Список литературы

[1] F. Abbattista, V. Carofiglio, and M. Koppen, Scout algorithms and genetic algorithms: A comparative study, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 769, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[2] A. V. Adamopoulos, E. F. Georgopoulos, S. D. Likothanassis, and P. A. Anninos, Forecasting the magnetoencephalogram (meg) of epileptic patients using genetically optimized neural networks, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1457–1462, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[3] A. Agapie, Random systems with complete connections, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 770, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[4] J. Aguilar and P. Miranda, Approaches based on genetic algorithms for multiobjective optimization problems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 3–10, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[5] J. Aguilar, J. Riquelme, and M. Toro, Three geometric approaches for representing decision rules in a supervised learning system, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 771, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[6] H. E. Aguirre, K. Tanaka, and T. Sugimura, Cooperative crossover and mutation operators in genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 772, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[7] M. Ahluwalia and L. Bull, A genetic programming-based classifier system, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 11–18, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[8] M. Ahluwalia and L. Bull, Coevolving functions in genetic programming: Classification using k-nearest-neighbour, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 947–952, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[9] E. Alba, C. Cotta, and J. M. Troya, Entropic and real-time analysis of the search with panmictic, structured, and parallel distributed genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 773, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[10] J. N. Aparicio, L. Correia, and F. Moura-Pires, Populations are multisets-plato, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1845–1850, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[11] P. V. Bael, D. Devogelaere, and M. Rijckaert, The job shop problem solved with simple, basic evolutionary search elements, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 665–669, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[12] A. J. Bagnall and G. D. Smith, Using an adaptive agent to bid in a simplified model of the uk market in electricity, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 774, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[13] A. Barry, Aliasing in xcs and the consecutive state problem: 1 - effects, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 19–26, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[14] A. Barry, Aliasing in xcs and the consecutive state problem: 2 - solutions, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 27–34, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[15] D. Battle, A. Homaifar, E. Tunstel, and G. Dozier, Genetic programming of full knowledge bases for fuzzy logic controllers, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1463–1468, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[16] M. A. Beck and I. C. Parmee, Extending the bounds of the search space: A multi-population approach, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1469–1476, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[17] G. N. Beligiannis, E. N. Demiris, and S. D. Likothanassis, Evolutionary multimodel partitioning filters for nonlinear systems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1227, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[18] F. H. B. III, J. R. Koza, J. Shipman, and O. Stiffelman, Building a parallel computer system for $18,000 that performs a half peta-flop per day, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1484–1490, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[19] F. H. B. III *et al.*, Evolution by means of genetic programming of analog circuits that perform digital functions, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1477–1483, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[20] P. Bentley and S. Kumar, Three ways to grow designs: A comparison of embryogenies for an evolutionary design problem, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 35–43, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[21] J. Berger, M. Sassi, and M. Salois, A hybrid genetic algorithm for the vehicle routing problem with time windows and itinerary constraints, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 44–51, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[22] M. L. Best, Coevolving mutualists guide simulated evolution, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 941, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[23] H.-G. Beyer and D. V. Arnold, Fitness noise and localization errors of the optimum in general quadratic fitness models, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 817–824, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[24] S. Boettcher and A. G. Percus, Extremal optimization: Methods derived from co-evolution, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 825–832, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[25] C. C. Bojarczuk, H. S. Lopes, and A. A. Freitas, Discovering comprehensible classification rules by using genetic programming: a case study in a medical domain, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 953–958, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[26] A. Bonarini, Comparing reinforcement learning algorithms applied to crisp and fuzzy learning classifier systems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 52–59, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[27] C. R. Bonham and I. C. Parmee, An investigation of exploration and exploitation within cluster oriented genetic algorithms (cogas), in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1491–1497, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[28] P. A. N. Bosman and D. Thierens, Linkage information processing in distribution estimation algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 60–67, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[29] M. Brameier, F. Hoffmann, P. Nordin, W. Banzhaf, and F. Francone, Parallel machine code genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1228, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[30] J. Branke, M. Cutaia, and H. Dold, Reducing genetic drift in steady state evolutionary algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 68–74, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[31] C. A. Brizuela and N. Sannomiya, A diversity study in genetic algorithms for job shop scheduling problems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 75–82, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[32] L. Bull, On using zcs in a simulated continuous double-auction market, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 83–90, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[33] S. Calderoni, Behavior-based control system in multiagent domain, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1439, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[34] A. Cangelosi, Heterochrony and adaptation in developing neural networks, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1241–1248, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[35] E. Cantu-Paz, Migration policies and takeover times in genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 775, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[36] E. Cantu-Paz, Topologies, migration rates, and multi-population parallel genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 91–98, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[37] L. Cao, T. E. H. (Francis), M. Lawrence, and W. C. Yeong, Classification of the market states using neural network, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 776, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[38] H. Cao, L. Kang, and Y. Chen, Evolutionary modeling of ordinary differential equations for dynamic systems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 959–965, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[39] L. Cao and T. E. H. (Francis), Neuro-genetic based method to the classification of acupuncture needle: A case study, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 99–105, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[40] P. A. Castillo *et al.*, G-prop-iii: Global optimization of multilayer perceptrons using an evolutionary algorithm, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 942, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[41] R. Cattral, F. Oppacher, and D. Deugo, Rule acquisition with a genetic algorithm, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 778, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[42] Z. S. H. Chan, H. W. Ngan, and A. B. Rad, Minimum-allele-reserve-keeper (mark): A fast and effective mutation scheme for genetic algorithm (ga), in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 106–113, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[43] S.-H. Chen, W.-Y. Lin, and C.-I. Tsao, Genetic algorithms, trading strategies and stochastic processes: Some new evidence from monte carlo simulations, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 114–121, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[44] S. Chen and S. F. Smith, Improving genetic algorithms by search space reductions (with applications to flow shop scheduling), in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 135–140, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[45] S. Chen and S. F. Smith, Introducing a new advantage of crossover: Commonality-based selection, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 122–128, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[46] S. Chen, C. Guerra-Salcedo, and S. F. Smith, Non-standard crossover for a standard representation – commonality-based feature subset selection, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 129–134, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[47] S.-H. Chen and T.-W. Kuo, Towards an agent-based foundation of financial econometrics: An approach based on genetic-programming artificial markets, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 966, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[48] M. Chikara and A. Masayasu, Collaborative learning agents with structural classifier systems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 777, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[49] F. S. Chong and W. B. Langdon, Java based distributed genetic programming on the internet, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1229, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[50] C.-H. Chu, G. Premkumar, C. Chou, and J. Sun, Dynamic degree constrained network design: A genetic algorithm approach, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 141–148, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[51] M. Coletti, T. D. Lash, R. Michalski, C. Mandsager, and R. Moustafa, Comparing performance of the learnable evolution model and genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 779, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[52] P. Collet, E. Lutton, F. Raynal, and M. Schoenauer, Individual gp: an alternative viewpoint for the resolution of complex problems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 974–981, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[53] T. D. Collins, A comparison of search space visualization techniques, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 780, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[54] J. J. Collins, L. Sheehan, and C. Casey, Genetic planner for a mobile robot navigation system, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 782, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[55] J. J. Collins and C. Ryan, Non-stationary function optimization using polygenic inheritance, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 781, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[56] D. Corney and I. Parmee, N-dimensional surface mapping using genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1230, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[57] L. Costa and P. Oliveira, Gas in global optimization of mixed integer non-linear problems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1773, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[58] C. Cotta, E. Alba, and J. M. Troya, Improving the scalability of dynastically optimal forma recombination by tuning the granularity of the representation, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 783, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[59] K. D. Crawford, M. D. McCormack, and D. J. MacAllister, Modified gradient techniques for normalized solution vectors, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1498–1503, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[60] H. B. C. III, Aircraft maneuvering via genetics-based adaptive agent, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1249–1256, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[61] D. Cvetkovic and I. C. Parmee, Use of preferences for ga-based multi-objective optimisation, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1504–1509, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[62] J. M. Daida, D. S. Ampy, M. Ratanasavetavadhana, H. Li, and O. A. Chaudhri, Challenges with verification, repeatability, and meaningful comparison in genetic programming: Gibson's magic, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1851–1858, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[63] J. M. Daida *et al.*, What makes a problem gp-hard? analysis of a tunably difficult problem in genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 982–989, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[64] D. Dasgupta, Y. Cao, and C. Yang, An immunogenetic approach to spectra recognition, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 149–155, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[65] G. F. Davenport, M. D. Ryan, and V. J. Rayward-Smith, Rule induction using a reverse polish representation, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 990–995, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[66] R. Deaton, Reaction temperature constraints in dna computing, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1803–1804, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[67] K. Deb, Construction of test problems for multi-objective optimization, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 164–171, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[68] K. Deb and H.-G. Beyer, Self-adaptation in real-parameter genetic algorithms with simulated binary crossover, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 172–179, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[69] M. Delgado, F. V. Zuben, and F. Gomide, Modular and hierarchial evolutionary design of fuzzy systems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 180–187, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[70] L. M. Desjarlais, M.-R. Akbarzadeh-T., and C. W. Wright, Control system optimization using genetic algorithms within the softlab toolkit, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1774, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[71] A. Dessi, A. Giani, and A. Starita, An analysis of automatic subroutine discovery in genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 996–1001, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[72] D. Digby and W. Seffens, Evolutionary algorithm analysis of the biological genetic codes, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1440, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[73] S. van Dijk, D. Thierens, and M. de Berg, On the design of genetic algorithms for geographical applications, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 188–195, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[74] C. Dimopoulos and A. M. Zalzala, Evolving scheduling policies through a genetic programming framework, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1231, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[75] P. Dittrich, A. Skusa, W. Kantschik, and W. Banzhaf, Dynamical properties of the fitness landscape of a gp controlled random morphology robot, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1002–1008, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[76] S. Droste, T. Jansen, and I. Wegener, Perhaps not a free lunch but at least a free appetizer, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 833–839, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[77] R. Dupas, G. Cavory, and G. Goncalves, Real-world applications. optimising the throughput of a manufacturing production line using a genetic algortihm, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1775, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[78] E. W. East, Infrastructure work order planning using genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1510–1516, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[79] M. Ebner and A. Zell, Evolving a behavior-based control architecture- from simulations to the real world, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1009–1014, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[80] W. Edelson and M. L. Gargano, Efficient calculation of compute-intensive fitness in genetic computations using a survival indicator for population members, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 784, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[81] A. E. Eiben, D. Elia, and J. I. van Hemert, Population dynamics and emerging mental features in aegis, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1257–1264, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[82] M. A. El-Beltagy, P. B. Nair, and A. J. Keane, Metamodeling techniques for evolutionary optimization of computationally expensive problems: Promises and limitations, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 196–203, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[83] C. Eldershaw and S. Cameron, Real-world applications: Motion planning using gas, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1776, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[84] M. Evett, T. Khoshgoftaar, P. der Chien, and E. Allen, Modelling software quality with gp, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1232, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[85] F. X. L. i Fabrega and J. M. G. i Guiu, Genifer: A nearest neighbour based classifier system using ga, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 797, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[86] I. D. Falco, A. Iazzetta, E. Tarantino, A. D. Cioppa, and A. Iacuelli, Towards a simulation of natural mutation, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 156–163, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[87] F. Federman, G. Sparkman, and S. Watt, Representation of music in a learning classifier system utilizing bach chorales, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 785, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[88] C. Fernandes, J. P. Caldeira, F. Melicio, and A. Rosa, Evolutionary algorithm for school timetabling, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1777, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[89] J. J. Fernandez Jr. and I. D. Walker, A biologically inspired fitness function for robotic grasping, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1517–1522, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[90] G. Folino, C. Pizzuti, and G. Spezzano, A cellular genetic programming approach to classification, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1015–1020, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[91] F. D. Francone, M. Conrads, W. Banzhaf, and P. Nordin, Homologous crossover in genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1021–1026, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[92] M. Fuchs, D. Fuchs, and M. Fuchs, Generating lemmas for tableau-based proof search using genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1027–1032, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[93] M. Fuchs, Large populations are not always the best choice in genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1033–1038, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[94] A. S. Fukunaga, Portfolios of genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 786, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[95] Y. Fukuyama, S. Takayama, Y. Nakanishi, and H. Yoshida, A particle swarm optimization for reactive power and voltage control in electric power systems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1523–1528, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[96] H. Furutani, Analytical solutions for infinite population genetic algorithms on multiplicative landscape, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 204–211, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[97] A. A. Gaivoronski, Modeling of complex economic systems with agent nets, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1265–1272, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[98] J. C. Gallagher and R. D. Beer, Evolution and analysis of dynamical neural networks for agents integrating vision, locomotion, and short-term memory, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1273–1280, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[99] M. Gallagher, M. Frean, and T. Downs, Real-valued evolutionary optimization using a flexible probability density estimator, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 840–846, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[100] H. de Garis *et al.*, Atr's artificial brain ("cam-brain") project: A sample of what individual "codi-1bit" model evolved neural net modules can do with digital and analog i/o, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1233, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[101] M. H. Garzon, R. J. Deaton, and K. Barnes, On self-assembling graphs in vitro, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1805–1809, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[102] R. Ghanea-Hercock, D. T. Ndumu, and J. Collis, Distributed genetic programming with mobile agents, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1441, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[103] M. R. Glickman and K. Sycara, Evolution of goal-directed behavior from limited information in a complex environment, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1281–1288, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[104] D. E. Goldberg and S. Voessner, Optimizing global-local search hybrids, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 220–228, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[105] D. E. Goldberg, Using time efficiently: Genetic-evolutionary algorithms and the continuation problem, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 212–219, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[106] I. E. Golovkin, R. C. Mancini, and S. J. Louis, Plasma x-ray spectra analysis using genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1529–1534, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[107] F. Gordillo, I. Alcala, and J. Aracil, A tool for solving differential games with co-evolutionary algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1535–1542, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[108] V. S. Gordon, R. Pirie, A. Wachter, and S. Sharp, Terrain-based genetic algorithm (tbga): Modeling parameter space as terrain, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 229–235, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[109] M. Gorges-Schleuter, An analysis of local selection in evolution strategies, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 847–854, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[110] J. Gottlieb, Evolutionary algorithms for multidimensional knapsack problems: the relevance of the boundary of the feasible region, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 787, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[111] M. Gronroos, A comparison of some methods for evolving neural networks, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1442, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[112] C. Guerra-Salcedo and D. Whitley, Genetic approach to feature selection for ensemble creation, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 236–243, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[113] A. Guigue, S. Oussedik, and D. Delahaye, Sequencing aircraft landings by genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 788, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[114] T. Hackworth, India and pakistan, a classic "richardson" arms race: A genetic algorithmic approach, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1543–1550, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[115] G. L. Haith, S. P. Colombano, J. D. Lohn, and D. Stassinopoulos, Coevolution for problem simplification, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 244–251, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[116] H. Handa, O. Katai, T. Konishi, and M. Baba, Coevolutionary genetic algorithms for solving dynamic constraint satisfaction problems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 252–257, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[117] A. Hara and T. Nagao, Emergence of the cooperative behavior using adg; automatically defined groups, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1039–1046, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[118] G. R. Harik and F. G. Lobo, A parameter-less genetic algorithm, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 258–265, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[119] L. J. Harrell and S. R. Ranjithan, Evaluation of alternative penalty function implementations in a watershed management design problem, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1551–1558, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[120] S. D. Harris, R. Mustata, L. Elliott, D. B. Ingham, and D. Lesnic, Parameter identification within rocks using genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1779, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[121] S. D. Harris, L. Elliott, D. B. Ingham, M. Pourkashanian, and C. W. Wilson, The retrieval of chemical reaction rates using genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1780, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[122] E. Hart and P. Ross, An immune system approach to scheduling in changing environments, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1559–1566, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[123] W. E. Hart, Comparing evolutionary programs and evolutionary pattern search algorithms: A drug docking application, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 855–862, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[124] A. R. Hartley, Accuracy-based fitness allows similar performance to humans in static and dynamic classification environments, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 266–273, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[125] B. Harvey, J. Foster, and D. Frincke, Towards byte code genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1234, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[126] K. B. Harvey and C. C. Pettey, The outlaw method for solving multimodal functions with split ring parallel genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 274–280, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[127] R. B. Heckendorn, S. Rana, and D. Whitley, Polynomial time summary statistics for a generalization of maxsat, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 281–288, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[128] G. Helmer, J. Wong, V. Honavar, and L. Miller, Feature selection using a genetic algorithm for intrusion detection, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1781, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[129] G. Hernandez, J. A. Goldstein, and F. Niao, Stochastic differential model for evolutionary algorithms over continuous spaces, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 863–870, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[130] M. Hinchliffe, M. Willis, and M. Tham, Dynamic chemical process modelling using a multiple basis function genetic programming algorithm, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1782, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[131] S.-Y. Ho and X.-I. Chang, An efficient generalized multiobjective evolutionary algorithm, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 871–878, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[132] S.-Y. Ho, L.-S. Shu, and H.-M. Chen, Intelligent genetic algorithm with a new intelligent crossover using orthogonal arrays, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 289–296, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[133] S.-Y. Ho, H.-M. Chen, and L.-S. Shu, Solving large knowledge base partitioning problems using an intelligent genetic algorithm, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1567–1572, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[134] T. P. Hoehn and C. C. Pettey, Parental and cyclic-rate mutation in genetic algorithms: An initial investigation, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 297–304, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[135] S. A. Hofmeyr and S. Forrest, Immunity by design: An artificial immune system, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1289–1296, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[136] J. H. Holmes, Evaluating learning classifier system performance in two-choice decision tasks: An lcs metric toolkit, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 789, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[137] T.-P. Hong, H.-S. Wang, and W.-C. Chen, Simultaneously applying multiple crossover and mutation operators, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 790, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[138] J. Horn, Controlling the cooperative-competitive boundary in niched genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 305–312, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[139] G. S. Hornby, M. Fujita, S. Takamura, T. Yamamoto, and O. Hanagata, Autonomous evolution of gaits with the sony quadruped robot, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1297–1304, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[140] G. S. Hornby and B. Mirtich, Diffuse versus true coevolution in a physics-based world, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1305–1312, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[141] D. Howard and S. C. Roberts, A staged genetic programming strategy for image analysis, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1047–1052, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[142] W. H. Hsu, W. M. Pottenger, M. Welge, J. Wu, and T.-H. Yang, Genetic algorithms for attribute synthesis in large-scale data mining, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1783, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[143] H.-D. Huang, J. T. Yang, S. F. Shen, and J.-T. Horng, An evolution strategy to solve sports scheduling problems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 943, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[144] H. Iba, Bagging, boosting, and bloating in genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1053–1060, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[145] C. Igel and K. Chellapilla, Investigating the influence of depth and degree of genotypic change on fitness in genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1061–1068, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[146] H. Iima and N. Sannomiya, Genetic algorithm for a large-scale scheduling problem in an electric wire production process, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1784, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[147] M. Jelasity, The adaptationist stance and evolutionary computation, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1859–1864, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[148] Y.-G. Jo and H. Kang, Evolutionary cellular automata for optimal path planning of mobile robots, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1443, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[149] M. John, D. Panton, and K. White, Genetic algorithm for regional surveillance, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1573–1579, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[150] B. A. Julstrom, Redundant genetic encodings may not be harmful, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 791, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[151] T. Kalganova, J. F. Miller, and T. C. Fogarty, Evolution of the digital circuits with variable layouts, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1235, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[152] I. Karanta, T. Mikkola, C. Bounsaythip, O. Jokinen, and J. Savola, Solving wood collection problem using genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1787, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[153] H. Kargupta and K. Sarkar, Function induction, gene expression, and evolutionary representation construction, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 313–320, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[154] C. L. Karr and K. Borgelt, Modeling a grinding circuit using genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1785, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[155] C. L. Karr and B. Weck, Solutions to systems of nonlinear equations via genetic algorithm, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1786, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[156] J. Kaschel, G. Kobernik, B. Meier, and T. Teich, Genetic algorithm, avoiding of deadlocks and gantt-chart-generation for the job shop scheduling problem, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 792, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[157] K. Katayama and H. Narihisa, Iterated local search approach using genetic transformation to the traveling salesman problem, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 321–328, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[158] E. Keedwell, A. Narayanan, and D. Savic, Using genetic algorithms to extract rules from trained neural networks, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 793, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[159] M. Keijzer and V. Babovic, Dimensionally aware genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1069–1076, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[160] R. E. Keller and W. Banzhaf, The evolution of genetic code in genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1077–1082, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[161] C. J. Kennedy and C. Giraud-Carrier, A depth controlling strategy for strongly typed evolutionary programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 879–885, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[162] C. Key, Non-reciprocal altruism and the evolution of paternal care, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1313–1320, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[163] B. Klyce, In real or artificial life, is evolutionary progress in a closed system possible?, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1444, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[164] J. Knowles, D. Corne, and M. Oates, A new evolutionary approach to the degree constrained minimum spanning tree problem, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 794, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[165] G. J. Koehler, Computing simple ga expected waiting times, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 795, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[166] G. Kokai, Z. Toth, and R. Vanyi, Generic evolution algorithms programming library, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1867, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[167] G. Kokai, R. Vanyi, and Z. Toth, Parametric l-system description of the retina with combined evolutionary operators, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1588–1595, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[168] S. Kopp, H. S. Mortveit, and C. M. Reidys, Sequential dynamical systems and simulation, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1445, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[169] T. Kovacs, Deletion schemes for classifier systems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 329–336, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[170] J. R. Koza *et al.*, Searching for the impossible using genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1083–1091, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[171] N. Krasnogor, W. E. Hart, J. Smith, and D. A. Pelta, Protein structure prediction with evolutionary algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1596–1601, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[172] T. Krink, B. H. Mayoh, and Z. Michalewicz, A patchwork model for evolutionary algorithms with structured and variable size populations, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1321–1328, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[173] S. Kundu, Complexity engineering, evolution and optimality of structures, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 796, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[174] W. B. Langdon, Size fair and homologous tree genetic programming crossovers, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1092–1097, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[175] A. E. Langham and P. W. Grant, A multilevel k-way partitioning algorithm for finite element meshes using competing ant colonies, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1602–1608, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[176] P. L. Lanzi and M. Colombetti, An extension to the xcs classifier system for stochastic environments, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 353–360, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[177] P. L. Lanzi, Extending the representation of classifier conditions part i: From binary to messy coding, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 337–344, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[178] P. L. Lanzi and A. Perrucci, Extending the representation of classifier conditions part ii: From messy coding to s-expressions, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 345–352, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[179] C.-Y. Lee and Y. Song, Evolutionary programming using the levy probability distribution, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 886–893, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[180] J.-Y. Lee and S.-B. Cho, Incorporating human preference into content-based image retrieval using interactive genetic algorithm, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1788, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[181] P. Lerena and M. Courant, Complexity in mate choice, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1446, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[182] J. R. Levenick, Swappers: Introns promote flexibility, diversity and invention, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 361–368, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[183] Y. Li, K. F. Man, and K. S. Tang, Multiobjective genetic algorithm for rolling-horizon production planning, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1789, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[184] I. S. Lim and D. Thalmann, How not to be a black-box: Evolution and genetic-engineering of high-level behaviours, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1329–1335, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[185] W.-Y. Lin, Improving parallel ordering of sparse matrices using genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1790, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[186] D. H. Loughlin and S. R. Ranjithan, Chance-constrained genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 369–376, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[187] S. J. Louis and Y. Zhang, A sequential similarity metric for case injected genetic algorithms applied to tsps, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 377–384, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[188] S. J. Louis and R. Tang, Interactive genetic algorithms for the traveling salesman problem, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 385–392, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[189] S. Luke, S. Hamahashi, and H. Kitano, "genetic" programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1098–1105, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[190] C. C. Maley, Four steps toward open-ended evolution, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1336–1343, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[191] E. Marchiori and C. Rossi, A flipping genetic algorithm for hard 3-sat problems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 393–400, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[192] C. E. Mariano and E. M. M., Moaq an ant-q algorithm for multiple objective optimization problems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 894–901, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[193] J. Marin and R. V. Sole, Evolutionary optimization through extinction dynamics, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1344–1349, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[194] R. E. Marks, D. F. Midgley, L. G. Cooper, and G. M. Shiraz, Coevolution with the genetic algorithm: Repeated differentiated oligopolies, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1609–1615, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[195] L. Martin, F. Moal, and C. Vrain, Declarative expression of biases in genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 401–408, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[196] D. C. Mattfeld, Scalable search spaces for scheduling problems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1616–1621, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[197] C. Mautner and R. K. Belew, Coupling morphology and control in a simulated robot, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1350–1357, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[198] B. Maxwell and S. Anderson, Training hidden markov models using population-based learning, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 944, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[199] B. McKay, M. Willis, D. Searson, and G. Montague, Non-linear continuum regression using genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1106–1111, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[200] N. F. McPhee and N. J. Hopper, Analysis of genetic diversity through population history, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1112–1120, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[201] O. J. Mengshoel and D. E. Goldberg, Probabilistic crowding: Deterministic crowding with probabilisitic replacement, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 409–416, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[202] P. Merz and B. Freisleben, Genetic algorithms for binary quadratic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 417–424, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[203] M. M. Meysenburg and J. A. Foster, Randomness and ga performance, revisited, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 425–432, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[204] M. M. Meysenburg and J. A. Foster, Random generator quality and gp performance, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1121–1126, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[205] V. V. Miagkikh and W. F. P. III, An approach to solving combinatorial optimization problems using a population of reinforcement learning agents, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1358–1365, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[206] J. F. Miller, An empirical study of the efficiency of learning boolean functions using a cartesian genetic programming approach, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1135–1142, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[207] J. F. Miller, Digital filter design at gate-level using evolutionary algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1127–1134, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[208] C. Mota, H. Ferreira, and A. Rosa, Independent and simultaneous evolution of fuzzy sleep classifiers by genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1622–1629, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[209] R. E. Moustafa, K. A. D. Jong, and E. J. Wegman, Using genetic algorithms for adaptive function approximation and mesh generation, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 798, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[210] M. Munetomo and D. E. Goldberg, Identifying linkage groups by nonlinearity/non-monotonicity detection, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 433–440, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[211] T. Murata, H. Ishibuchi, and M. Gen, Specification of local search directions in genetic local search algorithms for multi-objective optimization problems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 441–448, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[212] J. Muruzabal, Mining the space of generality with uncertainty-concerned cooperative classifiers, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 449–457, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[213] J. W. Myers, K. B. Laskey, and K. A. DeJong, Learning bayesian networks from incomplete data using evolutionary algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 458–465, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[214] M. Naoki and K. Hajime, The entropy evaluation method for the thermodynamical selection rule, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 799, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[215] B. Naudts and A. Schippers, A motivated definition of exploitation and exploration, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 800, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[216] G. Nault, V. Rialle, and J.-G. Meunier, Progen: a genetic-based semi-automatic hypertext construction tool-first steps and experiment, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1630–1635, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[217] P. L. K. G. Navarro, P. P. B. de Oliveira, F. M. Ramos, and H. F. Campos-Velho, Magnetotelluric inversion using problem-specific genetic operators, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1580–1587, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[218] J. Neves, M. Rocha, H. Rodrigues, M. Biscaia, and J. Alves, Adaptive strategies and the design of evolutionary applications, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 473–479, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[219] A. Neves, A. Silva, and E. Costa, Evolutionary path planning for nonholonomic robots, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 466–472, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[220] F. Niao, G. Hernandez, and D. Dasgupta, On evolution of stochastic dynamical neural networks, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 801, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[221] A. Nishikawa, M. Hagiya, and M. Yamamura, Virtual dna simulator and protocol design by ga, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1810–1816, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[222] M. O'Neill and C. Ryan, Under the hood of grammatical evolution, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1143–1148, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[223] M. Oates, D. Corne, and R. Loader, Variation in ea performance characteristics on the adaptive distributed database management problem, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 480–487, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[224] S. Obayashi, D. Sasaki, and Y. Takeguchi, Evolutionary computation of supersonic wing shape optimization, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1791, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[225] G. Ochoa, I. Harvey, and H. Buxton, On recombination and optimal mutation rates, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 488–495, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[226] M. Ogihara, Relating the minimum model for dna computation and boolean circuits, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1817–1821, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[227] J. C. Oh, Effects of "physical body" on biased opponent selection in the iterated prisoner's dilemma game, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1447, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[228] G. Olague, Analysis of genetic algorithms convergence applied to mensuration problems in computer vision, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1792, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[229] B. Olsson, Using evolutionary algorithms in the design of protein fingerprints, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1636–1642, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[230] I. Ono, H. Kita, and S. Kobayashi, A robust real-coded genetic algorithm using unimodal normal distribution crossover augmented by uniform crossover: Effects of self-adaptation of crossover probabilities, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 496–503, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[231] D. W. Opitz, An evolutionary approach to feature set selection, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 803, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[232] D. W. Opitz, S. C. Basak, and B. D. Gute, Hazard assessment modeling: An evolutionary ensemble approach, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1643–1650, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[233] F. Oppacher and M. Wineberg, The shifting balance genetic algorithm: Improving the ga in a dynamic environment, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 504–510, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[234] M. Oprea and S. Forrest, How the immune system generates diversity: Pathogen space coverage with random and evolved antibody libraries, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1651–1656, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[235] A. Ostermeier and N. Hansen, An evolution strategy with coordinate system invariant adaptation of arbitrary normal mutation distributions within the concept of mutative strategy parameter control, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 902–909, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[236] P. Palazzari and M. Coli, Evolving probabilistic chromosomes in genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 511–518, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[237] G. B. Parker and J. W. Mills, Adaptive hexapod gait control using anytime learning with fitness biasing, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 519–524, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[238] I. C. Parmee and A. H. Watson, Preliminary airframe design using co-evolutionary multiobjective genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1657–1665, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[239] A. Pazos, A. S. del Riego, J. Dorado, and J. J. R. Cardalda, Adaptive aspects of rhythmic composition: Genetic music, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1794, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[240] A. Pazos, J. Pazos, and A. R. Paton, Dna assembly and recombination for hamiltonian paths and binary words, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1822–1824, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[241] A. Pazos, J. Dorado, A. Santos, and J. R. Rabunal, Optimization of ga parameters to train recurrent ann through weight adjustment and selection of activation functions, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1793, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[242] M. Pelikan, D. E. Goldberg, and E. Cantu-Paz, Boa: The bayesian optimization algorithm, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 525–532, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[243] F. B. Pereira, P. Machado, E. Costa, and A. Cardoso, Graph based crossover-a case study with the busy beaver problem, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1149–1155, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[244] A. G. Pereira, Road design by evolutionary modelling of routes, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1778, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[245] S. Perkins, Evolving effective visual tracking through shaping, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1156–1161, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[246] M. Perrenoud, M. Tomassini, M. Sipper, and M. Zolla, Evolving high-quality random number generators, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 804, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[247] A. Petrowski and S. B. Hamida, A logarithmic mutation operator to solve constrained optimization problems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 805, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[248] A. J. Pindor, Using genetic algorithm to manipulate polynomial expressions, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1666–1671, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[249] V. P. Plagianakos and M. N. Vrahatis, Training neural networks with 3-bit integer weights, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 910–915, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[250] H. Pohlheim and A. Heissner, Optimal control of greenhouse climate using real-world weather data and evolutionary algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1672–1677, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[251] H. Pohlheim and J. Wegener, Testing the temporal behavior of real-time software modules using extended evolutionary algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1795, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[252] H. Pohlheim, Visualization of evolutionary algorithms - set of standard techniques and multidimensional visualization, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 533–540, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[253] R. Poli, Schema theorems without expectations, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 806, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[254] R. Poli, J. Page, and W. B. Langdon, Smooth uniform crossover, sub-machine code gp and demes: A recipe for solving high-order boolean parity problems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1162–1169, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[255] J. Poon, Problem solving: Search, exploration and co-evolution, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 541–548, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[256] M. A. Porter, M. J. Willis, and G. A. Montague, Modelling antibiotic production using standard and sequential hybridised symbolic annealing, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1796, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[257] D. K. Pratihar, K. Deb, and A. Ghosh, Design of a genetic-fuzzy system for planning optimal path and gait simultaneously of a six-legged robot, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1678–1684, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[258] J. C. F. Pujol and R. Poli, Evolution of neural networks using weight mapping, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1170–1177, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[259] S. Punya and B. Deo, Prediction of silicon content of hot metal using fuzzy-ga regression, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1685–1690, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[260] A. Radi and R. Poli, Evolutionary discovery of learning rules for feedforward neural networks with step activation function, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1178–1183, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[261] A. M. Raich and J. Ghaboussi, Frame design synthesis using implicit redundant genetic algorithm, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1691–1698, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[262] G. R. Raidl, An evolutionary approach to point-feature label placement, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 807, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[263] S. Rana, The distributional biases of crossover operators, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 549–556, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[264] A. Rechsteiner and M. A. Bedau, A generic neutral model for measuring excess evolutionary activity of genotypes, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1366–1373, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[265] F. Ren, H. Tanaka, T. Okayama, and T. Gojobori, Reconstructing molecular phylogenetic tree with multifurcation by using minimum complexity principle, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1825–1828, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[266] A. O. Rodriguez, Finding wavelet packet bases with an estimation distribution algorithm, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 802, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[267] J. A. Rose, R. J. Deaton, D. R. Franceschetti, M. Garzon, and S. E. S. Jr., A statistical mechanical treatment of error in the annealing biostep of dna computation, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1829–1834, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[268] A. Rosete-Suarez, A. Ochoa-Rodriguez, and M. Sebag, Automatic graph drawing and stochastic hill climbing, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1699–1706, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[269] B. J. Ross, Logic-based genetic programming with definite clause translation grammars, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1236, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[270] J. E. Rowe, Finding attractors for periodic fitness functions, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 557–563, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[271] M. Ryan, J. Debuse, G. Smith, and I. Whittley, A hybrid genetic algorithm for the fixed channel assignment problem, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1707–1714, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[272] V. Salim, Genetic algorithms in road investment planning with computational comparisons to simulated annealing and heuristics, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 808, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[273] A. A. Salman, K. Mehrotra, and C. K. Mohan, Linkage crossover for genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 564–571, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[274] R. P. Salustowicz and J. Schmidhuber, Sequence learning through pipe and automatic task decomposition, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1184–1191, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[275] J. Sarma and K. D. Jong, The behavior of spatially distributed evolutionary algorithms in non-stationary environments, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 572–578, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[276] H. Sawai and S. Adachi, Parallel distributed processing of a parameter-free hierarchical migration methods, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 579–586, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[277] S. Saxon and A. Barry, Xcs and the monk's problems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 809, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[278] R. Schleiffer and H.-J. Sebastian, A fuzzy neighborhood based ga in fuzzy engineering design, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1797, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[279] N. Senin, D. R. Wallace, and N. Borland, Object-based design modeling and optimization with genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1715–1722, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[280] F. Seredynski and C. Z. Janikow, Designing cellular automata-based scheduling algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 587–594, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[281] J. G. Shanahan, J. F. Baldwin, and T. P. Martin, Constructive induction of fuzzy cartesian granule feature models using genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1237, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[282] O. Sharpe, Continuing beyond nfl: Dissecting real world problems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 595–602, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[283] O. Sharpe, Persistence, search and autopoiesis, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1374–1381, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[284] S. Shimada and Y. Anzai, Fast and robust convergence of chained classifiers by generating operons through niche formation, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 810, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[285] H. Shimodaira, A diversity control oriented genetic algorithm (dcga): Development and experimental results, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 603–611, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[286] A. Silva, A. Neves, and E. Costa, Genetically programming networks to evolve memory mechanisms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1448, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[287] A. B. Simoes and E. Costa, Transposition versus crossover: An empirical study, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 612–619, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[288] M. C. Sinclair, Optical mesh network topology design using node-pair encoding genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1192–1197, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[289] C. E. Smith, An application of genetic programming to investment system optimization, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1798, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[290] H. Someya and M. Yamamura, A genetic algorithm without parameters tuning and its application on the floorplan design problem, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 620–627, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[291] G.-B. Song and S.-B. Cho, Adaptive behavior of incrementally evolved neural networks based on cellular automata, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1449, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[292] T. Soule, Voting teams: A cooperative approach to non-typical problems using genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 916–922, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[293] A. Spalanzani, S. A. Selouani, and H. Kabre, Evolutionary algorithms for optimizing speech data projection, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1799, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[294] L. Steinberg and K. Rasheed, Optimization by searching a tree of populations, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1723–1730, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[295] C. R. Stephens, Effect of mutation and recombination on the genotype-phenotype map, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1382–1389, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[296] R. Stewart and P. L. Rosin, Neural network construction using voronoi dissections, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 811, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[297] A. Stoica, C.-S. Lazaro, D. Keymeulen, and K. Hayworth, Evolution of cmos circuits in simulations and directly in hardware on a programmable chip, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1198–1203, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[298] D. Sturgill and G. Pant, Evaluation criteria for genetically-tuned problem-solving experts, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1390–1397, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[299] K. Sugai, Stochastic evolution on the hierarchical population, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 628–634, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[300] Y. Suzuki and H. Tanaka, Practical and theoretical investigation of a collective work, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1450, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[301] S. Swift and X. Liu, Modelling and forecasting of glaucomatous visual fields using genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1731–1737, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[302] K. Takadama, T. Terano, and K. Shimohara, How to design good learning agents in organization, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1398–1405, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[303] E. Takahashi, M. Murakawa, K. Toda, and T. Higuchi, An evolvable-hardware-based clock timing architecture towards gigahz digital systems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1204–1210, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[304] H. Terashima-Marin, P. Ross, and M. Valenzuela-Rendon, Evolution of constraint satisfaction strategies in examination timetabling, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 635–642, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[305] D. Thierens, Estimating the significant non-linearities in the genome problem-coding, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 643–648, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[306] Y. Tian, N. Sannomiya, and T. Yokokura, A simulation study on adaptive behavior of fish schools under environmental variation, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1451, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[307] D. S. Todd and P. Sen, Directed multiple objective search of design spaces using genetic algorithms and neural networks, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1738–1743, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[308] A. Tomlinson and L. Bull, On corporate classifier systems: Increasing the benefits of rule linkage, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 649–656, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[309] A. Trenaman, Further investigations into the evolution of agents with concurrent genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1452, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[310] S. Tsutsui, M. Yamamura, and T. Higuchi, Multi-parent recombination with simplex crossover in real coded genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 657–664, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[311] A. Tucker and X. Liu, Extending evolutionary programming methods to the learning of dynamic bayesian networks, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 923–929, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[312] E. Uchibe, M. Nakamura, and M. Asada, Cooperative and competitive behavior acquisition for mobile robots through co-evolution, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1406–1413, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[313] K. Uno and A. Namatame, Evolutionary behaviors emerged through strategic interactions in the large, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1414–1421, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[314] C. L. Valenzuela, Evolutionary divide and conquer (ii) for the tsp, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1744–1749, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[315] E. E. Vallejo and F. Ramos, Result-sharing: A framework for cooperation in genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1238, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[316] K. Vekaria and C. Clack, Biases introduced by adaptive recombination operators, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 670–677, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[317] M. S. Voss and C. M. Foley, Evolutionary algorithm for structural optimization, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 678–685, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[318] D. Vrajitoru, Genetic programming operators applied to genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 686–693, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[319] N. J. Vriend, The difference between individual and population genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 812, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[320] K. Wagner, Habitat, communication and cooperative strategies, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 694–701, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[321] R. L. Walker, Assessment of the web using genetic programming, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1750–1755, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[322] R. Walker and O. Miglino, Simulating exploratory behavior in evolving neural networks, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1422–1428, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[323] P. Walsh, A functional style and fitness evaluation scheme for inducting high level programs, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1211–1216, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[324] H. Watabe and T. Kawaoka, Solving combinatorial optimization problems with multi-step genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 813, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[325] J.-P. Watson, A performance assessment of modern niching methods for parameter optimization problems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 702–709, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[326] R. A. Watson and J. B. Pollack, Incremental commitment in genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 710–717, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[327] G. M. Weiss, Timeweaver: a genetic algorithm for identifying predictive patterns in sequences of events, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 718–725, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[328] T. White and B. Pagurek, Application oriented routing with biologically-inspired agents, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1453, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[329] D. Whitley, A free lunch proof for gray versus binary encodings, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 726–733, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[330] K. P. Williams and S. A. Williams, Two evolutionary representations for automatic parallelization, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1429–1436, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[331] K. P. Wong, J. Yuryevich, and A. Li, Evolutionary programming based method for evaluation of power flow, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1756–1761, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[332] D. Wood, J. Chen, E. A. B. Lemieux, and W. Cedeno, A dna implementation of the max 1s problem, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1835–1842, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[333] A. H. Wright and Y. Zhao, Markov chain models of genetic algorithms, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 734–741, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[334] J.-M. Yang and C.-Y. Kao, An evolutionary algorithm for continuous global optimization, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 930–938, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[335] C. Yang, D. Dasgupta, and Y. Cao, A group encoding technique for set partitioning problems, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 742–749, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[336] J. Yang, A. Tiyyagura, F. Chen, and V. Honavar, Feature subset selection for rule induction using ripper, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, p. 1800, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[337] J. Yen, L. Yang, B. Lee, and J. C. Liao, A supervisory simplex-ga approach for metabolic model optimization, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 750–757, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[338] T. Yoshimi and T. Taura, A computational model of a viewpoint-forming process in a hierarchical classifier system, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, pp. 758–766, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[339] M. M. Zahran, A. H. A. Wahab, and S. I. Shaheen, Adaptive genetic algorithm for multiprocessor scheduling, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 1, p. 814, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[340] B.-T. Zhang and J.-G. Joung, Genetic programming with incremental data inheritance, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1217–1224, Orlando, Florida, USA, 1999, Morgan Kaufmann.

[341] E. Zitzler, J. Teich, and S. S. Bhattacharyya, Evolutionary algorithm based exploration of software schedules for digital signal processors, in *Proceedings of the Genetic and Evolutionary Computation Conference*, edited by W. Banzhaf *et al.*, volume 2, pp. 1762–1770, Orlando, Florida, USA, 1999, Morgan Kaufmann.