

Список литературы

- [1] W. B. Langdon *et al.*, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, New York, 2002, Morgan Kaufmann Publishers.
- [2] J. Balthrop, F. Esponda, S. Forrest, and M. Glickman, Coverage and generalization in an artificial immune system, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 3–10, New York, 2002, Morgan Kaufmann Publishers.
- [3] M. Birattari, T. Stützle, L. Paquete, and K. Varrentrapp, A racing algorithm for configuring metaheuristics, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 11–18, New York, 2002, Morgan Kaufmann Publishers.
- [4] T. M. Blackwell and P. J. Bentley, Dynamic search with charged swarms, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 19–26, New York, 2002, Morgan Kaufmann Publishers.
- [5] C. Blum, Ant colony optimization for the edge-weighted k -cardinality tree problem, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 27–34, New York, 2002, Morgan Kaufmann Publishers.
- [6] C. Blum, M. Sampels, and M. Zlochin, On A particularity in model-based search, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 35–42, New York, 2002, Morgan Kaufmann Publishers.
- [7] T. N. Bui and L. C. Strite, An ant system algorithm for graph bisection, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 43–51, New York, 2002, Morgan Kaufmann Publishers.
- [8] J. A. Bullinaria, The evolution of variable learning rates, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 52–59, New York, 2002, Morgan Kaufmann Publishers.
- [9] A. Conradie, R. Miikkulainen, and C. Aldrich, Adaptive control utilising neural swarming, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 60–67, New York, 2002, Morgan Kaufmann Publishers.
- [10] R. J. W. Hodgson, Partical swarm optimization applied to the atomic cluster optimization problem, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 68–73, New York, 2002, Morgan Kaufmann Publishers.
- [11] C. Keber and M. G. Schuster, Option valuation with generalized ant programming, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 74–81, New York, 2002, Morgan Kaufmann Publishers.
- [12] N. P. Leahy, Effects of agent representation on the behavior of A non-reciprocal cooperation game, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 82–87, New York, 2002, Morgan Kaufmann Publishers.
- [13] S. Liang, A. N. Zincir-Heywood, and M. I. Heywood, Intelligent packets for dynamic network routing using distributed genetic algorithm, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 88–96, New York, 2002, Morgan Kaufmann Publishers.
- [14] K. E. Mathias and J. S. Byassee, Agent support of genetic search in an immunological model of sparse distributed memory, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 97–104, New York, 2002, Morgan Kaufmann Publishers.

- [15] D. Merkle and M. Middendorf, Studies on the dynamics of ant colony optimization algorithms, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 105–112, New York, 2002, Morgan Kaufmann Publishers.
- [16] K. O. Stanley and R. Miikkulainen, Continual coevolution through complexification, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 113–120, New York, 2002, Morgan Kaufmann Publishers.
- [17] K. Takadama, Y. L. Suematsu, N. E. Nawa, and K. Shimohara, Cross-validation in multiagent-based simulation: Analyzing evolutionary bargaining agents, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 121–128, New York, 2002, Morgan Kaufmann Publishers.
- [18] S. Ando and H. Iba, Ant algorithm for construction of evolutionary tree, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 131, New York, 2002, Morgan Kaufmann Publishers.
- [19] J. C. Bongard and R. Pfeifer, Behavioural selection pressure generates hierarchical genetic regulatory networks, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 132, New York, 2002, Morgan Kaufmann Publishers.
- [20] M. Boryczka and Z. J. Czech, Solving approximation problems by ant colony programming, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 133, New York, 2002, Morgan Kaufmann Publishers.
- [21] M. S. Capcarrere, Evolution of asynchronous cellular automata: Finding the good compromise, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 134, New York, 2002, Morgan Kaufmann Publishers.
- [22] S. Das, S. V. Gosavi, W. H. Hsu, and S. A. Vaze, An ant colony approach for the Steiner tree problem, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 135, New York, 2002, Morgan Kaufmann Publishers.
- [23] T. Lenaerts, A. Defaweux, P. Van Remortel, and B. Manderick, An individual-based approach to multi-level selection, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 136, New York, 2002, Morgan Kaufmann Publishers.
- [24] O. Pelletier and A. Weimerskirch, Algorithmic self-assembly of DNA tiles and its application to cryptanalysis, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 139–146, New York, 2002, Morgan Kaufmann Publishers.
- [25] B. Yurke and F. C. Simmel, A DNA-based three-state device, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 147–152, New York, 2002, Morgan Kaufmann Publishers.
- [26] J. Beaulieu, C. Gagné, and M. Parizeau, Lens system design and re-engineering with evolutionary algorithms, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 155–162, New York, 2002, Morgan Kaufmann Publishers.
- [27] J. C. Gallagher and S. Vigham, A modified compact genetic algorithm for the intrinsic evolution of continuous time recurrent neural networks, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 163–170, New York, 2002, Morgan Kaufmann Publishers.

- [28] M. Hartmann, F. Eskelund, P. C. Haddow, and J. F. Miller, Evolving fault tolerance on an unreliable technology platform, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 171–177, New York, 2002, Morgan Kaufmann Publishers.
- [29] U. Tangen, An evolvable micro-controller or what’s new about mutations?, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 178–186, New York, 2002, Morgan Kaufmann Publishers.
- [30] N. Niparnan and P. Chongstitvatana, An improved genetic algorithm for the inference of finite state machine, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 189, New York, 2002, Morgan Kaufmann Publishers.
- [31] B. K. Beachkofski and G. B. Lamont, Evolutionary programming based stratified design space sampling, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 193–200, New York, 2002, Morgan Kaufmann Publishers.
- [32] C. A. C. Coello and R. L. Becerra, Adding knowledge and efficient data structures to evolutionary programming: A cultural algorithm for constrained optimization, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 201–209, New York, 2002, Morgan Kaufmann Publishers.
- [33] M. A. Semenov, Convergence velocity of evolutionary algorithm with self-adaptation, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 210–213, New York, 2002, Morgan Kaufmann Publishers.
- [34] M. L. Wong, S. Y. Lee, and K. S. Leung, A hybrid data mining approach to discover Bayesian networks using evolutionary programming, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 214–222, New York, 2002, Morgan Kaufmann Publishers.
- [35] Y. Liu and X. Yao, Search step size control in fast evolutionary programming, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 225, New York, 2002, Morgan Kaufmann Publishers.
- [36] J. DeLaurentis, L. Ferguson, and W. E. Hart, On the convergence properties of A simple self-adaptive evolutionary algorithm, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 229–237, New York, 2002, Morgan Kaufmann Publishers.
- [37] T. Jansen and K. De Jong, An analysis of the role of offspring population size in EAs, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 238–246, New York, 2002, Morgan Kaufmann Publishers.
- [38] T. Okabe, Y. Jin, and B. Sendhoff, On the dynamics of evolutionary multi-objective optimization, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 247–256, New York, 2002, Morgan Kaufmann Publishers.
- [39] D. J. John, Co-evolution with the Bierwirth-Mattfeld hybrid scheduler, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 259, New York, 2002, Morgan Kaufmann Publishers.
- [40] U. Aickelin and L. Bull, Partnering strategies for fitness evaluation in A pyramidal evolutionary algorithm, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 263–270, New York, 2002, Morgan Kaufmann Publishers.
- [41] L. A. Albert and D. E. Goldberg, Efficient discretization scheduling in multiple dimensions, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 271–278, New York, 2002, Morgan Kaufmann Publishers.

- [42] M. Alden, A. van Kesteren, and R. Miikkulainen, Eugenic evolution utilizing A domain model, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 279–286, New York, 2002, Morgan Kaufmann Publishers.
- [43] H. J. C. Barbosa and A. C. C. Lemonge, An adaptive penalty scheme in genetic algorithms for constrained optimization problems, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 287–294, New York, 2002, Morgan Kaufmann Publishers.
- [44] J. S. Byassee and K. E. Mathias, Expediting genetic search with dynamic memory, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 295–302, New York, 2002, Morgan Kaufmann Publishers.
- [45] E. Cantú-Paz, Feature subset selection by estimation of distribution algorithms, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 303–310, New York, 2002, Morgan Kaufmann Publishers.
- [46] E. Cantú-Paz, On random numbers and the performance of genetic algorithms, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 311–318, New York, 2002, Morgan Kaufmann Publishers.
- [47] J.-H. Chen, D. E. Goldberg, S.-Y. Ho, and K. Sastry, Fitness inheritance in multi-objective optimization, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 319–326, New York, 2002, Morgan Kaufmann Publishers.
- [48] S.-S. Choi and B.-R. Moon, Isomorphism, normalization, and A genetic algorithm for sorting network optimization, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 327–334, New York, 2002, Morgan Kaufmann Publishers.
- [49] S.-S. Choi and B.-R. Moon, More effective genetic search for the sorting network problem, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 335–342, New York, 2002, Morgan Kaufmann Publishers.
- [50] F. Divina and E. Marchiori, Evolutionary concept learning, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 343–350, New York, 2002, Morgan Kaufmann Publishers.
- [51] C. Galindo-Legaria and F. Waas, The effect of cost distributions on evolutionary optimization algorithms, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 351–358, New York, 2002, Morgan Kaufmann Publishers.
- [52] S. M. Garrett and J. H. Walker, Combining evolutionary and non-evolutionary methods in tracking dynamic global optima, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 359–366, New York, 2002, Morgan Kaufmann Publishers.
- [53] W. A. Greene, A genetic algorithm with self-distancing bits but no overt linkage, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 367–374, New York, 2002, Morgan Kaufmann Publishers.
- [54] S. G. Hohmann, J. Schemmel, F. Schürmann, and K. Meier, Exploring the parameter space of A genetic algorithm for training an analog neural network, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 375–382, New York, 2002, Morgan Kaufmann Publishers.
- [55] W. H. Hsu, H. Guo, B. B. Perry, and J. A. Stilson, A permutation genetic algorithm for variable ordering in learning Bayesian networks from data, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 383–390, New York, 2002, Morgan Kaufmann Publishers.

- [56] M. Hüskens and C. Igel, Balancing learning and evolution, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 391–398, New York, 2002, Morgan Kaufmann Publishers.
- [57] H. Ishibuchi and T. Yamamoto, Fuzzy rule selection by data mining criteria and genetic algorithms, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 399–406, New York, 2002, Morgan Kaufmann Publishers.
- [58] J.-H. Kim and B.-R. Moon, Neuron reordering for better neuro-genetic hybrids, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 407–414, New York, 2002, Morgan Kaufmann Publishers.
- [59] S. O. Kimbrough, M. Lu, D. H. Wood, and D. J. Wu, Exploring A two-market genetic algorithm, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 415–422, New York, 2002, Morgan Kaufmann Publishers.
- [60] T. E. Koch and A. Zell, MOCS: Multi-objective clustering selection evolutionary algorithm, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 423–430, New York, 2002, Morgan Kaufmann Publishers.
- [61] S. V. Kumar and S. R. Ranjithan, Evaluation of the constraint method-based evolutionary algorithm (CMEA) for A three-objective problem, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 431–438, New York, 2002, Morgan Kaufmann Publishers.
- [62] M. Laumanns, L. Thiele, E. Zitzler, and K. Deb, Archiving with guaranteed convergence and diversity in multi-objective optimization, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 439–447, New York, 2002, Morgan Kaufmann Publishers.
- [63] Y. Liu and X. Yao, Maintaining population diversity by minimizing mutual information, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 448–455, New York, 2002, Morgan Kaufmann Publishers.
- [64] J. Mao, K. Hirasawa, J. Hu, and J. Murata, Increasing robustness of genetic algorithm, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 456–462, New York, 2002, Morgan Kaufmann Publishers.
- [65] A. Menon, The point of point crossover: Shuffling to randomness, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 463–471, New York, 2002, Morgan Kaufmann Publishers.
- [66] P. Merz, A comparison of memetic recombination operators for the traveling salesman problem, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 472–479, New York, 2002, Morgan Kaufmann Publishers.
- [67] M. M. Meyesenburg, D. Hoelting, D. McElvain, and J. A. Foster, How random generator quality impacts GA performance, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 480–487, New York, 2002, Morgan Kaufmann Publishers.
- [68] M. Nicolau and C. Ryan, LINKGAUGE: Tackling hard deceptive problems with A new linkage learning genetic algorithm, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 488–494, New York, 2002, Morgan Kaufmann Publishers.
- [69] G. Ochoa, Setting the mutation rate: Scope and limitations of the $1/L$ heuristic, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 495–502, New York, 2002, Morgan Kaufmann Publishers.

- [70] L. Panait and S. Luke, A comparison of two competitive fitness functions, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 503–511, New York, 2002, Morgan Kaufmann Publishers.
- [71] M. Pelikan, D. E. Goldberg, and S. Tsutsui, Combining the strengths of Bayesian optimization algorithm and adaptive evolution strategies, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 512–519, New York, 2002, Morgan Kaufmann Publishers.
- [72] R. C. Purshouse and P. J. Fleming, Why use elitism and sharing in A multi-objective genetic algorithm?, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 520–527, New York, 2002, Morgan Kaufmann Publishers.
- [73] K. Sastry and D. E. Goldberg, Genetic algorithms, efficiency enhancement, and deciding well with differing fitness variances, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 528–535, New York, 2002, Morgan Kaufmann Publishers.
- [74] K. Sastry and D. E. Goldberg, Genetic algorithms, efficiency enhancement, and deciding well with differing fitness bias values, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 536–543, New York, 2002, Morgan Kaufmann Publishers.
- [75] D.-I. Seo and B.-R. Moon, Voronoi quantized crossover for traveling salesman problem, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 544–552, New York, 2002, Morgan Kaufmann Publishers.
- [76] H. Someya and M. Yamamura, Robust evolutionary algorithms with toroidal search space conversion for function optimization, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 553–560, New York, 2002, Morgan Kaufmann Publishers.
- [77] A. V. Spirov and A. B. Kazansky, Jumping genes-mutators can rise efficacy of evolutionary search, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 561–568, New York, 2002, Morgan Kaufmann Publishers.
- [78] K. O. Stanley and R. Miikkulainen, Efficient reinforcement learning through evolving neural network topologies, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 569–577, New York, 2002, Morgan Kaufmann Publishers.
- [79] C. R. Stephens, R. Poli, A. H. Wright, and J. E. Rowe, Exact results from A coarse grained formulation of the dynamics of variable-length genetic algorithms, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 578–585, New York, 2002, Morgan Kaufmann Publishers.
- [80] C. Stone and J. Smith, Strategy parameter variety in self-adaptation of mutation rates, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 586–593, New York, 2002, Morgan Kaufmann Publishers.
- [81] H. Stringer and A. S. Wu, A simple method for detecting domino convergence and identifying salient genes within A genetic algorithm, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 594–601, New York, 2002, Morgan Kaufmann Publishers.
- [82] A. Tiwari and R. Roy, Variable dependence interaction and multi-objective optimisation, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 602–609, New York, 2002, Morgan Kaufmann Publishers.

- [83] H.-K. Tsai, J.-M. Yang, and C.-Y. Kao, Applying genetic algorithms to finding the optimal gene order in displaying the microarray data, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 610–617, New York, 2002, Morgan Kaufmann Publishers.
- [84] A. F. Tulai and F. Oppacher, Combining competitive and cooperative coevolution for training cascade neural networks, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 618–625, New York, 2002, Morgan Kaufmann Publishers.
- [85] C. Van Hoyweghen, D. E. Goldberg, and B. Naudts, From twomax to the ising model: Easy and hard symmetrical problems, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 626–633, New York, 2002, Morgan Kaufmann Publishers.
- [86] D. Vrajitoru, Simulating gender separation with genetic algorithms, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 634–641, New York, 2002, Morgan Kaufmann Publishers.
- [87] A. H. Wright, J. E. Rowe, R. Poli, and C. R. Stephens, A fixed point analysis of A gene pool GA with mutation, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 642–649, New York, 2002, Morgan Kaufmann Publishers.
- [88] S. Yang, Adaptive non-uniform crossover based on statistics for genetic algorithms, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 650–657, New York, 2002, Morgan Kaufmann Publishers.
- [89] Z.-Y. Zhu and K.-S. Leung, An enhanced annealing genetic algorithm for multi-objective optimization problems, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 658–665, New York, 2002, Morgan Kaufmann Publishers.
- [90] E. Zitzler, M. Laumanns, L. Thiele, C. M. Foneseca, and V. G. da Fonseca, Why quality assessment of multiobjective optimizers is difficult, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 666–674, New York, 2002, Morgan Kaufmann Publishers.
- [91] J. Bacardit and J. M. Garrell, Evolution of adaptive discretization intervals for A rule-based genetic learning system, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 677, New York, 2002, Morgan Kaufmann Publishers.
- [92] D. Devogelaere and M. Rijckaert, Influences of clustering modifications on the performance of the genetic algorithm driven clustering algorithm, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 678, New York, 2002, Morgan Kaufmann Publishers.
- [93] A. S. Etaner-Uyar and A. E. Harmanci, Preserving diversity in changing environments through diploidy with adaptive dominance, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 679, New York, 2002, Morgan Kaufmann Publishers.
- [94] W. H. Hsu, C. P. Schmidt, and J. A. Louis, Genetic algorithm wrappers for feature subset selection in supervised inductive learning, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 680, New York, 2002, Morgan Kaufmann Publishers.
- [95] C.-G. Huang, A study of fitness proportional mate selection schemes in genetic algorithms, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 681, New York, 2002, Morgan Kaufmann Publishers.

- [96] C.-F. Huang, A Markov chain analysis of fitness proportional mate selection schemes in genetic algorithm, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 682, New York, 2002, Morgan Kaufmann Publishers.
- [97] Y. Jin and B. Sendhoff, Incorporation of fuzzy preferences into evolutionary multiobjective optimization, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 683, New York, 2002, Morgan Kaufmann Publishers.
- [98] N. Khan, D. E. Goldberg, and M. Pelikan, Multiple-objective Bayesian optimization algorithm, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 684, New York, 2002, Morgan Kaufmann Publishers.
- [99] J.-P. Kim and B.-R. Moon, A hybrid genetic search for circuit bipartitioning, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 685, New York, 2002, Morgan Kaufmann Publishers.
- [100] Y.-H. Kim and B.-R. Moon, Visualization of the fitness landscape, A steady-state genetic search, and schema traces, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 686, New York, 2002, Morgan Kaufmann Publishers.
- [101] K. Knödler, J. Poland, A. Zell, and A. Mitterer, Memetic algorithms for combinatorial optimization problems in the calibration of modern combustion engines, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 687, New York, 2002, Morgan Kaufmann Publishers.
- [102] A. Kosorukoff, Using incremental evaluation and adaptive choice of operators in A genetic algorithm, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 688, New York, 2002, Morgan Kaufmann Publishers.
- [103] S.-K. Lee, D.-I. Seo, and B.-R. Moon, A hybrid genetic algorithm for optimal hexagonal tortoise problem, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 689, New York, 2002, Morgan Kaufmann Publishers.
- [104] P. Machado, J. Tavares, F. B. Pereira, and E. Costa, Vehicle routing problem: Doing it the evolutionary way, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 690, New York, 2002, Morgan Kaufmann Publishers.
- [105] M. M. Meyesenburg, D. Hoelting, D. McElvain, and J. A. Foster, A genetic algorithm-specific test of random generator quality, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 691, New York, 2002, Morgan Kaufmann Publishers.
- [106] J. E. Pettinger and R. M. Everson, Controlling genetic algorithms with reinforcement learning, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 692, New York, 2002, Morgan Kaufmann Publishers.
- [107] O. Prado and F. J. V. Zuben, An integrated system for phylogenetic inference using evolutionary algorithms, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 693, New York, 2002, Morgan Kaufmann Publishers.
- [108] R. S. Roos, T. Bennett, J. Hannon, and E. Zehner, A genetic algorithm for improved shellsort sequences, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 694, New York, 2002, Morgan Kaufmann Publishers.

- [109] F. Rothlauf, The influence of binary representations of integers on the performance of selectorecombinative genetic algorithms, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 695, New York, 2002, Morgan Kaufmann Publishers.
- [110] I. Sekaj, M. Foltin, and M. Gonos, Genetic algorithm based adaptive control of an electromechanical MIMO system, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 696, New York, 2002, Morgan Kaufmann Publishers.
- [111] A. Simões and E. Costa, Parametric study to enhance the genetic algorithm's performance when using transformation, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 697, New York, 2002, Morgan Kaufmann Publishers.
- [112] A. Simões and E. Costa, Using GAs to deal with dynamic environments: A comparative study of several approaches based on promoting diversity, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 698, New York, 2002, Morgan Kaufmann Publishers.
- [113] A. Singh, D. E. Goldberg, and Y.-P. Chen, Modified linkage learning genetic algorithm for difficult non-stationary problems, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 699, New York, 2002, Morgan Kaufmann Publishers.
- [114] T. Tyni and J. Ylinen, Bi-directional circular linked lists in fitness caching, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 700, New York, 2002, Morgan Kaufmann Publishers.
- [115] T. Ueda, N. Koga, I. Ono, and M. Okamoto, Application of numerical optimization technique based on real-coded genetic algorithm to inverse problem in biochemical systems, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 701, New York, 2002, Morgan Kaufmann Publishers.
- [116] S. Watanabe, T. Hiroyasu, and M. Miki, LCGA: Local cultivation genetic algorithm for multi-objective optimization problems, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 702, New York, 2002, Morgan Kaufmann Publishers.
- [117] A. S. Wu and I. Garibay, The proportional genetic algorithm representation, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 703, New York, 2002, Morgan Kaufmann Publishers.
- [118] T. Yu and J. Miller, Climbing unimodal landscapes with neutrality: A case study of the one-max problem, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 704, New York, 2002, Morgan Kaufmann Publishers.
- [119] R. M. A. Azad, C. Ryan, M. E. Burke, and A. R. Ansari, A re-examination of the cart centering problem using the chorus system, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 707–715, New York, 2002, Morgan Kaufmann Publishers.
- [120] R. Burke, S. Gustafson, and G. Kendall, A survey and analysis of diversity measures in genetic programming, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 716–723, New York, 2002, Morgan Kaufmann Publishers.
- [121] M. Clergue, P. Collard, M. Tomassini, and L. Vanneschi, Fitness distance correlation and problem difficulty for genetic programming, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 724–732, New York, 2002, Morgan Kaufmann Publishers.

- [122] R. Crawford-Marks and L. Spector, Size control via size fair genetic operators in the PushGP genetic programming system, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 733–739, New York, 2002, Morgan Kaufmann Publishers.
- [123] R. Groß, K. Albrecht, W. Kantschik, and W. Banzhaf, Evolving chess playing programs, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 740–747, New York, 2002, Morgan Kaufmann Publishers.
- [124] L. Hamel, Breeding algebraic structures—an evolutionary approach to inductive equational logic programming, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 748–755, New York, 2002, Morgan Kaufmann Publishers.
- [125] D. Howard, S. C. Roberts, and C. Ryan, Machine vision: Exploring context with genetic programming, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 756–763, New York, 2002, Morgan Kaufmann Publishers.
- [126] W. H. Hsu and S. M. Gustafson, Genetic programming and multi-agent layered learning by reinforcements, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 764–771, New York, 2002, Morgan Kaufmann Publishers.
- [127] J. Hu, E. D. Goodman, K. Seo, and M. Pei, Adaptive hierarchical fair competition (AHFC) model for parallel evolutionary algorithms, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 772–779, New York, 2002, Morgan Kaufmann Publishers.
- [128] J. Hu *et al.*, Structure fitness sharing (SFS) for evolutionary design by genetic programming, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 780–787, New York, 2002, Morgan Kaufmann Publishers.
- [129] H. Iba and E. Sakamoto, Inference of differential equation models by genetic programming, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 788–795, New York, 2002, Morgan Kaufmann Publishers.
- [130] K. Imamura, R. B. Heckendorn, T. Soule, and J. A. Foster, Abstention reduces errors—decision abstaining N-version genetic programming, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 796–803, New York, 2002, Morgan Kaufmann Publishers.
- [131] J. Kubica and E. Rieffel, Collaborating with A genetic programming system to generate modular robotic code, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 804–811, New York, 2002, Morgan Kaufmann Publishers.
- [132] W. B. Langdon, Convergence rates for the distribution of program outputs, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 812–819, New York, 2002, Morgan Kaufmann Publishers.
- [133] S. Luke and L. Panait, Is the perfect the enemy of the good?, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 820–828, New York, 2002, Morgan Kaufmann Publishers.
- [134] S. Luke and L. Panait, Lexicographic parsimony pressure, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 829–836, New York, 2002, Morgan Kaufmann Publishers.

- [135] P. Martin, An analysis of random number generators for A hardware implementation of genetic programming using FPGAs and Handel-C, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 837–844, New York, 2002, Morgan Kaufmann Publishers.
- [136] P. Martin and R. Poli, Crossover operators for A hardware implementation of GP using FPGAs and Handel-C, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 845–852, New York, 2002, Morgan Kaufmann Publishers.
- [137] N. F. McPhee and R. Poli, Using schema theory to explore interactions of multiple operators, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 853–860, New York, 2002, Morgan Kaufmann Publishers.
- [138] J. Parent and A. Nowe, Evolving compression preprocessors with genetic programming, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 861–867, New York, 2002, Morgan Kaufmann Publishers.
- [139] R. Poli, C. R. Stephens, A. H. Wright, and J. E. Rowe, On the search biases of homologous crossover in linear genetic programming and variable-length genetic algorithms, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 868–876, New York, 2002, Morgan Kaufmann Publishers.
- [140] M. J. Streeter, M. A. Keane, and J. R. Koza, Iterative refinement of computational circuits using genetic programming, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 877–884, New York, 2002, Morgan Kaufmann Publishers.
- [141] J. Cooper and C. Hinde, Comparison of evolving against peers and fixed opponents using corewars, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 887, New York, 2002, Morgan Kaufmann Publishers.
- [142] C. Gagné and M. Parizeau, Open BEAGLE: A new C++ evolutionary computation framework, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 888, New York, 2002, Morgan Kaufmann Publishers.
- [143] M. Giacobini, M. Tomassini, and L. Vanneschi, How statistics can help in limiting the number of fitness cases in genetic programming, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 889, New York, 2002, Morgan Kaufmann Publishers.
- [144] H. Katagiri, K. Hirasawa, J. Hu, and J. Murata, A new model to realize variable size genetic network programming, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 890, New York, 2002, Morgan Kaufmann Publishers.
- [145] E. E. Korkmaz and G. Üçoluk, Controlling the genetic programming search, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 891, New York, 2002, Morgan Kaufmann Publishers.
- [146] C. Oliver-Morales and K. R. Vázquez, MB GP in modelling and prediction, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 892, New York, 2002, Morgan Kaufmann Publishers.
- [147] R. Olson and B. Wilcox, Self-improvement for the ADATE automatic programming system, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 893, New York, 2002, Morgan Kaufmann Publishers.
- [148] M. S. Withall, C. J. Hinde, and R. G. Stone, Evolving readable Perl, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 894, New York, 2002, Morgan Kaufmann Publishers.

- [149] L. Bull, Lookahead and latent learning in ZCS, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 897–904, New York, 2002, Morgan Kaufmann Publishers.
- [150] L. Bull and T. O’Hara, Accuracy-based neuro and neuro-fuzzy classifier systems, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 905–911, New York, 2002, Morgan Kaufmann Publishers.
- [151] M. Danek and R. E. Smith, XCS applied to mapping FPGA architectures, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 912–919, New York, 2002, Morgan Kaufmann Publishers.
- [152] C. Fu and L. Davis, A modified classifier system compaction algorithm, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 920–925, New York, 2002, Morgan Kaufmann Publishers.
- [153] S. Landau, S. Picault, O. Sigaud, and P. Gérard, A comparison between ATNoSFERES and XCSM, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 926–933, New York, 2002, Morgan Kaufmann Publishers.
- [154] X. Llorà and J. M. Garrell, Coevolving different knowledge representations with fine-grained parallel learning classifier systems, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 934–941, New York, 2002, Morgan Kaufmann Publishers.
- [155] P. Ross, S. Schulenburg, J. Marín-Blázquez, and E. Hart, Hyper-heuristics: Learning to combine simple heuristics in bin-packing problems, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 942–948, New York, 2002, Morgan Kaufmann Publishers.
- [156] L. Bull, D. Wyatt, and I. Parmee, Towards the use of XCS in interactive evolutionary design, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 951, New York, 2002, Morgan Kaufmann Publishers.
- [157] G. Kókai, Z. Tóth, and S. Zvada, An experimental comparison of genetic and classical concept learning methods, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 952, New York, 2002, Morgan Kaufmann Publishers.
- [158] F. Neri, Cooperative concept learning by means of A distributed GA, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 953, New York, 2002, Morgan Kaufmann Publishers.
- [159] M. Ebner, H.-G. Breunig, and J. Albert, On the use of negative selection in an artificial immune system, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 957–964, New York, 2002, Morgan Kaufmann Publishers.
- [160] A. Kosorukoff and D. E. Goldberg, Evolutionary computation as A form of organization, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 965–972, New York, 2002, Morgan Kaufmann Publishers.
- [161] H. Masum, S. Christensen, and F. Oppacher, The turing ratio: Metrics for open-ended tasks, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 973–980, New York, 2002, Morgan Kaufmann Publishers.
- [162] X. Wang, L. Davis, and C. Fu, Genetic algorithms and fine-grained topologies for optimization, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 981–988, New York, 2002, Morgan Kaufmann Publishers.
- [163] M. G. Arenas *et al.*, JEO: Java evolving objects, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 991, New York, 2002, Morgan Kaufmann Publishers.

- [164] L. Barone, L. While, and P. Hingston, Designing crushers with A multi-objective evolutionary algorithm, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 995–1002, New York, 2002, Morgan Kaufmann Publishers.
- [165] B. Bhanu and Y. Lin, Learning composite operators for object detection, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1003–1010, New York, 2002, Morgan Kaufmann Publishers.
- [166] A. Brabazon, M. O'Neill, R. Matthews, and C. Ryan, Grammatical evolution and corporate failure prediction, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1011–1018, New York, 2002, Morgan Kaufmann Publishers.
- [167] E. Cantú-Paz and C. Kamath, Evolving neural networks for the classification of galaxies, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1019–1026, New York, 2002, Morgan Kaufmann Publishers.
- [168] R. Carr *et al.*, Alignment of protein structures with A memetic evolutionary algorithm, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1027–1034, New York, 2002, Morgan Kaufmann Publishers.
- [169] D. R. Carvalho and A. A. Freitas, A genetic algorithm with sequential niching for discovering small-disjunct rules, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1035–1042, New York, 2002, Morgan Kaufmann Publishers.
- [170] F. A. Castillo, K. A. Marshall, J. L. Green, and A. K. Kordon, Symbolic regression in design of experiments: A case study with linearizing transformations, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1043–1047, New York, 2002, Morgan Kaufmann Publishers.
- [171] P. Chen, Z. Fu, P. Chen, and A. Lim, Using genetic algorithms to solve the yard allocation problem, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1049–1056, New York, 2002, Morgan Kaufmann Publishers.
- [172] C. B. Congdon, Gaphyl: An evolutionary algorithms approach for the study of natural evolution, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1057–1064, New York, 2002, Morgan Kaufmann Publishers.
- [173] A. D. Pietro, L. While, and L. Barone, Learning in RoboCup keepaway using evolutionary algorithms, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1065–1072, New York, 2002, Morgan Kaufmann Publishers.
- [174] Z. Fan, K. Seo, R. C. Rosenberg, J. Hu, and E. D. Goodman, Exploring multiple design topologies using genetic programming and bond graphs, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1073–1080, New York, 2002, Morgan Kaufmann Publishers.
- [175] F. A. González and D. Dasgupta, An imunogenetic technique to detect anomalies in network traffic, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1081–1088, New York, 2002, Morgan Kaufmann Publishers.
- [176] K. Hamza, H. Mahmoud, and K. Saitou, Design optimization of N-shaped roof trusses, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1089–1096, New York, 2002, Morgan Kaufmann Publishers.
- [177] D. Howard and S. C. Roberts, Application of genetic programming to motorway traffic modelling, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1097–1104, New York, 2002, Morgan Kaufmann Publishers.

- [178] Y. Jin and B. Sendhoff, Fitness approximation in evolutionary computation—a survey, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1105–1112, New York, 2002, Morgan Kaufmann Publishers.
- [179] L.-S. Kang, Z. Kang, Y. Li, and H. D. Garis, A two level evolutionary modeling system for financial data, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1113–1118, New York, 2002, Morgan Kaufmann Publishers.
- [180] Y.-K. Kwon, S.-D. Hong, and B.-R. Moon, A genetic hybrid for critical heat flux function approximation, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1119–1125, New York, 2002, Morgan Kaufmann Publishers.
- [181] S.-Y. Lee, S.-S. Choi, and B.-R. Moon, Search improvement by genetic algorithms with A semiotic network, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1126–1132, New York, 2002, Morgan Kaufmann Publishers.
- [182] D. S. Linden, Antenna design using genetic algorithm, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1133–1140, New York, 2002, Morgan Kaufmann Publishers.
- [183] D. Montana, T. Hussain, and T. Saxena, Adaptive reconfiguration of data networks using genetic algorithms, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1141–1149, New York, 2002, Morgan Kaufmann Publishers.
- [184] J. H. Moore, L. W. Hahn, M. D. Ritchie, T. A. Thornton, and B. C. White, Application of genetic algorithms to the discovery of complex models for simulation studies in human genetics, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1150–1155, New York, 2002, Morgan Kaufmann Publishers.
- [185] B. Naujoks, W. Haase, J. Ziegenhirt, and T. Bäck, Multi objective airfoil design using single parent populations, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1156–1163, New York, 2002, Morgan Kaufmann Publishers.
- [186] V. Oduguwa and R. Roy, Multi-objective optimisation of rolling rod product design using meta-modelling approach, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1164–1171, New York, 2002, Morgan Kaufmann Publishers.
- [187] E.-J. Park, Y.-H. Kim, and B.-R. Moon, Genetic search for fixed channel assignment problem with limited bandwidth, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1172–1179, New York, 2002, Morgan Kaufmann Publishers.
- [188] K. Rasheed, S. Vattam, and X. Ni, Comparison of methods for using reduced models to speed up design optimization, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1180–1187, New York, 2002, Morgan Kaufmann Publishers.
- [189] W. Romão, A. A. Freitas, and R. C. S. Pacheco, A genetic algorithm for discovering interesting fuzzy prediction rules: Applications to science and technology data, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1188–1195, New York, 2002, Morgan Kaufmann Publishers.
- [190] B. J. Ross, A. G. Gualtieri, F. Fueten, and P. Budkewitsch, Hyperspectral image analysis using genetic programming, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1196–1203, New York, 2002, Morgan Kaufmann Publishers.

- [191] Y. Sato, Voice conversion using interactive evolution of prosodic control, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1204–1211, New York, 2002, Morgan Kaufmann Publishers.
- [192] J. D. Schaffer, L. Agnihotri, N. Dimitrova, T. McGee, and S. Jeannin, Improving digital video commercial detectors with genetic algorithms, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1212–1218, New York, 2002, Morgan Kaufmann Publishers.
- [193] I. T. Tanev, T. Uozumi, and Y. Morotome, An application service provider approach for hybrid evolutionary algorithm-based real-world flexible job shop scheduling problem, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1219–1226, New York, 2002, Morgan Kaufmann Publishers.
- [194] M. S. Voss and X. Feng, A new methodology for emergent system identification using particle swarm optimization (PSO) and the group method data handling (GMDH), in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1227–1232, New York, 2002, Morgan Kaufmann Publishers.
- [195] J. Wegener, K. Buhr, and H. Pohlheim, Automatic test data generation for structural testing of embedded software systems by evolutionary testing, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1233–1240, New York, 2002, Morgan Kaufmann Publishers.
- [196] A. Younes, H. Ghenniwa, and S. Areibi, An adaptive genetic algorithm for multi objective flexible manufacturing systems, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1241–1248, New York, 2002, Morgan Kaufmann Publishers.
- [197] J. Zhang, X. Yuan, and B. P. Buckles, A fast evolution strategies based approach to image registration, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1249–1256, New York, 2002, Morgan Kaufmann Publishers.
- [198] S.-S. Choi and B.-R. Moon, Optimized interest metric of rules and one-to-one marketing using connection networks, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 1259, New York, 2002, Morgan Kaufmann Publishers.
- [199] H. W. Chong and S. Kwong, A genetic algorithm for joint optimization of spare capacity and delay in self-healing network, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 1260, New York, 2002, Morgan Kaufmann Publishers.
- [200] L. Elliott *et al.*, A real coded genetic algorithm for the optimisation of reaction rate parameters for chemical kinetic modelling in A perfectly stirred reactor, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 1261, New York, 2002, Morgan Kaufmann Publishers.
- [201] S. L. Forman, Congressional redistricting using A TSP-based genetic algorithm, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 1262, New York, 2002, Morgan Kaufmann Publishers.
- [202] H. F. G. García, A. G. Vega, A. H. Aguirre, and C. C. Coello, Efficient affine 2D-image registration using evolutionary strategies, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 1263, New York, 2002, Morgan Kaufmann Publishers.
- [203] M. C. Goldberg, E. F. Gouvêa, and F. D. d. M. Neto, Piston pump mobile unity tour problem: An evolutionary view, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 1264, New York, 2002, Morgan Kaufmann Publishers.

- [204] A. Gómez, D. d. l. Fuente, J. Parreño, and J. Puente, Using genetic algorithms to optimize guillotine cutting operations, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 1265, New York, 2002, Morgan Kaufmann Publishers.
- [205] A. C. H. Ho and S. Kwong, Optimization of CDMA based wireless system, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 1266, New York, 2002, Morgan Kaufmann Publishers.
- [206] Z. Ji and D. Dasgupta, Modeling convection coefficients with genetic algorithms, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 1267, New York, 2002, Morgan Kaufmann Publishers.
- [207] O. Larsen, A. A. Freitas, and J. C. Nievola, Constructing X-of-n attributes with A genetic algorithm, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 1268, New York, 2002, Morgan Kaufmann Publishers.
- [208] S. Matsui, I. Watanabe, and K. ichi Tokoro, An efficient genetic algorithm for fixed channel assignment problem with limited bandwidth constraint, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 1269, New York, 2002, Morgan Kaufmann Publishers.
- [209] F. E. B. Otero, M. M. S. Silvia, and A. A. Freitas, Genetic programming for attribute construction in data mining, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 1270, New York, 2002, Morgan Kaufmann Publishers.
- [210] S. Ujjin and P. J. Bentley, Evolving good recommendations, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 1271, New York, 2002, Morgan Kaufmann Publishers.
- [211] E. E. Vallejo and F. Ramos, Evolving finite automata with two-dimensional output for DNA recognition and visualization, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 1272, New York, 2002, Morgan Kaufmann Publishers.
- [212] A. Vogel, M. Fischer, and T. Teich, Real-world shop floor scheduling by ant colony optimization, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 1273, New York, 2002, Morgan Kaufmann Publishers.
- [213] L. Wu *et al.*, A comparison of genetic algorithm methods in aerial spray deposition management, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 1274, New York, 2002, Morgan Kaufmann Publishers.
- [214] X. Yu, A. Fin, F. Fummi, and E. M. Rudnick, Functional test generation for digital integrated circuits using A genetic algorithm, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 1275, New York, 2002, Morgan Kaufmann Publishers.
- [215] J. B. Zydallis, T. A. Sriver, and G. B. Lamont, Multiobjective evolutionary algorithm approach for solving integer based optimization problems, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 1276, New York, 2002, Morgan Kaufmann Publishers.
- [216] P. Augustsson, K. Wolff, and P. Nordin, Creation of A learning, flying robot by means of evolution, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1279–1285, New York, 2002, Morgan Kaufmann Publishers.

- [217] G. B. Parker, Learning area coverage using the co-evolution of model parameters, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1286–1294, New York, 2002, Morgan Kaufmann Publishers.
- [218] K. Hedman *et al.*, Sensing and direction in locomotion learning with A random morphology robot, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 1297, New York, 2002, Morgan Kaufmann Publishers.
- [219] J. Polvichai and P. Khosla, Applying dynamic networks to improve learning performances of an evolutionary behavior programming system for mobile robots in dynamic environments, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 1298, New York, 2002, Morgan Kaufmann Publishers.
- [220] H. Ishibuchi, T. Yoshida, and T. Murata, Balance between genetic search and local search in hybrid evolutionary multi-criterion optimization algorithms, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1301–1308, New York, 2002, Morgan Kaufmann Publishers.
- [221] S. Jung and B.-R. Moon, A hybrid genetic algorithm for the vehicle routing problem with time windows, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1309–1316, New York, 2002, Morgan Kaufmann Publishers.
- [222] M. Reimann, M. Stummer, and K. Doerner, A savings based ant system for the vehicle routing problem, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1317–1326, New York, 2002, Morgan Kaufmann Publishers.
- [223] A. Baresel, H. Sthamer, and M. Schmidt, Fitness function design to improve evolutionary structural testing, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1329–1336, New York, 2002, Morgan Kaufmann Publishers.
- [224] L. Bottaci, Instrumenting programs with flag variables for test data search by genetic algorithms, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1337–1342, New York, 2002, Morgan Kaufmann Publishers.
- [225] M. C. F. P. Emer and S. R. Vergilio, GPTesT: A testing tool based on genetic programming, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1343–1350, New York, 2002, Morgan Kaufmann Publishers.
- [226] M. Harman, R. Hierons, and M. Proctor, A new representation and crossover operator for search-based optimization of software modularization, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1351–1358, New York, 2002, Morgan Kaufmann Publishers.
- [227] M. Harman, L. Hu, R. Hierons, A. Baresel, and H. Sthamer, Improving evolutionary testing by flag removal, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1359–1366, New York, 2002, Morgan Kaufmann Publishers.
- [228] C. Kirsopp, M. Shepperd, and J. Hart, Search heuristics, case-based reasoning and software project effort prediction, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1367–1374, New York, 2002, Morgan Kaufmann Publishers.
- [229] B. S. Mitchell and S. Mancoridis, Using heuristic search techniques to extract design abstractions from source code, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1375–1382, New York, 2002, Morgan Kaufmann Publishers.

- [230] T. Van Belle and D. H. Ackley, Code factoring and the evolution of evolvability, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, pp. 1383–1390, New York, 2002, Morgan Kaufmann Publishers.
- [231] H.-G. Groß and N. Mayer, Evolutionary testing in component-based real-time system construction, in *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. B. Langdon *et al.*, p. 1393, New York, 2002, Morgan Kaufmann Publishers.