

Список литературы

- [1] LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, New York, 2002, Morgan Kaufmann Publishers.
- [2] BALTHROP, J., ESPONDA, F., FORREST, S., and GLICKMAN, M., Coverage and generalization in an artificial immune system, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 3–10, New York, 2002, Morgan Kaufmann Publishers.
- [3] BIRATTARI, M., STÜTZLE, T., PAQUETE, L., and VARRENTRAPP, K., A racing algorithm for configuring metaheuristics, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 11–18, New York, 2002, Morgan Kaufmann Publishers.
- [4] BLACKWELL, T. M. and BENTLEY, P. J., Dynamic search with charged swarms, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 19–26, New York, 2002, Morgan Kaufmann Publishers.
- [5] BLUM, C., Ant colony optimization for the edge-weighted k -cardinality tree problem, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 27–34, New York, 2002, Morgan Kaufmann Publishers.
- [6] BLUM, C., SAMPELS, M., and ZLOCHIN, M., On A particularity in model-based search, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 35–42, New York, 2002, Morgan Kaufmann Publishers.
- [7] BUI, T. N. and STRITE, L. C., An ant system algorithm for graph bisection, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 43–51, New York, 2002, Morgan Kaufmann Publishers.
- [8] BULLINARIA, J. A., The evolution of variable learning rates, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 52–59, New York, 2002, Morgan Kaufmann Publishers.
- [9] CONRADIE, A., MIIKKULAINEN, R., and ALDRICH, C., Adaptive control utilising neural swarming, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 60–67, New York, 2002, Morgan Kaufmann Publishers.
- [10] HODGSON, R. J. W., Partical swarm optimization applied to the atomic cluster optimization problem, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 68–73, New York, 2002, Morgan Kaufmann Publishers.
- [11] KEBER, C. and SCHUSTER, M. G., Option valuation with generalized ant programming, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 74–81, New York, 2002, Morgan Kaufmann Publishers.
- [12] LEAHY, N. P., Effects of agent representation on the behavior of A non-reciprocal cooperation game, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 82–87, New York, 2002, Morgan Kaufmann Publishers.

- [13] LIANG, S., ZINCIR-HEYWOOD, A. N., and HEYWOOD, M. I., Intelligent packets for dynamic network routing using distributed genetic algorithm, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 88–96, New York, 2002, Morgan Kaufmann Publishers.
- [14] MATHIAS, K. E. and BYASSE, J. S., Agent support of genetic search in an immunological model of sparse distributed memory, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 97–104, New York, 2002, Morgan Kaufmann Publishers.
- [15] MERKLE, D. and MIDDENDORF, M., Studies on the dynamics of ant colony optimization algorithms, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 105–112, New York, 2002, Morgan Kaufmann Publishers.
- [16] STANLEY, K. O. and MIIKKULAINEN, R., Continual coevolution through complexification, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 113–120, New York, 2002, Morgan Kaufmann Publishers.
- [17] TAKADAMA, K., SUEMATSU, Y. L., NAWA, N. E., and SHIMOHARA, K., Cross-validation in multiagent-based simulation: Analyzing evolutionary bargaining agents, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 121–128, New York, 2002, Morgan Kaufmann Publishers.
- [18] ANDO, S. and IBA, H., Ant algorithm for construction of evolutionary tree, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 131, New York, 2002, Morgan Kaufmann Publishers.
- [19] BONGARD, J. C. and PFEIFER, R., Behavioural selection pressure generates hierarchical genetic regulatory networks, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 132, New York, 2002, Morgan Kaufmann Publishers.
- [20] BORYCZKA, M. and CZECH, Z. J., Solving approximation problems by ant colony programming, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 133, New York, 2002, Morgan Kaufmann Publishers.
- [21] CAPCARRERE, M. S., Evolution of asynchronous cellular automata: Finding the good compromise, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 134, New York, 2002, Morgan Kaufmann Publishers.
- [22] DAS, S., GOSAVI, S. V., HSU, W. H., and VAZE, S. A., An ant colony approach for the Steiner tree problem, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 135, New York, 2002, Morgan Kaufmann Publishers.
- [23] LENAERTS, T., DEFAWEUX, A., Van Remortel, P., and MANDERICK, B., An individual-based approach to multi-level selection, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 136, New York, 2002, Morgan Kaufmann Publishers.
- [24] PELLETIER, O. and WEIMERSKIRCH, A., Algorithmic self-assembly of DNA tiles and its application to cryptanalysis, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 139–146, New York, 2002, Morgan Kaufmann Publishers.

- [25] YURKE, B. and SIMMEL, F. C., A DNA-based three-state device, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 147–152, New York, 2002, Morgan Kaufmann Publishers.
- [26] BEAULIEU, J., GAGNÉ, C., and PARIZEAU, M., Lens system design and re-engineering with evolutionary algorithms, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 155–162, New York, 2002, Morgan Kaufmann Publishers.
- [27] GALLAGHER, J. C. and VIGRAHAM, S., A modified compact genetic algorithm for the intrinsic evolution of continuous time recurrent neural networks, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 163–170, New York, 2002, Morgan Kaufmann Publishers.
- [28] HARTMANN, M., ESKELUND, F., HADDOW, P. C., and MILLER, J. F., Evolving fault tolerance on an unreliable technology platform, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 171–177, New York, 2002, Morgan Kaufmann Publishers.
- [29] TANGEN, U., An evolvable micro-controller or what’s new about mutations?, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 178–186, New York, 2002, Morgan Kaufmann Publishers.
- [30] NIPARNAN, N. and CHONGSTITVATANA, P., An improved genetic algorithm for the inference of finite state machine, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 189, New York, 2002, Morgan Kaufmann Publishers.
- [31] BEACHKOFISKI, B. K. and LAMONT, G. B., Evolutionary programming based stratified design space sampling, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 193–200, New York, 2002, Morgan Kaufmann Publishers.
- [32] COELLO, C. A. C. and BECERRA, R. L., Adding knowledge and efficient data structures to evolutionary programming: A cultural algorithm for constrained optimization, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 201–209, New York, 2002, Morgan Kaufmann Publishers.
- [33] SEMENOV, M. A., Convergence velocity of evolutionary algorithm with self-adaptation, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 210–213, New York, 2002, Morgan Kaufmann Publishers.
- [34] WONG, M. L., LEE, S. Y., and LEUNG, K. S., A hybrid data mining approach to discover Bayesian networks using evolutionary programming, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 214–222, New York, 2002, Morgan Kaufmann Publishers.
- [35] LIU, Y. and YAO, X., Search step size control in fast evolutionary programming, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 225, New York, 2002, Morgan Kaufmann Publishers.

- [36] DeLaurentis, J., FERGUSON, L., and HART, W. E., On the convergence properties of A simple self-adaptive evolutionary algorithm, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 229–237, New York, 2002, Morgan Kaufmann Publishers.
- [37] JANSEN, T. and De Jong, K., An analysis of the role of offspring population size in EAs, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 238–246, New York, 2002, Morgan Kaufmann Publishers.
- [38] OKABE, T., JIN, Y., and SENDHOFF, B., On the dynamics of evolutionary multi-objective optimization, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 247–256, New York, 2002, Morgan Kaufmann Publishers.
- [39] JOHN, D. J., Co-evolution with the Bierwirth-Mattfeld hybrid scheduler, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 259, New York, 2002, Morgan Kaufmann Publishers.
- [40] AICKELIN, U. and BULL, L., Partnering strategies for fitness evaluation in A pyramidal evolutionary algorithm, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 263–270, New York, 2002, Morgan Kaufmann Publishers.
- [41] ALBERT, L. A. and GOLDBERG, D. E., Efficient discretization scheduling in multiple dimensions, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 271–278, New York, 2002, Morgan Kaufmann Publishers.
- [42] ALDEN, M., van Kesteren, A., and MIIKKULAINEN, R., Eugenic evolution utilizing A domain model, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 279–286, New York, 2002, Morgan Kaufmann Publishers.
- [43] BARBOSA, H. J. C. and LEMONGE, A. C. C., An adaptive penalty scheme in genetic algorithms for constrained optimization problems, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 287–294, New York, 2002, Morgan Kaufmann Publishers.
- [44] BYASSE, J. S. and MATHIAS, K. E., Expediting genetic search with dynamic memory, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 295–302, New York, 2002, Morgan Kaufmann Publishers.
- [45] CANTÚ-PAZ, E., Feature subset selection by estimation of distribution algorithms, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 303–310, New York, 2002, Morgan Kaufmann Publishers.
- [46] CANTÚ-PAZ, E., On random numbers and the performance of genetic algorithms, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 311–318, New York, 2002, Morgan Kaufmann Publishers.
- [47] CHEN, J.-H., GOLDBERG, D. E., HO, S.-Y., and SASTRY, K., Fitness inheritance in multi-objective optimization, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 319–326, New York, 2002, Morgan Kaufmann Publishers.

- [48] CHOI, S.-S. and MOON, B.-R., Isomorphism, normalization, and A genetic algorithm for sorting network optimization, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 327–334, New York, 2002, Morgan Kaufmann Publishers.
- [49] CHOI, S.-S. and MOON, B.-R., More effective genetic search for the sorting network problem, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 335–342, New York, 2002, Morgan Kaufmann Publishers.
- [50] DIVINA, F. and MARCHIORI, E., Evolutionary concept learning, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 343–350, New York, 2002, Morgan Kaufmann Publishers.
- [51] GALINDO-LEGARIA, C. and WAAS, F., The effect of cost distributions on evolutionary optimization algorithms, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 351–358, New York, 2002, Morgan Kaufmann Publishers.
- [52] GARRETT, S. M. and WALKER, J. H., Combining evolutionary and non-evolutionary methods in tracking dynamic global optima, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 359–366, New York, 2002, Morgan Kaufmann Publishers.
- [53] GREENE, W. A., A genetic algorithm with self-distancing bits but no overt linkage, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 367–374, New York, 2002, Morgan Kaufmann Publishers.
- [54] HOHMANN, S. G., SCHEMMEL, J., SCHÜRMANN, F., and MEIER, K., Exploring the parameter space of A genetic algorithm for training an analog neural network, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 375–382, New York, 2002, Morgan Kaufmann Publishers.
- [55] HSU, W. H., GUO, H., PERRY, B. B., and STILSON, J. A., A permutation genetic algorithm for variable ordering in learning Bayesian networks from data, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 383–390, New York, 2002, Morgan Kaufmann Publishers.
- [56] HÜSKEN, M. and IGEL, C., Balancing learning and evolution, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 391–398, New York, 2002, Morgan Kaufmann Publishers.
- [57] ISHIBUCHI, H. and YAMAMOTO, T., Fuzzy rule selection by data mining criteria and genetic algorithms, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 399–406, New York, 2002, Morgan Kaufmann Publishers.
- [58] KIM, J.-H. and MOON, B.-R., Neuron reordering for better neuro-genetic hybrids, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 407–414, New York, 2002, Morgan Kaufmann Publishers.
- [59] KIMBROUGH, S. O., LU, M., WOOD, D. H., and WU, D. J., Exploring A two-market genetic algorithm, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 415–422, New York, 2002, Morgan Kaufmann Publishers.

- [60] KOCH, T. E. and ZELL, A., MOCS: Multi-objective clustering selection evolutionary algorithm, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 423–430, New York, 2002, Morgan Kaufmann Publishers.
- [61] KUMAR, S. V. and RANJITHAN, S. R., Evaluation of the constraint method-based evolutionary algorithm (CMEA) for A three-objective problem, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 431–438, New York, 2002, Morgan Kaufmann Publishers.
- [62] LAUMANNS, M., THIELE, L., ZITZLER, E., and DEB, K., Archiving with guaranteed convergence and diversity in multi-objective optimization, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 439–447, New York, 2002, Morgan Kaufmann Publishers.
- [63] LIU, Y. and YAO, X., Maintaining population diversity by minimizing mutual information, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 448–455, New York, 2002, Morgan Kaufmann Publishers.
- [64] MAO, J., HIRASAWA, K., HU, J., and MURATA, J., Increasing robustness of genetic algorithm, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 456–462, New York, 2002, Morgan Kaufmann Publishers.
- [65] MENON, A., The point of point crossover: Shuffling to randomness, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 463–471, New York, 2002, Morgan Kaufmann Publishers.
- [66] MERZ, P., A comparison of memetic recombination operators for the traveling salesman problem, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 472–479, New York, 2002, Morgan Kaufmann Publishers.
- [67] MEYERSENBURG, M. M., HOELTING, D., McElvain, D., and FOSTER, J. A., How random generator quality impacts GA performance, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 480–487, New York, 2002, Morgan Kaufmann Publishers.
- [68] NICOLAU, M. and RYAN, C., LINKGAUGE: Tackling hard deceptive problems with A new linkage learning genetic algorithm, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 488–494, New York, 2002, Morgan Kaufmann Publishers.
- [69] OCHOA, G., Setting the mutation rate: Scope and limitations of the $1/L$ heuristic, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 495–502, New York, 2002, Morgan Kaufmann Publishers.
- [70] PANAIT, L. and LUKE, S., A comparison of two competitive fitness functions, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 503–511, New York, 2002, Morgan Kaufmann Publishers.
- [71] PELIKAN, M., GOLDBERG, D. E., and TSUTSUI, S., Combining the strengths of Bayesian optimization algorithm and adaptive evolution strategies, in LANGDON, W. B., CANTÚ-PAZ,

- E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 512–519, New York, 2002, Morgan Kaufmann Publishers.
- [72] PURSHOUSE, R. C. and FLEMING, P. J., Why use elitism and sharing in A multi-objective genetic algorithm?, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 520–527, New York, 2002, Morgan Kaufmann Publishers.
 - [73] SASTRY, K. and GOLDBERG, D. E., Genetic algorithms, efficiency enhancement, and deciding well with differing fitness variances, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 528–535, New York, 2002, Morgan Kaufmann Publishers.
 - [74] SASTRY, K. and GOLDBERG, D. E., Genetic algorithms, efficiency enhancement, and deciding well with differing fitness bias values, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 536–543, New York, 2002, Morgan Kaufmann Publishers.
 - [75] SEO, D.-I. and MOON, B.-R., Voronoi quantized crossover for traveling salesman problem, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 544–552, New York, 2002, Morgan Kaufmann Publishers.
 - [76] SOMEYA, H. and YAMAMURA, M., Robust evolutionary algorithms with toroidal search space conversion for function optimization, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 553–560, New York, 2002, Morgan Kaufmann Publishers.
 - [77] SPIROV, A. V. and KAZANSKY, A. B., Jumping genes-mutators can rise efficacy of evolutionary search, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 561–568, New York, 2002, Morgan Kaufmann Publishers.
 - [78] STANLEY, K. O. and MIIKKULAINEN, R., Efficient reinforcement learning through evolving neural network topologies, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 569–577, New York, 2002, Morgan Kaufmann Publishers.
 - [79] STEPHENS, C. R., POLI, R., WRIGHT, A. H., and ROWE, J. E., Exact results from A coarse grained formulation of the dynamics of variable-length genetic algorithms, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 578–585, New York, 2002, Morgan Kaufmann Publishers.
 - [80] STONE, C. and SMITH, J., Strategy parameter variety in self-adaptation of mutation rates, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 586–593, New York, 2002, Morgan Kaufmann Publishers.
 - [81] STRINGER, H. and WU, A. S., A simple method for detecting domino convergence and identifying salient genes within A genetic algorithm, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 594–601, New York, 2002, Morgan Kaufmann Publishers.
 - [82] TIWARI, A. and ROY, R., Variable dependence interaction and multi-objective optimisation, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 602–609, New York, 2002, Morgan Kaufmann Publishers.

- [83] TSAI, H.-K., YANG, J.-M., and KAO, C.-Y., Applying genetic algorithms to finding the optimal gene order in displaying the microarray data, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 610–617, New York, 2002, Morgan Kaufmann Publishers.
- [84] TULAI, A. F. and OPPACHER, F., Combining competitive and cooperative coevolution for training cascade neural networks, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 618–625, New York, 2002, Morgan Kaufmann Publishers.
- [85] Van Hoyweghen, C., GOLDBERG, D. E., and NAUDTS, B., From twomax to the ising model: Easy and hard symmetrical problems, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 626–633, New York, 2002, Morgan Kaufmann Publishers.
- [86] VRAJITORU, D., Simulating gender separation with genetic algorithms, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 634–641, New York, 2002, Morgan Kaufmann Publishers.
- [87] WRIGHT, A. H., ROWE, J. E., POLI, R., and STEPHENS, C. R., A fixed point analysis of A gene pool GA with mutation, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 642–649, New York, 2002, Morgan Kaufmann Publishers.
- [88] YANG, S., Adaptive non-uniform crossover based on statistics for genetic algorithms, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 650–657, New York, 2002, Morgan Kaufmann Publishers.
- [89] ZHU, Z.-Y. and LEUNG, K.-S., An enhanced annealing genetic algorithm for multi-objective optimization problems, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 658–665, New York, 2002, Morgan Kaufmann Publishers.
- [90] ZITZLER, E., LAUMANN, M., THIELE, L., FONSECA, C. M., and DA FONSECA, V. G., Why quality assessment of multiobjective optimizers is difficult, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 666–674, New York, 2002, Morgan Kaufmann Publishers.
- [91] BACARDIT, J. and GARRELL, J. M., Evolution of adaptive discretization intervals for A rule-based genetic learning system, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 677, New York, 2002, Morgan Kaufmann Publishers.
- [92] DEVOGELAERE, D. and RIJCKAERT, M., Influences of clustering modifications on the performance of the genetic algorithm driven clustering algorithm, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 678, New York, 2002, Morgan Kaufmann Publishers.
- [93] ETANER-UYAR, A. S. and HARMANCI, A. E., Preserving diversity in changing environments through diploidy with adaptive dominance, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 679, New York, 2002, Morgan Kaufmann Publishers.
- [94] HSU, W. H., SCHMIDT, C. P., and LOUIS, J. A., Genetic algorithm wrappers for feature subset selection in supervised inductive learning, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 680, New York, 2002, Morgan Kaufmann Publishers.

- [95] HUANG, C.-G., A study of fitness proportional mate selection schemes in genetic algorithms, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 681, New York, 2002, Morgan Kaufmann Publishers.
- [96] HUANG, C.-F., A Markov chain analysis of fitness proportional mate selection schemes in genetic algorithm, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 682, New York, 2002, Morgan Kaufmann Publishers.
- [97] JIN, Y. and SENDHOFF, B., Incorporation of fuzzy preferences into evolutionary multiobjective optimization, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 683, New York, 2002, Morgan Kaufmann Publishers.
- [98] KHAN, N., GOLDBERG, D. E., and PELIKAN, M., Multiple-objective Bayesian optimization algorithm, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 684, New York, 2002, Morgan Kaufmann Publishers.
- [99] KIM, J.-P. and MOON, B.-R., A hybrid genetic search for circuit bipartitioning, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 685, New York, 2002, Morgan Kaufmann Publishers.
- [100] KIM, Y.-H. and MOON, B.-R., Visualization of the fitness landscape, A steady-state genetic search, and schema traces, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 686, New York, 2002, Morgan Kaufmann Publishers.
- [101] KNÖDLER, K., POLAND, J., ZELL, A., and MITTERER, A., Memetic algorithms for combinatorial optimization problems in the calibration of modern combustion engines, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 687, New York, 2002, Morgan Kaufmann Publishers.
- [102] KOSORUKOFF, A., Using incremental evaluation and adaptive choice of operators in A genetic algorithm, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 688, New York, 2002, Morgan Kaufmann Publishers.
- [103] LEE, S.-K., SEO, D.-I., and MOON, B.-R., A hybrid genetic algorithm for optimal hexagonal tortoise problem, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 689, New York, 2002, Morgan Kaufmann Publishers.
- [104] MACHADO, P., TAVARES, J., PEREIRA, F. B., and COSTA, E., Vehicle routing problem: Doing it the evolutionary way, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 690, New York, 2002, Morgan Kaufmann Publishers.
- [105] MEYEBURG, M. M., HOELTING, D., McElvaine, D., and FOSTER, J. A., A genetic algorithm-specific test of random generator quality, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 691, New York, 2002, Morgan Kaufmann Publishers.
- [106] PETTINGER, J. E. and EVERSON, R. M., Controlling genetic algorithms with reinforcement learning, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 692, New York, 2002, Morgan Kaufmann Publishers.

- [107] PRADO, O. and ZUBEN, F. J. V., An integrated system for phylogenetic inference using evolutionary algorithms, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 693, New York, 2002, Morgan Kaufmann Publishers.
- [108] ROOS, R. S., BENNETT, T., HANNON, J., and ZEHNER, E., A genetic algorithm for improved shellsort sequences, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 694, New York, 2002, Morgan Kaufmann Publishers.
- [109] ROTHLAUF, F., The influence of binary representations of integers on the performance of selectorecombinative genetic algorithms, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 695, New York, 2002, Morgan Kaufmann Publishers.
- [110] SEKAJ, I., FOLTIN, M., and GONOS, M., Genetic algorithm based adaptive control of an electromechanical MIMO system, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 696, New York, 2002, Morgan Kaufmann Publishers.
- [111] SIMÕES, A. and COSTA, E., Parametric study to enhance the genetic algorithm's performance when using transformation, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 697, New York, 2002, Morgan Kaufmann Publishers.
- [112] SIMÕES, A. and COSTA, E., Using GAs to deal with dynamic environments: A comparative study of several approaches based on promoting diversity, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 698, New York, 2002, Morgan Kaufmann Publishers.
- [113] SINGH, A., GOLDBERG, D. E., and CHEN, Y.-P., Modified linkage learning genetic algorithm for difficult non-stationary problems, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 699, New York, 2002, Morgan Kaufmann Publishers.
- [114] TYNI, T. and YLINEN, J., Bi-directional circular linked lists in fitness caching, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 700, New York, 2002, Morgan Kaufmann Publishers.
- [115] UEDA, T., KOGA, N., ONO, I., and OKAMOTO, M., Application of numerical optimization technique based on real-coded genetic algorithm to inverse problem in biochemical systems, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 701, New York, 2002, Morgan Kaufmann Publishers.
- [116] WATANABE, S., HIROYASU, T., and MIKI, M., LCGA: Local cultivation genetic algorithm for multi-objective optimization problems, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 702, New York, 2002, Morgan Kaufmann Publishers.
- [117] WU, A. S. and GARIBAY, I., The proportional genetic algorithm representation, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 703, New York, 2002, Morgan Kaufmann Publishers.
- [118] YU, T. and MILLER, J., Climbing unimodal landscapes with neutrality: A case study of the one-max problem, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 704, New York, 2002, Morgan Kaufmann Publishers.

- [119] AZAD, R. M. A., RYAN, C., BURKE, M. E., and ANSARI, A. R., A re-examination of the cart centering problem using the chorus system, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 707–715, New York, 2002, Morgan Kaufmann Publishers.
- [120] BURKE, R., GUSTAFSON, S., and KENDALL, G., A survey and analysis of diversity measures in genetic programming, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 716–723, New York, 2002, Morgan Kaufmann Publishers.
- [121] CLERGUE, M., COLLARD, P., TOMASSINI, M., and VANNESCHI, L., Fitness distance correlation and problem difficulty for genetic programming, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 724–732, New York, 2002, Morgan Kaufmann Publishers.
- [122] CRAWFORD-MARKS, R. and SPECTOR, L., Size control via size fair genetic operators in the PushGP genetic programming system, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 733–739, New York, 2002, Morgan Kaufmann Publishers.
- [123] GROSS, R., ALBRECHT, K., KANTSCHIK, W., and BANZHAF, W., Evolving chess playing programs, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 740–747, New York, 2002, Morgan Kaufmann Publishers.
- [124] HAMEL, L., Breeding algebraic structures—an evolutionary approach to inductive equational logic programming, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 748–755, New York, 2002, Morgan Kaufmann Publishers.
- [125] HOWARD, D., ROBERTS, S. C., and RYAN, C., Machine vision: Exploring context with genetic programming, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 756–763, New York, 2002, Morgan Kaufmann Publishers.
- [126] HSU, W. H. and GUSTAFSON, S. M., Genetic programming and multi-agent layered learning by reinforcements, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 764–771, New York, 2002, Morgan Kaufmann Publishers.
- [127] HU, J., GOODMAN, E. D., SEO, K., and PEI, M., Adaptive hierarchical fair competition (AHFC) model for parallel evolutionary algorithms, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 772–779, New York, 2002, Morgan Kaufmann Publishers.
- [128] HU, J., SEO, K., LI, S., FAN, Z., ROSENBERG, R. C., et al., Structure fitness sharing (SFS) for evolutionary design by genetic programming, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 780–787, New York, 2002, Morgan Kaufmann Publishers.
- [129] IBA, H. and SAKAMOTO, E., Inference of differential equation models by genetic programming, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 788–795, New York, 2002, Morgan Kaufmann Publishers.

- [130] IMAMURA, K., HECKENDORN, R. B., SOULE, T., and FOSTER, J. A., Abstention reduces errors—decision abstaining N-version genetic programming, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 796–803, New York, 2002, Morgan Kaufmann Publishers.
- [131] KUBICA, J. and RIEFFEL, E., Collaborating with A genetic programming system to generate modular robotic code, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 804–811, New York, 2002, Morgan Kaufmann Publishers.
- [132] LANGDON, W. B., Convergence rates for the distribution of program outputs, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 812–819, New York, 2002, Morgan Kaufmann Publishers.
- [133] LUKE, S. and PANAIT, L., Is the perfect the enemy of the good?, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 820–828, New York, 2002, Morgan Kaufmann Publishers.
- [134] LUKE, S. and PANAIT, L., Lexicographic parsimony pressure, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 829–836, New York, 2002, Morgan Kaufmann Publishers.
- [135] MARTIN, P., An analysis of random number generators for A hardware implementation of genetic programming using FPGAs and Handel-C, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 837–844, New York, 2002, Morgan Kaufmann Publishers.
- [136] MARTIN, P. and POLI, R., Crossover operators for A hardware implementation of GP using FPGAs and Handel-C, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 845–852, New York, 2002, Morgan Kaufmann Publishers.
- [137] McPhee, N. F. and POLI, R., Using schema theory to explore interactions of multiple operators, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 853–860, New York, 2002, Morgan Kaufmann Publishers.
- [138] PARENT, J. and NOWE, A., Evolving compression preprocessors with genetic programming, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 861–867, New York, 2002, Morgan Kaufmann Publishers.
- [139] POLI, R., STEPHENS, C. R., WRIGHT, A. H., and ROWE, J. E., On the search biases of homologous crossover in linear genetic programming and variable-length genetic algorithms, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 868–876, New York, 2002, Morgan Kaufmann Publishers.
- [140] STREETER, M. J., KEANE, M. A., and KOZA, J. R., Iterative refinement of computational circuits using genetic programming, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 877–884, New York, 2002, Morgan Kaufmann Publishers.
- [141] COOPER, J. and HINDE, C., Comparison of evolving against peers and fixed opponents using corewars, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 887, New York, 2002, Morgan Kaufmann Publishers.

- [142] GAGNÉ, C. and PARIZEAU, M., Open BEAGLE: A new C++ evolutionary computation framework, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 888, New York, 2002, Morgan Kaufmann Publishers.
- [143] GIACOBINI, M., TOMASSINI, M., and VANNESCHI, L., How statistics can help in limiting the number of fitness cases in genetic programming, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 889, New York, 2002, Morgan Kaufmann Publishers.
- [144] KATAGIRI, H., HIRASAWA, K., HU, J., and MURATA, J., A new model to realize variable size genetic network programming, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 890, New York, 2002, Morgan Kaufmann Publishers.
- [145] KORKMAZ, E. E. and ÜÇOLUK, G., Controlling the genetic programming search, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 891, New York, 2002, Morgan Kaufmann Publishers.
- [146] OLIVER-MORALES, C. and VÁZQUEZ, K. R., MB GP in modelling and prediction, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 892, New York, 2002, Morgan Kaufmann Publishers.
- [147] OLSON, R. and WILCOX, B., Self-improvement for the ADATE automatic programming system, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 893, New York, 2002, Morgan Kaufmann Publishers.
- [148] WITHALL, M. S., HINDE, C. J., and STONE, R. G., Evolving readable Perl, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 894, New York, 2002, Morgan Kaufmann Publishers.
- [149] BULL, L., Lookahead and latent learning in ZCS, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 897–904, New York, 2002, Morgan Kaufmann Publishers.
- [150] BULL, L. and O'HARA, T., Accuracy-based neuro and neuro-fuzzy classifier systems, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 905–911, New York, 2002, Morgan Kaufmann Publishers.
- [151] DANEK, M. and SMITH, R. E., XCS applied to mapping FPGA architectures, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 912–919, New York, 2002, Morgan Kaufmann Publishers.
- [152] FU, C. and DAVIS, L., A modified classifier system compaction algorithm, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 920–925, New York, 2002, Morgan Kaufmann Publishers.
- [153] LANDAU, S., PICAULT, S., SIGAUD, O., and GÉRARD, P., A comparison between ATNoSFERES and XCSM, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 926–933, New York, 2002, Morgan Kaufmann Publishers.

- [154] LLORÀ, X. and GARRELL, J. M., Coevolving different knowledge representations with fine-grained parallel learning classifier systems, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 934–941, New York, 2002, Morgan Kaufmann Publishers.
- [155] ROSS, P., SCHULENBURG, S., MARÍN-BLÁZQUEZ, J., and HART, E., Hyper-heuristics: Learning to combine simple heuristics in bin-packing problems, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 942–948, New York, 2002, Morgan Kaufmann Publishers.
- [156] BULL, L., WYATT, D., and PARMEE, I., Towards the use of XCS in interactive evolutionary design, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 951, New York, 2002, Morgan Kaufmann Publishers.
- [157] KÓKAI, G., TÓTH, Z., and ZVADA, S., An experimental comparison of genetic and classical concept learning methods, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 952, New York, 2002, Morgan Kaufmann Publishers.
- [158] NERI, F., Cooperative concept learning by means of A distributed GA, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 953, New York, 2002, Morgan Kaufmann Publishers.
- [159] EBNER, M., BREUNIG, H.-G., and ALBERT, J., On the use of negative selection in an artificial immune system, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 957–964, New York, 2002, Morgan Kaufmann Publishers.
- [160] KOSORUKOFF, A. and GOLDBERG, D. E., Evolutionary computation as A form of organization, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 965–972, New York, 2002, Morgan Kaufmann Publishers.
- [161] MASUM, H., CHRISTENSEN, S., and OPPACHER, F., The turing ratio: Metrics for open-ended tasks, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 973–980, New York, 2002, Morgan Kaufmann Publishers.
- [162] WANG, X., DAVIS, L., and FU, C., Genetic algorithms and fine-grained topologies for optimization, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 981–988, New York, 2002, Morgan Kaufmann Publishers.
- [163] ARENAS, M. G., DOLIN, B., MERELO, J. J., CASTILLO, P. A., De Viana, I. F., et al., JEO: Java evolving objects, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 991, New York, 2002, Morgan Kaufmann Publishers.
- [164] BARONE, L., WHILE, L., and HINGSTON, P., Designing crushers with A multi-objective evolutionary algorithm, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 995–1002, New York, 2002, Morgan Kaufmann Publishers.
- [165] BHANU, B. and LIN, Y., Learning composite operators for object detection, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1003–1010, New York, 2002, Morgan Kaufmann Publishers.

- [166] BRABAZON, A., O'NEILL, M., MATTHEWS, R., and RYAN, C., Grammatical evolution and corporate failure prediction, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1011–1018, New York, 2002, Morgan Kaufmann Publishers.
- [167] CANTÚ-PAZ, E. and KAMATH, C., Evolving neural networks for the classification of galaxies, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1019–1026, New York, 2002, Morgan Kaufmann Publishers.
- [168] CARR, R., HART, W., KRASNOGOR, N., HIRST, J., BURKE, E., et al., Alignment of protein structures with A memetic evolutionary algorithm, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1027–1034, New York, 2002, Morgan Kaufmann Publishers.
- [169] CARVALHO, D. R. and FREITAS, A. A., A genetic algorithm with sequential niching for discovering small-disjunct rules, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1035–1042, New York, 2002, Morgan Kaufmann Publishers.
- [170] CASTILLO, F. A., MARSHALL, K. A., GREEN, J. L., and KORDON, A. K., Symbolic regression in design of experiments: A case study with linearizing transformations, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1043–1047, New York, 2002, Morgan Kaufmann Publishers.
- [171] CHEN, P., FU, Z., CHEN, P., and LIM, A., Using genetic algorithms to solve the yard allocation problem, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1049–1056, New York, 2002, Morgan Kaufmann Publishers.
- [172] CONGDON, C. B., Gaphyl: An evolutionary algorithms approach for the study of natural evolution, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1057–1064, New York, 2002, Morgan Kaufmann Publishers.
- [173] PIETRO, A. D., WHILE, L., and BARONE, L., Learning in RoboCup keepaway using evolutionary algorithms, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1065–1072, New York, 2002, Morgan Kaufmann Publishers.
- [174] FAN, Z., SEO, K., ROSENBERG, R. C., HU, J., and GOODMAN, E. D., Exploring multiple design topologies using genetic programming and bond graphs, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1073–1080, New York, 2002, Morgan Kaufmann Publishers.
- [175] GONZÁLEZ, F. A. and DASGUPTA, D., An imunogenetic technique to detect anomalies in network traffic, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1081–1088, New York, 2002, Morgan Kaufmann Publishers.
- [176] HAMZA, K., MAHMOUD, H., and SAITOU, K., Design optimization of N-shaped roof trusses, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1089–1096, New York, 2002, Morgan Kaufmann Publishers.
- [177] HOWARD, D. and ROBERTS, S. C., Application of genetic programming to motorway traffic modelling, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1097–1104, New York, 2002, Morgan Kaufmann Publishers.

- [178] JIN, Y. and SENDHOFF, B., Fitness approximation in evolutionary computation—a survey, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1105–1112, New York, 2002, Morgan Kaufmann Publishers.
- [179] KANG, L.-S., KANG, Z., LI, Y., and GARIS, H. D., A two level evolutionary modeling system for financial data, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1113–1118, New York, 2002, Morgan Kaufmann Publishers.
- [180] KWON, Y.-K., HONG, S.-D., and MOON, B.-R., A genetic hybrid for critical heat flux function approximation, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1119–1125, New York, 2002, Morgan Kaufmann Publishers.
- [181] LEE, S.-Y., CHOI, S.-S., and MOON, B.-R., Search improvement by genetic algorithms with A semiotic network, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1126–1132, New York, 2002, Morgan Kaufmann Publishers.
- [182] LINDEN, D. S., Antenna design using genetic algorithm, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1133–1140, New York, 2002, Morgan Kaufmann Publishers.
- [183] MONTANA, D., HUSSAIN, T., and SAXENA, T., Adaptive reconfiguration of data networks using genetic algorithms, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1141–1149, New York, 2002, Morgan Kaufmann Publishers.
- [184] MOORE, J. H., HAHN, L. W., RITCHIE, M. D., THORNTON, T. A., and WHITE, B. C., Application of genetic algorithms to the discovery of complex models for simulation studies in human genetics, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1150–1155, New York, 2002, Morgan Kaufmann Publishers.
- [185] NAUJOKS, B., HAASE, W., ZIEGENHIRT, J., and BÄCK, T., Multi objective airfoil design using single parent populations, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1156–1163, New York, 2002, Morgan Kaufmann Publishers.
- [186] ODUGUWA, V. and ROY, R., Multi-objective optimisation of rolling rod product design using meta-modelling approach, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1164–1171, New York, 2002, Morgan Kaufmann Publishers.
- [187] PARK, E.-J., KIM, Y.-H., and MOON, B.-R., Genetic search for fixed channel assignment problem with limited bandwidth, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1172–1179, New York, 2002, Morgan Kaufmann Publishers.
- [188] RASHEED, K., VATTAM, S., and NI, X., Comparison of methods for using reduced models to speed up design optimization, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1180–1187, New York, 2002, Morgan Kaufmann Publishers.
- [189] ROMÃO, W., FREITAS, A. A., and PACHECO, R. C. S., A genetic algorithm for discovering interesting fuzzy prediction rules: Applications to science and technology data, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1188–1195, New York, 2002, Morgan Kaufmann Publishers.

- [190] ROSS, B. J., GUALTIERI, A. G., FUETEN, F., and BUDKEWITSCH, P., Hyperspectral image analysis using genetic programming, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1196–1203, New York, 2002, Morgan Kaufmann Publishers.
- [191] SATO, Y., Voice conversion using interactive evolution of prosodic control, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1204–1211, New York, 2002, Morgan Kaufmann Publishers.
- [192] SCHAFFER, J. D., AGNIHOTRI, L., DIMITROVA, N., McGEE, T., and JEANNIN, S., Improving digital video commercial detectors with genetic algorithms, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1212–1218, New York, 2002, Morgan Kaufmann Publishers.
- [193] TANEV, I. T., UOZUMI, T., and MOROTOME, Y., An application service provider approach for hybrid evolutionary algorithm-based real-world flexible job shop scheduling problem, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1219–1226, New York, 2002, Morgan Kaufmann Publishers.
- [194] VOSS, M. S. and FENG, X., A new methodology for emergent system identification using particle swarm optimization (PSO) and the group method data handling (GMDH), in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1227–1232, New York, 2002, Morgan Kaufmann Publishers.
- [195] WEGENER, J., BUHR, K., and POHLHEIM, H., Automatic test data generation for structural testing of embedded software systems by evolutionary testing, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1233–1240, New York, 2002, Morgan Kaufmann Publishers.
- [196] YOUNES, A., GHENNIWA, H., and AREIBI, S., An adaptive genetic algorithm for multi objective flexible manufacturing systems, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1241–1248, New York, 2002, Morgan Kaufmann Publishers.
- [197] ZHANG, J., YUAN, X., and BUCKLES, B. P., A fast evolution strategies based approach to image registration, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1249–1256, New York, 2002, Morgan Kaufmann Publishers.
- [198] CHOI, S.-S. and MOON, B.-R., Optimized interest metric of rules and one-to-one marketing using connection networks, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 1259, New York, 2002, Morgan Kaufmann Publishers.
- [199] CHONG, H. W. and KWONG, S., A genetic algorithm for joint optimization of spare capacity and delay in self-healing network, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 1260, New York, 2002, Morgan Kaufmann Publishers.
- [200] ELLIOTT, L., INGHAM, D. B., KYNE, A. G., MERA, N. S., POURKASHANIAN, M., et al., A real coded genetic algorithm for the optimisation of reaction rate parameters for chemical kinetic modelling in a perfectly stirred reactor, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 1261, New York, 2002, Morgan Kaufmann Publishers.

- [201] FORMAN, S. L., Congressional redistricting using A TSP-based genetic algorithm, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 1262, New York, 2002, Morgan Kaufmann Publishers.
- [202] GARCÍA, H. F. G., VEGA, A. G., AGUIRRE, A. H., and COELLO, C. C., Efficient affine 2D-image registration using evolutionary strategies, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 1263, New York, 2002, Morgan Kaufmann Publishers.
- [203] GOLDBARG, M. C., GOUVÊA, E. F., and NETO, F. D. D. M., Piston pump mobile unity tour problem: An evolutionary view, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 1264, New York, 2002, Morgan Kaufmann Publishers.
- [204] GÓMEZ, A., FUENTE, D. D. L., PARREÑO, J., and PUENTE, J., Using genetic algorithms to optimize guillotine cutting operations, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 1265, New York, 2002, Morgan Kaufmann Publishers.
- [205] HO, A. C. H. and KWONG, S., Optimization of CDMA based wireless system, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 1266, New York, 2002, Morgan Kaufmann Publishers.
- [206] JI, Z. and DASGUPTA, D., Modeling convection coefficients with genetic algorithms, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 1267, New York, 2002, Morgan Kaufmann Publishers.
- [207] LARSEN, O., FREITAS, A. A., and NIEVOLA, J. C., Constructing X-of-n attributes with A genetic algorithm, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 1268, New York, 2002, Morgan Kaufmann Publishers.
- [208] MATSUI, S., WATANABE, I., and ICHI TOKORO, K., An efficient genetic algorithm for fixed channel assignment problem with limited bandwidth constraint, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 1269, New York, 2002, Morgan Kaufmann Publishers.
- [209] OTERO, F. E. B., SILVIA, M. M. S., and FREITAS, A. A., Genetic programming for attribute construction in data mining, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 1270, New York, 2002, Morgan Kaufmann Publishers.
- [210] UJJIN, S. and BENTLEY, P. J., Evolving good recommendations, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 1271, New York, 2002, Morgan Kaufmann Publishers.
- [211] VALLEJO, E. E. and RAMOS, F., Evolving finite automata with two-dimensional output for DNA recognition and visualization, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 1272, New York, 2002, Morgan Kaufmann Publishers.
- [212] VOGEL, A., FISCHER, M., and TEICH, T., Real-world shop floor scheduling by ant colony optimization, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 1273, New York, 2002, Morgan Kaufmann Publishers.

- [213] WU, L., POTTER, W. D., RASHEED, K., THISTLE, H., GHENT, J., et al., A comparison of genetic algorithm methods in aerial spray deposition management, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 1274, New York, 2002, Morgan Kaufmann Publishers.
- [214] YU, X., FIN, A., FUMMI, F., and RUDNICK, E. M., Functional test generation for digital integrated circuits using A genetic algorithm, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 1275, New York, 2002, Morgan Kaufmann Publishers.
- [215] ZYDALLIS, J. B., SRIVER, T. A., and LAMONT, G. B., Multiobjective evolutionary algorithm approach for solving integer based optimization problems, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 1276, New York, 2002, Morgan Kaufmann Publishers.
- [216] AUGUSTSSON, P., WOLFF, K., and NORDIN, P., Creation of A learning, flying robot by means of evolution, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1279–1285, New York, 2002, Morgan Kaufmann Publishers.
- [217] PARKER, G. B., Learning area coverage using the co-evolution of model parameters, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1286–1294, New York, 2002, Morgan Kaufmann Publishers.
- [218] HEDMAN, K., PERSSON, D., SKOGLUND, P., WIKLUND, D., WOLFF, K., et al., Sensing and direction in locomotion learning with A random morphology robot, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 1297, New York, 2002, Morgan Kaufmann Publishers.
- [219] POLVICHAI, J. and KHOSLA, P., Applying dynamic networks to improve learning performances of an evolutionary behavior programming system for mobile robots in dynamic environments, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 1298, New York, 2002, Morgan Kaufmann Publishers.
- [220] ISHIBUCHI, H., YOSHIDA, T., and MURATA, T., Balance between genetic search and local search in hybrid evolutionary multi-criterion optimization algorithms, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1301–1308, New York, 2002, Morgan Kaufmann Publishers.
- [221] JUNG, S. and MOON, B.-R., A hybrid genetic algorithm for the vehicle routing problem with time windows, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1309–1316, New York, 2002, Morgan Kaufmann Publishers.
- [222] REIMANN, M., STUMMER, M., and DOERNER, K., A savings based ant system for the vehicle routing problem, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1317–1326, New York, 2002, Morgan Kaufmann Publishers.
- [223] BARESEL, A., STHAMER, H., and SCHMIDT, M., Fitness function design to improve evolutionary structural testing, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1329–1336, New York, 2002, Morgan Kaufmann Publishers.

- [224] BOTTACI, L., Instrumenting programs with flag variables for test data search by genetic algorithms, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1337–1342, New York, 2002, Morgan Kaufmann Publishers.
- [225] EMER, M. C. F. P. and VERGILIO, S. R., GPTesT: A testing tool based on genetic programming, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1343–1350, New York, 2002, Morgan Kaufmann Publishers.
- [226] HARMAN, M., HIERONS, R., and PROCTOR, M., A new representation and crossover operator for search-based optimization of software modularization, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1351–1358, New York, 2002, Morgan Kaufmann Publishers.
- [227] HARMAN, M., HU, L., HIERONS, R., BARESEL, A., and STHAMER, H., Improving evolutionary testing by flag removal, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1359–1366, New York, 2002, Morgan Kaufmann Publishers.
- [228] KIRSOPP, C., SHEPPERD, M., and HART, J., Search heuristics, case-based reasoning and software project effort prediction, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1367–1374, New York, 2002, Morgan Kaufmann Publishers.
- [229] MITCHELL, B. S. and MANCORIDIS, S., Using heuristic search techniques to extract design abstractions from source code, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1375–1382, New York, 2002, Morgan Kaufmann Publishers.
- [230] Van Belle, T. and ACKLEY, D. H., Code factoring and the evolution of evolvability, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pp. 1383–1390, New York, 2002, Morgan Kaufmann Publishers.
- [231] GROSS, H.-G. and MAYER, N., Evolutionary testing in component-based real-time system construction, in LANGDON, W. B., CANTÚ-PAZ, E., MATHIAS, K., ROY, R., DAVIS, D., et al., editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, p. 1393, New York, 2002, Morgan Kaufmann Publishers.