern recognition optimization applied to the biochemistry of protein solvation, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 426–437, Seattle, WA, USA, 2004, Springer-Verlag.

[44] M. D. Ritchie, C. S. Coffey and J. H. Moore, Genetic programming neural networks as a bioinformatics tool for human genetics, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 438–448, Seattle, WA, USA, 2004, Springer-Verlag.

[45] L. Sheneman and J. A. Foster, Evolving better multiple sequence alignments, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 449–460, Seattle, WA, USA, 2004, Springer-Verlag.

[46] C. Spieth, F. Streichert, N. Speer and A. Zell, Optimizing topology and parameters of gene regulatory network models from time-series experiments, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 461–470, Seattle, WA, USA, 2004, Springer-Verlag.

[47] F. Streichert, H. Planatscher, C. Spieth, H. Ulmer and A. Zell, Comparing genetic programming and evolution strategies on inferring gene regulatory networks, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 471–480, Seattle, WA, USA, 2004, Springer-Verlag.

[48] J.-M. Yang, T.-W. Shen, Y.-F. Chen and Y.-Y. Chiu, An evolutionary approach with pharmacophore-based scoring functions for virtual database screening, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 481–492, Seattle, WA, USA, 2004, Springer-Verlag.

[49] J. S. Aguilar-Ruiz, D. Mateos, R. Giraldez and J. C. Riquelme, Statistical test-based evolutionary segmentation of yeast genome, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 493–494, Seattle, WA, USA, 2004, Springer-Verlag.

[50] E. C. Buehler, S. Das and J. F. Cully, Equilibrium and extinction in a trisexual diploid mating system: An investigation, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 495–496, Seattle, WA, USA, 2004, Springer-Verlag.

[51] D. J. Burns and K. T. May, On parameterizing models of antigen-antibody binding dynamics on surfaces: A genetic algorithm approach and the need for speed, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 497–498, Seattle, WA, USA, 2004, Springer-Verlag.

[52] W. Just and X. Sun, Is the predicted ess in the sequential assessment game evolvable?, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 499–500, Seattle, WA, USA, 2004, Springer-Verlag.

[53] A. Bucci, J. B. Pollack and E. de Jong, Automated extraction of problem structure, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 501–512, Seattle, WA, USA, 2004, Springer-Verlag.

[54] M. Chang, K. Ohkura, K. Ueda and M. Sugiyama, Modeling coevolutionary genetic algorithms on two-bit landscapes: Random partnering, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 513–524, Seattle, WA, USA, 2004, Springer-Verlag.

[55] E. D. de Jong, The incremental pareto-coevolution archive, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 525–536, Seattle, WA, USA, 2004, Springer-Verlag.

[56] A. W. Iorio and X. Li, A cooperative coevolutionary multiobjective algorithm using non-dominated sorting, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 537–548, Seattle, WA, USA, 2004, Springer-Verlag.

[57] A. M. Liekens, H. M. ten Eikelder and P. A. Hilbers, Predicting genetic drift in 2x2 games, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 549–560, Seattle, WA, USA, 2004, Springer-Verlag.

[58] R. A. Palacios-Durazo and M. Valenzuela-Rendón, Similarities between co-evolution and learning classifier systems and their applications, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 561–572, Seattle, WA, USA, 2004, Springer-Verlag.

[59] L. Panait, R. P. Wiegand and S. Luke, A sensitivity analysis of a cooperative coevolutionary algorithm biased for optimization, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 573–584, Seattle, WA, USA, 2004, Springer-Verlag.

[60] A. Bader-Natal and J. B. Pollack, A population-differential method of monitoring success and failure in coevolution, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 585–586, Seattle, WA, USA, 2004, Springer-Verlag.

[61] S. Nadimi and B. Bhanu, Cooperative coevolution fusion for moving object detection, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 587–589, Seattle, WA, USA, 2004, Springer-Verlag.

[62] Y. Inoue, T. Tohge and H. Iba, Learning to acquire autonomous behavior: Cooperation by humanoid robots, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 590–602, Seattle, WA, USA, 2004, Springer-Verlag.

[63] R. W. Paine and J. Tani, Evolved motor primitives and sequences in a hierarchical recurrent neural network, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 603–614, Seattle, WA, USA, 2004, Springer-Verlag.

[64] E. S. Pires, J. T. Machado and P. de Moura Oliveira, Robot trajectory planning using multi-objective genetic algorithm optimization, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 615–626, Seattle, WA, USA, 2004, Springer-Verlag.

[65] I. Tanev, T. Ray and A. Buller, Evolution, robustness, and adaptation of sidewinding locomotion of simulated snake-like robot, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 627–639, Seattle, WA, USA, 2004, Springer-Verlag.

[66] M. Maniadakis and P. Trahanias, Evolution tunes coevolution: Modelling robot cognition mechanisms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 640–641, Seattle, WA, USA, 2004, Springer-Verlag.

[67] A. A. Albrecht, On the complexity to approach optimum solutions by inhomogeneous markov chains, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 642–653, Seattle, WA, USA, 2004, Springer-Verlag.

[68] H.-G. Beyer, Actuator noise in recombinant evolution strategies on general quadratic fitness models, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 654–665, Seattle, WA, USA, 2004, Springer-Verlag.

[69] L. M. Clevenger and W. E. Hart, Convergence examples of a filter-based evolutionary algorithm, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 666–677, Seattle, WA, USA, 2004, Springer-Verlag.

[70] A. Delbem *et al.*, Node-depth encoding for evolutionary algorithms applied to network design, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 678–687, Seattle, WA, USA, 2004, Springer-Verlag.

[71] Y. Jin and B. Sendhoff, Reducing fitness evaluations using clustering techniques and neural network ensembles, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 688–699, Seattle, WA, USA, 2004, Springer-Verlag.

[72] E. Mezura-Montes and C. A. C. Coello, An improved diversity mechanism for solving constrained optimization problems using a multimembered evolution strategy, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 700–712, Seattle, WA, USA, 2004, Springer-Verlag.

[73] F. Neumann and I. Wegener, Randomized local search, evolutionary algorithms, and the minimum spanning tree problem, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 713–724, Seattle, WA, USA, 2004, Springer-Verlag.

[74] J. E. Rowe and D. zena Hidović, An evolution strategy using a continuous version of the gray-code neighbourhood distribution, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 725–736, Seattle, WA, USA, 2004, Springer-Verlag.

[75] L.-S. Shu, S.-J. Ho, S.-Y. Ho, J.-H. Chen and M.-H. Hung, A novel multi-objective orthogonal simulated annealing algorithm for solving multi-objective optimization problems with a large number of parameters, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 737–747, Seattle, WA, USA, 2004, Springer-Verlag.

[76] T. Storch, On the choice of the population size, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 748–760, Seattle, WA, USA, 2004, Springer-Verlag.

[77] C. Witt, An analysis of the (1+1) ea on simple pseudo-boolean functions, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 761–773, Seattle, WA, USA, 2004, Springer-Verlag.

[78] K. Yanai and H. Iba, Program evolution by integrating edp and gp, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 774–785, Seattle, WA, USA, 2004, Springer-Verlag.

[79] S. Berlik, A step size preserving directed mutation operator, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 786–787, Seattle, WA, USA, 2004, Springer-Verlag.

[80] C. Grosan, A comparison of several algorithms and representations for single objective optimization, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 788–789, Seattle, WA, USA, 2004, Springer-Verlag.

[81] W. Jakob, C. Blume and G. Bretthauer, Towards a generally applicable self-adapting hybridization of evolutionary algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 790–791, Seattle, WA, USA, 2004, Springer-Verlag.

[82] D. Keymeulen *et al.*, High temperature experiments for circuit self-recovery, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 792–803, Seattle, WA, USA, 2004, Springer-Verlag.

[83] J. Rieffel and J. Pollack, The emergence of ontogenic scaffolding in a stochastic development environment, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 804–815, Seattle, WA, USA, 2004, Springer-Verlag.

[84] Y. Thoma and E. Sanchez, A reconfigurable chip for evolvable hardware, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 816–827, Seattle, WA, USA, 2004, Springer-Verlag.

[85] J. Aguilar-Ruiz, J. Bacardit and F. Divina, Experimental evaluation of discretization schemes for rule induction, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 828–839, Seattle, WA, USA, 2004, Springer-Verlag.

[86] C. W. Ahn, R. Ramakrishna and D. E. Goldberg, Real-coded bayesian optimization algorithm: Bringing the strength of boa into the continuous world, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 840–851, Seattle, WA, USA, 2004, Springer-Verlag.

[87] E. Alba and J. F. Chicano, Training neural networks with ga hybrid algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 852–863, Seattle, WA, USA, 2004, Springer-Verlag.

[88] E. Alba and G. Luque, Growth curves and takeover time in distributed evolutionary algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 864–876, Seattle, WA, USA, 2004, Springer-Verlag.

[89] C. Aporntewan and P. Chongstitvatana, Simultaneity matrix for solving hierarchically decomposable functions, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 877–888, Seattle, WA, USA, 2004, Springer-Verlag.

[90] L. Araujo, G. Luque and E. Alba, Metaheuristics for natural language tagging, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 889–900, Seattle, WA, USA, 2004, Springer-Verlag.

[91] P. J. Ballester and J. N. Carter, An effective real-parameter genetic algorithm with parent centric normal crossover for multimodal optimisation, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 901–913, Seattle, WA, USA, 2004, Springer-Verlag.

[92] J. K. Bassett, M. A. Potter and K. A. D. Jong, Looking under the ea hood with price's equation, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 914–922, Seattle, WA, USA, 2004, Springer-Verlag.

[93] J. Branke, A. Kamper and H. Schmeck, Distribution of evolutionary algorithms in heterogeneous networks, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 923–934, Seattle, WA, USA, 2004, Springer-Verlag.

[94] B. Buyukbozkirli and E. D. Goodman, A statistical model of ga dynamics for the onemax problem, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 935–946, Seattle, WA, USA, 2004, Springer-Verlag.

[95] E. Cantú-Paz, Adaptive sampling for noisy problems, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 947–958, Seattle, WA, USA, 2004, Springer-Verlag.

[96] E. Cantú-Paz, Feature subset selection, class separability, and genetic algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 959–970, Seattle, WA, USA, 2004, Springer-Verlag.

[97] Y. ping Chen and D. E. Goldberg, Introducing subchromosome representations to the linkage learning genetic algorithm, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 971–982, Seattle, WA, USA, 2004, Springer-Verlag.

[98] C. D. Cheng and A. Kosorukoff, Interactive one-max problem allows to compare the performance of interactive and human-based genetic algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 983–993, Seattle, WA, USA, 2004, Springer-Verlag.

[99] S.-S. Choi and B.-R. Moon, Polynomial approximation of survival probabilities under multi-point crossover, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 994–1005, Seattle, WA, USA, 2004, Springer-Verlag.

[100] R. Chow, Genotype to phenotype mappings with a multiple-chromosome genetic algorithm, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1006–1017, Seattle, WA, USA, 2004, Springer-Verlag.

[101] C. Chryssomalakos and C. R. Stephens, What basis for genetic dynamics?, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1018–1029, Seattle, WA, USA, 2004, Springer-Verlag.

[102] E. D. de Jong and D. Thierens, Exploiting modularity, hierarchy, and repetition in variable-length problems, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1030–1041, Seattle, WA, USA, 2004, Springer-Verlag.

[103] K. Deb and N. K. Gupta, Optimal operating conditions for overhead crane maneuvering using multi-objective evolutionary algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1042–1053, Seattle, WA, USA, 2004, Springer-Verlag.

[104] K. Deb and K. Pal, Efficiently solving: A large-scale integer linear program using a customized genetic algorithm, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1054–1065, Seattle, WA, USA, 2004, Springer-Verlag.

[105] E. Dicke, A. Byde, P. Layzell and D. Cliff, Using a genetic algorithm to design and improve storage area network architectures, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1066–1077, Seattle, WA, USA, 2004, Springer-Verlag.

[106] G. Dozier, H. Cunningham, W. Britt and F. Zhang, Distributed constraint satisfaction, restricted recombination, and hybrid genetic search, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1078–1087, Seattle, WA, USA, 2004, Springer-Verlag.

[107] S. Droste, Analysis of the (1 + 1) ea for a noisy onemax, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1088–1099, Seattle, WA, USA, 2004, Springer-Verlag.

[108] S. Fischer, A polynomial upper bound for a mutation-based algorithm on the two-dimensional ising model, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1100–1112, Seattle, WA, USA, 2004, Springer-Verlag.

[109] S. Fischer and I. Wegener, The ising model on the ring: Mutation versus recombination, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1113–1124, Seattle, WA, USA, 2004, Springer-Verlag.

[110] I. I. Garibay, O. O. Garibay and A. S. Wu, Effects of module encapsulation in repetitively modular genotypes on the search space, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1125–1137, Seattle, WA, USA, 2004, Springer-Verlag.

[111] M. Giacobini, E. Alba, A. Tettamanzi and M. Tomassini, Modeling selection intensity for toroidal cellular evolutionary algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1138–1149, Seattle, WA, USA, 2004, Springer-Verlag.

[112] J. Gomez, Evolution of fuzzy rule based classifiers, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1150–1161, Seattle, WA, USA, 2004, Springer-Verlag.

[113] J. Gomez, Self adaptation of operator rates in evolutionary algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1162–1173, Seattle, WA, USA, 2004, Springer-Verlag.

[114] J. Grahl and F. Rothlauf, Polyeda: Combining estimation of distribution algorithms and linear inequality constraints, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1174–1185, Seattle, WA, USA, 2004, Springer-Verlag.

[115] A. Grajdeanu and K. D. Jong, Improving the locality properties of binary representations, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1186–1196, Seattle, WA, USA, 2004, Springer-Verlag.

[116] W. A. Greene, Schema disruption in chromosomes that are structured as binary trees, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1197–1207, Seattle, WA, USA, 2004, Springer-Verlag.

[117] B. Howard and J. Sheppard, The royal road not taken: A re-examination of the reasons for ga failure on r1, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1208–1219, Seattle, WA, USA, 2004, Springer-Verlag.

[118] J. Hu and E. Goodman, Robust and efficient genetic algorithms with hierarchical niching and a sustainable evolutionary computation model, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1220–1232, Seattle, WA, USA, 2004, Springer-Verlag.

[119] C.-F. Huang and L. M. Rocha, A systematic study of genetic algorithms with genotype editing, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1233–1245, Seattle, WA, USA, 2004, Springer-Verlag.

[120] H. Ishibuchi and K. Narukawa, Some issues on the implementation of local search in evolutionary multiobjective optimization, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1246–1258, Seattle, WA, USA, 2004, Springer-Verlag.

[121] H. Ishibuchi and Y. Shibata, Mating scheme for controlling the diversity-convergence balance for multiobjective optimization, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1259–1271, Seattle, WA, USA, 2004, Springer-Verlag.

[122] B. A. Julstrom, Encoding bounded-diameter spanning trees with permutations and with random keys, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1272–1281, Seattle, WA, USA, 2004, Springer-Verlag.

[123] B. A. Julstrom and A. Antoniades, Three evolutionary codings of rectilinear steiner arborescences, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1282–1291, Seattle, WA, USA, 2004, Springer-Verlag.

[124] S. Jung and B.-R. Moon, Central point crossover for neuro-genetic hybrids, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1292–1303, Seattle, WA, USA, 2004, Springer-Verlag.

[125] G. W. Klau *et al.*, Combining a memetic algorithm with integer programming to solve the prize-collecting steiner tree problem, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1304–1315, Seattle, WA, USA, 2004, Springer-Verlag.

[126] J. Langeheine, M. Trefzer, D. Brüderle, K. Meier and J. Schemmel, On the evolution of analog electronic circuits using building blocks on a cmos fpta, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1316–1327, Seattle, WA, USA, 2004, Springer-Verlag.

[127] C. F. Lima and F. G. Lobo, Parameter-less optimization with the extended compact genetic algorithm and iterated local search, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1328–1339, Seattle, WA, USA, 2004, Springer-Verlag.

[128] M. Lunacek, D. Whitley, P. Gabriel and G. Stephens, Comparing search algorithms for the temperature inversion problem, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1340–1351, Seattle, WA, USA, 2004, Springer-Verlag.

[129] A. Menon, Inequality's arrow: The role of greed and order in genetic algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1352–1364, Seattle, WA, USA, 2004, Springer-Verlag.

[130] C. Miles, S. J. Louis and R. Drewes, Trap avoidance in strategic computer game playing with case injected genetic algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1365–1376, Seattle, WA, USA, 2004, Springer-Verlag.

[131] A. Moraglio and R. Poli, Topological interpretation of crossover, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1377–1388, Seattle, WA, USA, 2004, Springer-Verlag.

[132] C. L. Mumford, Simple population replacement strategies for a steady-state multi-objective evolutionary algorithm, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1389–1400, Seattle, WA, USA, 2004, Springer-Verlag.

[133] O. Nasraoui, C. Rojas and C. Cardona, Dynamic and scalable evolutionary data mining: An approach based on a self-adaptive multiple expression mechanism, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1401–1413, Seattle, WA, USA, 2004, Springer-Verlag.

[134] M. Nicolau and C. Ryan, Crossover, population dynamics, and convergence in the gauge system, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1414–1425, Seattle, WA, USA, 2004, Springer-Verlag.

[135] K. Ohnishi, K. Sastry, Y.-P. Chen and D. E. Goldberg, Inducing sequentiality using grammatical genetic codes, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb *et al.*, , Lecture Notes in Computer Science Vol. 3102, pp. 1426–1437, Seattle, WA, USA, 2004, Springer-Verlag.