

## Список литературы

- [1] L. Spector *et al.*, editors, *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [2] O. T. Sehitoglu and G. Ucoluk, A building block favoring reordering method for gene positions in genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 571–575, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [3] T. Miconi, A collective genetic algorithm, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 876–883, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [4] H. Pei and E. Goodman, A comparison of cohort genetic algorithms with canonical serial and island-model distributed ga's, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 501–510, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [5] M. Vazquez, A comparison of genetic algorithms and tabu search techniques for the resource-constrained project scheduling problem, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1185, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [6] A. C. M. de Oliveira and L. A. N. Lorena, A constructive genetic algorithm for the linear gate assignment problem, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 756, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [7] J. Aguilar and E. L. Leiss, A data dependent loop scheduler based on genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1183, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [8] H. Shimodaira, A diversity-control-oriented genetic algorithm (dcga): Performance improvement by the reinitialization of the population, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 576–583, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [9] P. J. Kennedy and T. R. Osborn, A double-stranded encoding scheme with inversion operator for genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 398–407, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [10] R. Santana, A. Ochoa-Rodriguez, and M. R. Soto, A factorized distribution algorithm for problems with integer representation, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 780, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [11] J. Li and R. S. K. Kwan, A fuzzy theory based evolutionary approach for driver scheduling, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1152–1158, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [12] R. D. Rhyne, II and J. F. Smith, III, A game based approach to co-evolutionary optimization, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 908, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [13] A. Soper and C. Walshaw, A generational scheme for partitioning graphs, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 607–614, San Francisco, California, USA, 2001, Morgan Kaufmann.

- [14] R. Jiang, K. Y. Szeto, Y. Luo, and D. Hu, A genetic algorithm architecture by coordinating exploration and exploitation, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 383–390, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [15] J. C. Determan and J. A. Foster, A genetic algorithm for expert system rule generation, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 757, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [16] S. Wakabayashi and M. Ohsako, A genetic algorithm for generating a steiner tree with wire sizing and buffer insertion, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1431–1438, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [17] P. Hingston, A genetic algorithm for regular inference, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1299–1306, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [18] N. Pech-Gourg and J.-K. Hao, A genetic algorithm for the classification of natural corks, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1382–1388, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [19] E. S. Correa, M. T. A. Steiner, A. A. Freitas, and C. Carnieri, A genetic algorithm for the p-median problem, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1268–1275, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [20] H.-K. Tsai, J.-M. Yang, and C.-Y. Kao, A genetic algorithm for traveling salesman problems, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 687–693, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [21] T. Soule and A. E. Ball, A genetic algorithm with multiple reading frames, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 615–622, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [22] A. Barry, A hierarchical xcs for long path environments, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 913–920, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [23] J. Poon and S. Prasher, A hybrid approach to support interactive data mining, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 527–534, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [24] J.-Y. Potvin and D. De Ladurantaye, A hybrid genetic algorithm for the generalized traveling salesman problem, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1167–1172, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [25] S.-H. Kim, Y.-H. Kim, and B.-R. Moon, A hybrid genetic algorithm for the max cut problem, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 416–423, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [26] J.-P. Kim and B.-R. Moon, A hybrid genetic search for multi-way graph partitioning based on direct partitioning, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 408–415, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [27] S.-S. Choi and B.-R. Moon, A hybrid genetic search for the sorting network problem with evolving parallel layers, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 258–265, San Francisco, California, USA, 2001, Morgan Kaufmann.

- [28] T. Teich, M. Fischer, A. Vogel, and J. Fischer, A new ant colony algorithm for the job shop scheduling problem, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 803, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [29] F. Fernandez, J. M. Sanchez, and M. Tomassini, A new methodology for the placement and routing problem based on padgp, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 175, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [30] M. Miki, T. Hiroyasu, and T. Mizuta, A new parallel distributed genetic algorithm applied to traveling salesman problems, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 772, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [31] N. Toshine, N. Iwachi, S. Wakabayashi, T. Koide, and I. Nishimura, A parallel genetic algorithm with adaptive adjustment of genetic parameters, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 679–686, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [32] D. E. Goldberg and K. Sastry, A practical schema theorem for genetic algorithm design and tuning, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 328–335, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [33] D. J. Montana, A reconfigurable optimizing scheduler, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1159–1166, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [34] M. T. Jensen, A remark on solving minimax problems with coevolution, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 769, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [35] S. Koizumi, S. Wakabayashi, T. Koide, K. Fujiwara, and N. Imura, A risc processor for high-speed execution of genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1338–1345, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [36] F. P. Espinoza, B. S. Minsker, and D. E. Goldberg, A self adaptive hybrid genetic algorithm, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 759, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [37] H. A. Abbass, A single queen single worker honey-bees approach to 3-sat, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 807–814, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [38] A. Braud and C. Vrain, A study of the scalability of a data mining genetic algorithm on a distributed database, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 753, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [39] S. Luke and L. Panait, A survey and comparison of tree generation algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 81–88, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [40] E. Poupert and Y. Deville, Acceptance driven local search and evolutionary algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1173–1180, San Francisco, California, USA, 2001, Morgan Kaufmann.

- [41] J.-H. Kim and B.-R. Moon, Adaptive and dynamic elevator group control with a genetic algorithm, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1322–1329, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [42] C.-Y. Lee and E. K. Antonsson, Adaptive evolvability via non-coding segment induced linkage, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 448–453, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [43] K. L. Downing, Adaptive genetic programs via reinforcement learning, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 19–26, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [44] M. Keijzer, V. Babovic, C. Ryan, M. O’Neill, and M. Cattolico, Adaptive logic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 42–49, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [45] M. Elhadeif and D. A. Coley, Adaptive mutation for semi-separable problems, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 306–312, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [46] P. Gerard and O. Sigaud, Adding a generalization mechanism to yacs, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 951–957, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [47] M. C. J. Bot, N. Urquhart, and K. Chisholm, Agent motion planning with gas enhanced by memory models, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 227–234, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [48] B. Pesic, N. Durand, and J.-M. Alliot, Aircraft ground traffic optimisation using a genetic algorithm, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1397–1404, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [49] E. Kee, S. Airey, and W. Cyre, An adaptive genetic algorithm, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 391–397, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [50] C.-F. Huang, An analysis of mate selection in genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 766, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [51] M. Guntsch, M. Middendorf, and H. Schmeck, An ant colony optimization approach to dynamic tsp, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 860–867, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [52] R. S. Parpinelli, H. S. Lopes, and A. A. Freitas, An ant colony based system for data mining: Applications to medical data, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 791–797, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [53] R. P. Wiegand, W. C. Liles, and K. A. De Jong, An empirical analysis of collaboration methods in cooperative coevolutionary algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1235–1242, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [54] J. I. van Hemert and M. L. M. Jansen, An engineering approach to evolutionary art, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 177, San Francisco, California, USA, 2001, Morgan Kaufmann.

- [55] J. Kim and P. J. Bentley, An evaluation of negative selection in an artificial immune system for network intrusion detection, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1330–1337, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [56] C. B. Congdon, An exploration in combatting premature convergence, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 755, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [57] D. R. Carvalho and A. A. Freitas, An immunological algorithm for discovering small-disjunct rules in data mining, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 904, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [58] A. S. Wu, S. Jin, G. Schiavone, and K.-C. Lin, An incremental fitness function for partitioning parallel tasks, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 733–740, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [59] H. J. C. Barbosa and A. M. S. Barreto, An interactive genetic algorithm with co-evolution of weights for multiobjective problems, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 203–210, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [60] A. H. El-Maleh, S. M. Sait, and S. Z. Shazli, An iterative heuristic for state justification in sequential automatic test pattern generation, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1019–1025, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [61] H. Shibata and N. Fujii, Analog circuit synthesis based on reuse of topological features of prototype circuits, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1205–1214, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [62] M. V. Butz and M. Pelikan, Analyzing the evolutionary pressures in xcs, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 935–942, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [63] J. Aguilar, Ant colony optimization, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 801, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [64] R. Mehrotra, C. L. Karr, and T. A. Zeiler, Application of genetic algorithm to determining worst-case gust loads and the dynamic response of aircraft structures, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1451, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [65] T. Teich, H. Meier, and H. Schallner, Application service providing for shop floor scheduling in non-hierarchical regional production networks using genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1455, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [66] K. F. Doerner, R. F. Hartl, and M. Reimann, Are competentants more competent for problem solving? - the case of a routing and scheduling problem, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 802, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [67] L. Spector, Autoconstructive evolution: Push, pushgp, and pushpop, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 137–146, San Francisco, California, USA, 2001, Morgan Kaufmann.

- [68] M. Streeter and L. A. Becker, Automated discovery of numerical approximation formulae via genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 147–154, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [69] J. R. Koza, W. Mydlowec, G. Lanza, J. Yu, and M. A. Keane, Automatic synthesis of both the topology and sizing of metabolic pathways using genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 57–65, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [70] M. Pelikan, D. E. Goldberg, and K. Sastry, Bayesian optimization algorithm, decision graphs, and occam’s razor, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 519–526, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [71] T. Nomura, Behavior analysis of real-valued evolutionary algorithms for independent loci in an infinite population, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 774, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [72] J. D. Knowles and D. W. Corne, Benchmark problem generators and results for the multiobjective degree-constrained minimum spanning tree problems, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 424–431, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [73] G. S. Hornby and J. B. Pollack, Body-brain co-evolution using l-systems as a generative encoding, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 868–875, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [74] P. Martin, Building a taxonomy of genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 182, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [75] C. Van Hoyweghen, D. E. Goldberg, and B. Naudts, Building block superiority, multimodality and synchronization problems, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 694–701, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [76] A. Menon, Building blocks: A combinatorial road to greed, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 477–484, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [77] M. Ortmann and W. Weber, Calculating robot trajectories with parallel evolutionary strategies, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1453, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [78] L. B. Booker, Classifier systems, endogenous fitness, and delayed rewards: A preliminary investigation, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 921–926, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [79] R. A. Watson and J. B. Pollack, Coevolutionary dynamics in a minimal substrate, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 702–709, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [80] E. K. Burke, P. Cowling, J. D. L. Silva, and S. Petrovic, Combining hybrid metaheuristics and populations for the multiobjective optimisation of space allocation problems, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1252–1259, San Francisco, California, USA, 2001, Morgan Kaufmann.

- [81] A. R. Paton, Computing with membranes: P systems with dna-worms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1016, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [82] E. E. Korkmaz and G. Ucoluk, Controlling the genetic programming search, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 180, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [83] S. Arai and K. Sycara, Credit assignment method for learning effective stochastic policies in uncertain domain, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 815–822, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [84] P. A. N. Bosman and D. Thierens, Crossing the road to efficient ideas for permutation problems, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 219–226, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [85] A. Tomlinson and L. Bull, Cxcs: Improvements and corporate generalization, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 966–973, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [86] A. H. Wright and A. Agapie, Cyclic and chaotic behavior in genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 718–724, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [87] M.-C. Portmann and M.-A. Aloulou, Data oriented genetic operators for one-machine scheduling problems’, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1184, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [88] P. M. Reed, B. S. Minsker, and D. E. Goldberg, Designing a new elitist nondominated sorted genetic algorithm for a multiobjective long term groundwater monitoring application, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1454, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [89] H.-M. Chen and S.-Y. Ho, Designing an optimal evolutionary fuzzy decision tree for data mining, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 943–950, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [90] M. O’Neill, T. Brabazon, C. Ryan, and J. J. Collins, Developing a market timing system using grammatical evolution, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1375–1381, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [91] R. R. F. Mendes, F. de B. Voznika, J. C. Nievola, and A. A. Freitas, Discovering fuzzy classification rules with genetic programming and co-evolution, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 183, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [92] M. H. Garzon and C. Oehmen, Distributed virtual test tubes, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 997–1004, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [93] R. Deaton, Dna and quantum computers, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 989–996, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [94] K. Sastry, D. E. Goldberg, and M. Pelikan, Don’t evaluate, inherit, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 551–558, San Francisco, California, USA, 2001, Morgan Kaufmann.

- [95] Y. Jin, M. Olhofer, and B. Sendhoff, Dynamic weighted aggregation for evolutionary multi-objective optimization: Why does it work and how?, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1042–1049, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [96] F. van den Bergh and A. P. Engelbrecht, Effects of swarm size on cooperative particle swarm optimisers, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 892–899, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [97] L. A. Albert and D. E. Goldberg, Efficient evaluation relaxation under integrated fitness functions, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 751, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [98] J. Branke, C. Schmidt, and H. Schmeck, Efficient fitness estimation in noisy environments, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 243–250, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [99] N. Krasnogor and J. Smith, Emergence of profitable search strategies based on a simple inheritance mechanism, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 432–439, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [100] N. E. Nawa, K. Shimohara, and O. Katai, Equilibrium selection in a sequential multi-issue bargaining model using evolutionary algorithms: A preliminary study, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 906, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [101] M. Pelikan and D. E. Goldberg, Escaping hierarchical traps with competent genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 511–518, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [102] M. Duan and R. J. Povinelli, Estimating stock price predictability using genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 174, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [103] R. Huber, Estimation of mixture parameters by a hybrid ga/em method: Application to radar remote sensing data, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1449, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [104] E. Uchibe, M. Yanase, and M. Asada, Evolution for behavior selection accelerated by activation/termination constraints, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1122–1129, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [105] J. C. Gallagher, Evolution of dynamical neural network arrays to correct arrhythmias in a simulated human heart, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1189–1196, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [106] R. E. Keller and W. Banzhaf, Evolution of genetic code on a hard problem, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 50–56, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [107] J. Miller, Evolution of program size in cartesian genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 184, San Francisco, California, USA, 2001, Morgan Kaufmann.



- [108] T. Abou-Assaleh, J. Zhang, and N. Cercone, Evolution of recurrent neural networks to control autonomous life agents, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 903, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [109] A. Eriksson and K. Lindgren, Evolution of strategies in repeated stochastic games with full information of the payoff matrix, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 853–859, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [110] I. F. Sbalzarini, S. D. Muller, P. D. Koumoutsakos, and G.-H. Cottet, Evolution strategies for computational and experimental fluid dynamic applications, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1064–1071, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [111] J. Huhse and A. Zell, Evolution strategy with neighborhood attraction - a robust evolution strategy, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1026–1033, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [112] T. Krink, R. K. Ursem, and B. Filipic, Evolutionary algorithms in control optimization: The greenhouse problem, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 440–447, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [113] G. Dozier, Evolutionary hill-climbing, virtual constraints, and recurrent dynamic csps, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 758, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [114] D. Keymeulen, A. Stoica, M. Buehler, R. Zebulum, and V. Duong, Evolutionary mechanisms for smart on-board adaptive sensing applied to the meca electrometer, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1197–1204, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [115] W. Pedrycz and M. Reformat, Evolutionary optimization of logic-oriented systems, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1389–1396, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [116] K. Weinert, T. Surmann, and J. Mehnen, Evolutionary surface reconstruction using csg-nurbs-hybrids, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1456, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [117] R. L. B. French and R. I. Damper, Evolving a nervous system of spiking neurons for a behaving robot, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1099–1106, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [118] L.-K. Soh, C. Tsatsoulis, M. E. Jones, and A. Agah, Evolving cases for case-based reasoning multiagent negotiations, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 909, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [119] D. Dasgupta and F. A. Gonzalez, Evolving complex fuzzy classifier rules using a linear tree genetic representation, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 299–305, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [120] A. L. V. Coelho, D. Weingaertner, and F. J. Von Zuben, Evolving heterogeneous neural networks for classification problems, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 266–273, San Francisco, California, USA, 2001, Morgan Kaufmann.

- [121] J. K. Bassett, R. P. Wiegand, and K. A. De Jong, Evolving multi-agent behaviors using a tunable problem landscape, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1133, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [122] J. Bruce and R. Miikkulainen, Evolving populations of expert neural networks, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 251–257, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [123] C. Frey and G. Leugering, Evolving strategies for global optimization - a finite state machine approach, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 27–33, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [124] T. Fuhner and C. Jacob, Evolvision - an evolvisica visualization tool, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 176, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [125] R. Poli and N. F. McPhee, Exact schema theory for gp and variable-length gas with homologous crossover, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 104–111, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [126] K. C. Tan, E. F. Khor, C. M. Heng, and T. H. Lee, Exploratory multi-objective evolutionary algorithm: Performance study and comparisons, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 647–654, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [127] M. C. Goldberg and E. F. Gouvea, Extra-intracellular transgenetic algorithm, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 762, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [128] A. Topchy and W. F. Punch, Faster genetic programming based on local gradient search of numeric leaf values, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 155–162, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [129] K. Imamura and J. A. Foster, Fault-tolerant computing with n-version genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 178, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [130] J. C. Hernandez, A. Ribagorda, P. Isasi, and J. M. Sierra, Finding near optimal parameters for linear congruential pseudorandom number generators by means of evolutionary computation, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1292–1298, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [131] M. Dastani, E. Marchiori, and R. Voorn, Finding perceived pattern structures using genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 3–10, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [132] M. T. Jensen, Finding worst-case flexible schedules using coevolution, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1144–1151, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [133] K. Seo, E. D. Goodman, and R. C. Rosenberg, First steps toward automated design of mechatronic systems using bond graphs and genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 189, San Francisco, California, USA, 2001, Morgan Kaufmann.

- [134] R. Vanyi, Fitness functions for generated binary images, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 786, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [135] B. P. Enochs and R. L. Wainwright, Forging optimal solutions to the edge-coloring problem, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 313–319, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [136] S. W. Wilson, Function approximation with a classifier system, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 974–981, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [137] T. Soule and R. B. Heckendorn, Function sets in genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 190, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [138] H. Handa *et al.*, Fusion of coevolutionary ga and machine learning techniques through effective schema extraction, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 764, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [139] J. Aguilar and M. Cerrada, Fuzzy classifier system and genetic programming on system identification problems, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1245–1251, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [140] S. M. Sait, H. Youssef, and J. A. Khan, Fuzzy evolutionary algorithm for vlsi placement, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1056–1063, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [141] D. Qi and R. Sun, Ga-based multi-agent reinforcement learning for playing backgammon, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 777, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [142] A. J. Pindor, Ga313 genetic algorithm for systems with 2d genotype, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 776, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [143] D. D. B. van Bragt and J. A. La Poutre, Generating efficient automata for negotiations - an exploration with evolutionary algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1093, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [144] E. L. Johnson, Genetic algorithms as algorithm adversaries, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1314–1321, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [145] T. Tyni and J. Ylinen, Genetic algorithms in elevator car routing problem, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1413–1422, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [146] J. A. Wright and R. Farmani, Genetic algorithms: A fitness formulation for constrained minimization, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 725–732, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [147] J. Schloman and B. Blackford, Genetic programming evolves a human-competitive player for a complex, on-line, interactive, multi-player game of strategy, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 188, San Francisco, California, USA, 2001, Morgan Kaufmann.

- [148] W. B. Langdon and B. F. Buxton, Genetic programming for combining classifiers, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 66–73, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [149] D. Howard and S. C. Roberts, Genetic programming solution of the convection-diffusion equation, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 34–41, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [150] N. Nikolaev and H. Iba, Genetic programming using chebishev polynomials, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 89–96, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [151] J. Mao, K. Hirasawa, J. Hu, and J. Murata, Genetic symbiosis algorithm for multiobjective optimization problems, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 771, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [152] H.-D. Jin, K.-S. Leung, and M.-L. Wong, Genetic-guided model-based clustering analysis, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 770, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [153] R. Vanyi and G. Kokai, Giving structural descriptions of tree-like objects from binary images using genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 163–172, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [154] B. Hartke, Global geometry optimization of atomic and molecular clusters by genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1284–1291, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [155] M. O’Neill, C. Ryan, and M. Nicolau, Grammar defined introns: An investigation into grammars, introns, and bias in grammatical evolution, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 97–103, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [156] A. Globus, J. Lawton, and T. Wipke, Graph crossover, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 761, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [157] Y. Liu, How to evolve a cooperative population by minimizing mutual information, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1095, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [158] M. V. Butz, T. Kovacs, P. L. Lanzi, and S. W. Wilson, How xcs evolves accurate classifiers, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 927–934, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [159] M. Lovbjerg, T. K. Rasmussen, and T. Krink, Hybrid particle swarm optimiser with breeding and subpopulations, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 469–476, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [160] S. Matsui and K. ichi Tokoro, Improving the performance of a genetic algorithm for minimum span frequency assignment problem with an adaptive mutation rate and a new initialization method, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1359–1366, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [161] P. Monsieurs and E. Flerackers, Increasing the diversity of a population in genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 185, San Francisco, California, USA, 2001, Morgan Kaufmann.

- [162] H. E. Aguirre, K. Tanaka, and S. Oshita, Increasing the robustness of distributed genetic algorithms by parallel cooperative-competitive genetic operators, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 195–202, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [163] C.-F. Huang, Independent sampling genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 367–374, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [164] A. Tiwari, R. Roy, G. Jared, and O. Munaux, Interaction and multi-objective optimisation, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 671–678, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [165] A. Berlanga, P. Isasi, and J. Segovia, Interactive evolutionary computation with small population to generate gestures in avatars, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 823–828, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [166] F. Divina and E. Marchiori, Knowledge based evolutionary programming for inductive learning in first-order logic, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 173, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [167] X. Llorca and J. M. Garrell, Knowledge-independent data mining with fine-grained parallel evolutionary algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 461–468, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [168] T. Boussonville, Local search and evolutionary computation for arc routing in garbage collection, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1137–1143, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [169] J. Poland and A. Zell, Main vector adaptation: A cma variant with linear time and space complexity, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1050–1055, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [170] R. Poli, J. E. Rowe, and N. F. McPhee, Markov chain models for gp and variable-length gas with homologous crossover, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 112–119, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [171] M. Belaidouni and J.-K. Hao, Max-csp and fitness landscapes, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 752, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [172] P. L. Lanzi, Mining interesting knowledge from data with the xcs classifier system, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 958–965, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [173] R. Huber and T. Schell, Mixed size tournament selection, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 767, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [174] A. Kosorukoff, J. Mittenthal, and D. Goldberg, Modeling of evolution of signaling networks in living cells by evolutionary computation, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 905, San Francisco, California, USA, 2001, Morgan Kaufmann.

- [175] K. Sastry and D. E. Goldberg, Modeling tournament selection with replacement using apparent added noise, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 781, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [176] J. Smith, Modelling gas with self adaptive mutation rates, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 599–606, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [177] K. L. Downing, Modular designer chemistries for artificial life, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 845–852, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [178] B. Naudts, L. Schoofs, and A. Verschoren, Moments of schema fitness distributions for multary alphabets, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 773, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [179] R. Goto and Y. Sato, Motion analysis of moving objects with genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1276–1283, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [180] J.-H. Chen and S.-Y. Ho, Multi-objective evolutionary optimization of flexible manufacturing systems, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1260–1267, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [181] A. Farhang-Mehr and S. Azarm, Multi-objective genetic algorithms with concepts from statistical thermodynamics, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1075, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [182] D. Thierens and P. A. N. Bosman, Multi-objective mixture-based iterated density estimation evolutionary algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 663–670, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [183] B. Lorenc, Multidimensional scaling using evolutionary computation, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1450, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [184] J. H. Moore and L. W. Hahn, Multilocus pattern recognition using cellular automata and parallel genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1452, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [185] C. A. Coello and G. T. Pulido, Multiobjective optimization using a micro-genetic algorithm, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 274–282, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [186] D. Vrajitoru, Nested genetic algorithms with problem division, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 787, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [187] H. Katagiri, K. Hirasawa, J. Hu, and J. Murata, Network structure oriented evolutionary model – genetic network programming–and its comparison with, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 179, San Francisco, California, USA, 2001, Morgan Kaufmann.

- [188] C. Ryan, M. O'Neill, and A. Azad, No coercion and no prohibition - a position independent encoding scheme for evolutionary algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 187, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [189] W. A. Greene, Non-linear bit arrangements in genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 763, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [190] K. C. Tan, T. H. Lee, E. F. Khor, C. M. Heng, and D. Khoo, Nonlinear constraint handling technique via angular transformation, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 655–662, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [191] R. B. Heckendorn, Of heisenberg and epistasis, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 765, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [192] J. Wu and S. Azarm, On a new constraint handling technique for multi-objective genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 741–748, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [193] A. Simoes and E. Costa, On biologically inspired genetic operators: Transformation in the standard genetic algorithm, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 584–591, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [194] B. J. Jain, H. Pohlheim, and J. Wegener, On termination criteria of evolutionary algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 768, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [195] F. Schmitt and F. Rothlauf, On the importance of the second largest eigenvalue on the convergence rate of genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 559–564, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [196] J. Denzinger and M. Kordt, On the influence of learning time on evolutionary online learning of cooperative behavior, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 837–844, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [197] D. E. Goldberg, K. Sastry, and T. Latoza, On the supply of building blocks, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 336–342, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [198] T. Jansen and I. Wegener, On the utility of populations in evolutionary algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1034–1041, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [199] C. Igel and M. Kreutz, Operator adaptation in structure optimization of neural networks, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1094, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [200] M. L. Gargano and W. Edelson, Optimal sequenced matroid bases solved by ga's with feasible search space including applications, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1447, San Francisco, California, USA, 2001, Morgan Kaufmann.

- [201] Y. Li, X. Xin, N. Kikuchi, and K. Saitou, Optimal shape and location of piezoelectric materials for topology optimization of flextensional actuators, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1085–1090, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [202] L. A. Anbarasu, V. Sundararajan, and P. Narayanasamy, Parallel genetic algorithm for performance-driven sequence alignment, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1015, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [203] J. Noble and R. A. Watson, Pareto coevolution: Using performance against coevolved opponents in a game as dimensions for pareto selection, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 493–500, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [204] Y.-K. Kwon and B.-R. Moon, Personalized email marketing with a genetic programming circuit model, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1352–1358, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [205] D. W. Corne, N. R. Jerram, J. D. Knowles, and M. J. Oates, Pesa-ii: Region-based selection in evolutionary multiobjective optimization, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 283–290, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [206] T. C. Belding, Potholes on the royal road, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 211–218, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [207] F. Schmiedle, N. Drechsler, D. Grosse, and R. Drechsler, Priorities in multi-objective optimization for genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 129–136, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [208] J. Wiles, R. Schulz, J. Hallinan, S. Bolland, and B. Tonkes, Probing the persistent question marks, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 710–717, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [209] Y. Sato, Proposal for a register transfer level evolution on a microprocessor incorporated flash memory, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1216, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [210] Y. Fujimoto and K. Shimohara, Proposal of eco-evolution, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 760, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [211] S. R. Michaud, J. B. Zydallis, G. B. Lamont, P. K. Harmer, and R. Pachter, Protein structure prediction with ea immunological computation, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1367–1374, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [212] J. Gottlieb, B. A. Julstrom, G. R. Raidl, , and F. Rothlauf, Pruffer numbers: A poor representation of spanning trees for evolutionary search, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 343–350, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [213] B. Rylander, T. Soule, J. Foster, and J. Alves-Foss, Quantum evolutionary programming, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1005–1011, San Francisco, California, USA, 2001, Morgan Kaufmann.



- [214] T. Jansen and I. Wegener, Real royal road functions - where crossover provably is essential, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 375–382, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [215] K. Weinert and M. Stautner, Reconstruction of particle flow mechanisms with symbolic regression via genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1439–1443, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [216] E. D. de Jong, R. A. Watson, and J. B. Pollack, Reducing bloat and promoting diversity using multi-objective methods, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 11–18, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [217] J. Branke, Reducing the sampling variance when searching for robust solutions, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 235–242, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [218] F. Neri, Relating two cooperative learning strategies to the features of the found concept description, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 986, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [219] M. Gen and C. Lee, Reliability optimization design using hybrid nn-ga with fuzzy logic controller, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1448, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [220] J. C. Bongard and R. Pfeifer, Repeated structure and dissociation of genotypic and phenotypic complexity in artificial ontogeny, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 829–836, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [221] H. Suzuki and H. Sawai, Schema evolution equation using quasi-schema representation, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 784, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [222] J. B. Vitrano and R. J. Povinelli, Selecting dimensions and delay values for a time-delay embedding using a genetic algorithm, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1423–1430, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [223] W. E. Hart, Self-adaptive evolutionary pattern search algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1076, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [224] S. Tsutsui, D. E. Goldberg, and K. Sastry, Simplex crossover and linkage learning in real-coded gas, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 785, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [225] E. Cantu-Paz, Single vs. multiple runs under constant computation cost, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 754, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [226] A. K. Kordon and G. F. Smits, Soft sensor development using genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1346–1351, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [227] J. A. Jimenez, J. C. Abderraman, P. D. Cuesta, , and G. Winter, Solving elliptical partial differential equations in a natural way, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1307–1313, San Francisco, California, USA, 2001, Morgan Kaufmann.

- [228] J.-T. Horng, M.-H. Jin, and C.-Y. Kao, Solving fixed channel assignment problems by an evolutionary approach, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 351–358, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [229] C. R. Stephens, Some exact results from a coarse grained formulation of genetic dynamics, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 631–638, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [230] M. Patrignani, Stability of arbitrary genes: a new approach to cooperation, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 907, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [231] B. G. W. Craenen and A. E. Eiben, Stepwise adaption of weights with refinement and decay on constraint satisfaction problems, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 291–298, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [232] C. Fu, S. W. Wilson, and L. Davis, Studies of the xcsi classifier system on a data mining problem, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 985, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [233] H. Furutani, Study of crossover in one max problem by linkage analysis, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 320–327, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [234] S. C. Roberts, D. Howard, and J. R. Koza, Subtree encapsulation versus adfs in gp for parity problems, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 186, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [235] P. V. Parthasarathy, D. E. Goldberg, and S. A. Burns, Tackling multimodal problems in hybrid genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 775, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [236] C.-H. Yeh and S.-H. Chen, The differences between social and individual learning on the time series properties: The approach based on genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 191, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [237] J. E. Rowe and N. F. McPhee, The effects of crossover and mutation operators on variable length linear structures, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 535–542, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [238] B. J. Ross, The evaluation of a stochastic regular motif language for protein sequences, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 120–128, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [239] G. B. Parker, The incremental evolution of gaits for hexapod robots, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1114–1121, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [240] R. Balling and S. Wilson, The maximin fitness function for multi-objective evolutionary computation: Application to city planning, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1079–1084, San Francisco, California, USA, 2001, Morgan Kaufmann.

- [241] R. Santana, A. Ochoa-Rodriguez, and M. R. Soto, The mixture of trees factorized distribution algorithm, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 543–550, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [242] C. Schumacher, M. D. Vose, and L. D. Whitley, The no free lunch and problem description length, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 565–570, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [243] R. S. Roos, The patchy ga and domination problems, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 779, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [244] Y. Gao and J. Culberson, The phase transition in nk landscapes is easy, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1227–1234, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [245] T. P. Riopka and P. Bock, The relevance of genotypic learning in the clga, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 778, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [246] W. W. Hsu and C.-C. Hsu, The spontaneous evolution genetic algorithm for solving the traveling salesman problem, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 359–366, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [247] T. Murata, S. Kawakami, H. Nozawa, M. Gen, and H. Ishibuchi, Three-objective genetic algorithms for designing compact fuzzy rule-based systems for pattern classification problems, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 485–492, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [248] H. Someya and M. Yamamura, Toroidal search space conversion for robust real-coded genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 782, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [249] M. Ekman, A. Magnusson, and P. Nordin, Two approaches for high-level evolvable hardware using function blocks, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 1215, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [250] F. B. Pereira and E. Costa, Understanding the role of learning in the evolution of busy beavers: a comparison between the baldwin effect and a lamarkian strategy, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 884–891, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [251] N. Rychtyckyj and R. G. Reynolds, Using cultural algorithms to improve knowledge base maintainability, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1405–1412, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [252] X. Liu, S. Swift, and A. Tucker, Using evolutionary algorithms to tackle large scale grouping problems, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 454–460, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [253] A. Tamaddoni-Nezhad and S. Muggleton, Using genetic algorithms for learning clauses in first-order logic, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 639–646, San Francisco, California, USA, 2001, Morgan Kaufmann.

- [254] T. Soule, Using genetic algorithms to evolve cooperative teams, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 783, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [255] G. M. B. Oliveira, P. P. B. de Oliveira, and N. Omar, Using heuristics related to cellular automata behavior forecast to improve genetic search for a grouping task, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, p. 181, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [256] A. Sinha and D. E. Goldberg, Verification and extension of the theory of global-local hybrids, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 592–598, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [257] R. P. Srivastava and D. E. Goldberg, Verification of the theory of genetic algorithm continuation, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 623–630, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [258] M. C. Martin, Visual obstacle avoidance using genetic programming: First results, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1107–1113, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [259] S. Christensen and F. Oppacher, What can we learn from no free lunch? a first attempt to characterize the concept of a searchable function, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 1219–1226, San Francisco, California, USA, 2001, Morgan Kaufmann.
- [260] S. Luke, When short runs beat long runs, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001)*, edited by L. Spector *et al.*, pp. 74–80, San Francisco, California, USA, 2001, Morgan Kaufmann.