

Список литературы

- [ABBATTISTA *et al.*, 1999] ABBATTISTA, F., CAROFIGLIO, V., and KOPPEN, M. (1999). Scout Algorithms and Genetic Algorithms: A Comparative Study. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 769, Orlando, Florida, USA. Morgan Kaufmann.
- [ADAMOPOULOS *et al.*, 1999] ADAMOPOULOS, A. V., GEORGOPOULOS, E. F., LIKOTHANASSIS, S. D., and ANNINOS, P. A. (1999). Forecasting the MagnetoEncephaloGram (MEG) of Epileptic Patients Using Genetically Optimized Neural Networks. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1457–1462, Orlando, Florida, USA. Morgan Kaufmann.
- [AGAPIE, 1999] AGAPIE, A. (1999). Random Systems with Complete Connections. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 770, Orlando, Florida, USA. Morgan Kaufmann.
- [AGUILAR and MIRANDA, 1999] AGUILAR, J. and MIRANDA, P. (1999). Approaches Based on Genetic Algorithms for Multiobjective Optimization Problems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 3–10, Orlando, Florida, USA. Morgan Kaufmann.
- [AGUILAR *et al.*, 1999] AGUILAR, J., RIQUELME, J., and TORO, M. (1999). Three Geometric Approaches for representing Decision Rules in a Supervised Learning System. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 771, Orlando, Florida, USA. Morgan Kaufmann.
- [AGUIRRE *et al.*, 1999] AGUIRRE, H. E., TANAKA, K., and SUGIMURA, T. (1999). Cooperative Crossover and Mutation Operators in Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 772, Orlando, Florida, USA. Morgan Kaufmann.
- [AHLUWALIA and BULL, 1999a] AHLUWALIA, M. and BULL, L. (1999a). Coevolving Functions in Genetic Programming: Classification using K-nearest-neighbour. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 947–952, Orlando, Florida, USA. Morgan Kaufmann.
- [AHLUWALIA and BULL, 1999b] AHLUWALIA, M. and BULL, L. (1999b). A Genetic Programming-based Classifier System. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 11–18, Orlando, Florida, USA. Morgan Kaufmann.
- [ALBA *et al.*, 1999] ALBA, E., COTTA, C., and TROYA, J. M. (1999). Entropic and Real-Time Analysis of the Search with Panmictic, Structured, and Parallel Distributed Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 773, Orlando, Florida, USA. Morgan Kaufmann.
- [APARICIO *et al.*, 1999] APARICIO, J. N., CORREIA, L., and MOURA-PIRES, F. (1999). Populations are Multisets-PLATO. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1845–1850, Orlando, Florida, USA. Morgan Kaufmann.

- [BAEL *et al.*, 1999] BAEL, P. V., DEVOGELAERE, D., and RIJCKAERT, M. (1999). The Job Shop Problem Solved with Simple, Basic Evolutionary Search Elements. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 665–669, Orlando, Florida, USA. Morgan Kaufmann.
- [BAGNALL and SMITH, 1999] BAGNALL, A. J. and SMITH, G. D. (1999). Using an Adaptive Agent to Bid in a Simplified Model of the UK Market in Electricity. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 774, Orlando, Florida, USA. Morgan Kaufmann.
- [BARRY, 1999a] BARRY, A. (1999a). Aliasing in XCS and the Consecutive State Problem: 1 - Effects. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 19–26, Orlando, Florida, USA. Morgan Kaufmann.
- [BARRY, 1999b] BARRY, A. (1999b). Aliasing in XCS and the Consecutive State Problem: 2 - Solutions. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 27–34, Orlando, Florida, USA. Morgan Kaufmann.
- [BATTLE *et al.*, 1999] BATTLE, D., HOMAIFAR, A., TUNSTEL, E., and DOZIER, G. (1999). Genetic Programming of Full Knowledge Bases for Fuzzy Logic Controllers. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1463–1468, Orlando, Florida, USA. Morgan Kaufmann.
- [BECK and PARMEE, 1999] BECK, M. A. and PARMEE, I. C. (1999). Extending the bounds of the search space: A Multi-Population approach. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1469–1476, Orlando, Florida, USA. Morgan Kaufmann.
- [BELIGIANNIS *et al.*, 1999] BELIGIANNIS, G. N., DEMIRIS, E. N., and LIKOTHANASSIS, S. D. (1999). Evolutionary Multimodel Partitioning Filters for Nonlinear Systems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1227, Orlando, Florida, USA. Morgan Kaufmann.
- [BENTLEY and KUMAR, 1999] BENTLEY, P. and KUMAR, S. (1999). Three Ways to Grow Designs: A Comparison of Embryogenies for an Evolutionary Design Problem. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 35–43, Orlando, Florida, USA. Morgan Kaufmann.
- [BERGER *et al.*, 1999] BERGER, J., SASSI, M., and SALOIS, M. (1999). A Hybrid Genetic Algorithm for the Vehicle Routing Problem with Time Windows and Itinerary Constraints. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 44–51, Orlando, Florida, USA. Morgan Kaufmann.
- [BEST, 1999] BEST, M. L. (1999). Coevolving Mutualists Guide Simulated Evolution. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 941, Orlando, Florida, USA. Morgan Kaufmann.
- [BEYER and ARNOLD, 1999] BEYER, H.-G. and ARNOLD, D. V. (1999). Fitness Noise and Localization Errors of the Optimum in General Quadratic Fitness Models. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E.,

- editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 817–824, Orlando, Florida, USA. Morgan Kaufmann.
- [BOETTCHER and PERCUS, 1999] BOETTCHER, S. and PERCUS, A. G. (1999). Extremal Optimization: Methods derived from Co-Evolution. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 825–832, Orlando, Florida, USA. Morgan Kaufmann.
- [BOJARCZUK *et al.*, 1999] BOJARCZUK, C. C., LOPES, H. S., and FREITAS, A. A. (1999). Discovering comprehensible classification rules by using Genetic Programming: a case study in a medical domain. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 953–958, Orlando, Florida, USA. Morgan Kaufmann.
- [BONARINI, 1999] BONARINI, A. (1999). Comparing Reinforcement Learning Algorithms Applied to Crisp and Fuzzy Learning Classifier Systems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 52–59, Orlando, Florida, USA. Morgan Kaufmann.
- [BONHAM and PARMEE, 1999] BONHAM, C. R. and PARMEE, I. C. (1999). An Investigation of Exploration and Exploitation Within Cluster Oriented Genetic Algorithms (COGAs). In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1491–1497, Orlando, Florida, USA. Morgan Kaufmann.
- [BOSMAN and THIERENS, 1999] BOSMAN, P. A. N. and THIERENS, D. (1999). Linkage Information Processing In Distribution Estimation Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 60–67, Orlando, Florida, USA. Morgan Kaufmann.
- [BRAMEIER *et al.*, 1999] BRAMEIER, M., HOFFMANN, F., NORDIN, P., BANZHAF, W., and FRANCONI, F. (1999). Parallel Machine Code Genetic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1228, Orlando, Florida, USA. Morgan Kaufmann.
- [BRANKE *et al.*, 1999] BRANKE, J., CUTAIA, M., and DOLD, H. (1999). Reducing Genetic Drift in Steady State Evolutionary Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 68–74, Orlando, Florida, USA. Morgan Kaufmann.
- [BRIZUELA and SANNOMIYA, 1999] BRIZUELA, C. A. and SANNOMIYA, N. (1999). A Diversity Study in Genetic Algorithms for Job Shop Scheduling Problems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 75–82, Orlando, Florida, USA. Morgan Kaufmann.
- [BULL, 1999] BULL, L. (1999). On using ZCS in a Simulated Continuous Double-Auction Market. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 83–90, Orlando, Florida, USA. Morgan Kaufmann.
- [CALDERONI, 1999] CALDERONI, S. (1999). Behavior-Based Control System in MultiAgent Domain. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1439, Orlando, Florida, USA. Morgan Kaufmann.

- [CANGELOSI, 1999] CANGELOSI, A. (1999). Heterochrony and Adaptation in Developing Neural Networks. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1241–1248, Orlando, Florida, USA. Morgan Kaufmann.
- [CANTU-PAZ, 1999a] CANTU-PAZ, E. (1999a). Migration Policies and Takeover Times in Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 775, Orlando, Florida, USA. Morgan Kaufmann.
- [CANTU-PAZ, 1999b] CANTU-PAZ, E. (1999b). Topologies, Migration Rates, and Multi-Population Parallel Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 91–98, Orlando, Florida, USA. Morgan Kaufmann.
- [CAO *et al.*, 1999a] CAO, H., KANG, L., and CHEN, Y. (1999a). Evolutionary Modeling of Ordinary Differential Equations for Dynamic Systems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 959–965, Orlando, Florida, USA. Morgan Kaufmann.
- [CAO and (FRANCIS), 1999] CAO, L. and (FRANCIS), T. E. H. (1999). Neuro-Genetic Based Method to the Classification of Acupuncture Needle: A Case Study. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 99–105, Orlando, Florida, USA. Morgan Kaufmann.
- [CAO *et al.*, 1999b] CAO, L., (FRANCIS), T. E. H., LAWRENCE, M., and YEONG, W. C. (1999b). Classification of the Market States Using Neural Network. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 776, Orlando, Florida, USA. Morgan Kaufmann.
- [CASTILLO *et al.*, 1999] CASTILLO, P. A., RIVAS, V., MERELO, J. J., GONZALEZ, J., PRIETO, A., and ROMERO, G. (1999). G-Prop-III: Global Optimization of Multilayer Perceptrons using an Evolutionary Algorithm. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 942, Orlando, Florida, USA. Morgan Kaufmann.
- [CATTRAL *et al.*, 1999] CATTRAL, R., OPPACHER, F., and DEUGO, D. (1999). Rule Acquisition with a Genetic Algorithm. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 778, Orlando, Florida, USA. Morgan Kaufmann.
- [CHAN *et al.*, 1999] CHAN, Z. S. H., NGAN, H. W., and RAD, A. B. (1999). Minimum-Allele-Reserve-Keeper (MARK): A Fast and Effective Mutation Scheme for Genetic Algorithm (GA). In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 106–113, Orlando, Florida, USA. Morgan Kaufmann.
- [CHEN *et al.*, 1999a] CHEN, S., GUERRA-SALCEDO, C., and SMITH, S. F. (1999a). Non-Standard Crossover for a Standard Representation – Commonality-Based Feature Subset Selection. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 129–134, Orlando, Florida, USA. Morgan Kaufmann.
- [CHEN and SMITH, 1999a] CHEN, S. and SMITH, S. F. (1999a). Improving Genetic Algorithms by Search Space Reductions (with Applications to Flow Shop Scheduling). In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 135–140, Orlando, Florida, USA. Morgan Kaufmann.

- [CHEN and SMITH, 1999b] CHEN, S. and SMITH, S. F. (1999b). Introducing a New Advantage of Crossover: Commonality-Based Selection. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 122–128, Orlando, Florida, USA. Morgan Kaufmann.
- [CHEN and KUO, 1999] CHEN, S.-H. and KUO, T.-W. (1999). Towards an Agent-Based Foundation of Financial Econometrics: An Approach Based on Genetic-Programming Artificial Markets. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 966, Orlando, Florida, USA. Morgan Kaufmann.
- [CHEN *et al.*, 1999b] CHEN, S.-H., LIN, W.-Y., and TSAO, C.-I. (1999b). Genetic Algorithms, Trading Strategies and Stochastic Processes: Some New Evidence from Monte Carlo Simulations. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 114–121, Orlando, Florida, USA. Morgan Kaufmann.
- [CHIKARA and MASAYASU, 1999] CHIKARA, M. and MASAYASU, A. (1999). Collaborative Learning Agents with Structural Classifier Systems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 777, Orlando, Florida, USA. Morgan Kaufmann.
- [CHONG and LANGDON, 1999] CHONG, F. S. and LANGDON, W. B. (1999). Java based Distributed Genetic Programming on the Internet. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1229, Orlando, Florida, USA. Morgan Kaufmann.
- [CHU *et al.*, 1999] CHU, C.-H., PREMKUMAR, G., CHOU, C., and SUN, J. (1999). Dynamic Degree Constrained Network Design: A Genetic Algorithm Approach. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 141–148, Orlando, Florida, USA. Morgan Kaufmann.
- [COLETTI *et al.*, 1999] COLETTI, M., LASH, T. D., MICHALSKI, R., MANDSAGER, C., and MOUSTAFA, R. (1999). Comparing Performance of the Learnable Evolution Model and Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 779, Orlando, Florida, USA. Morgan Kaufmann.
- [COLLET *et al.*, 1999] COLLET, P., LUTTON, E., RAYNAL, F., and SCHOENAUER, M. (1999). Individual GP: an Alternative Viewpoint for the Resolution of Complex Problems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 974–981, Orlando, Florida, USA. Morgan Kaufmann.
- [COLLINS and RYAN, 1999] COLLINS, J. J. and RYAN, C. (1999). Non-stationary Function Optimization using Polygenic Inheritance. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 781, Orlando, Florida, USA. Morgan Kaufmann.
- [COLLINS *et al.*, 1999] COLLINS, J. J., SHEEHAN, L., and CASEY, C. (1999). Genetic Planner for a Mobile Robot Navigation System. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 782, Orlando, Florida, USA. Morgan Kaufmann.
- [COLLINS, 1999] COLLINS, T. D. (1999). A Comparison of Search Space Visualization Techniques. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH,

- R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 780, Orlando, Florida, USA. Morgan Kaufmann.
- [CORNEY and PARMEE, 1999] CORNEY, D. and PARMEE, I. (1999). N-Dimensional Surface Mapping Using Genetic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1230, Orlando, Florida, USA. Morgan Kaufmann.
- [COSTA and OLIVEIRA, 1999] COSTA, L. and OLIVEIRA, P. (1999). GAs in Global Optimization of Mixed Integer Non-Linear Problems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1773, Orlando, Florida, USA. Morgan Kaufmann.
- [COTTA *et al.*, 1999] COTTA, C., ALBA, E., and TROYA, J. M. (1999). Improving the Scalability of Dynamically Optimal Forma Recombination by Tuning the Granularity of the Representation. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 783, Orlando, Florida, USA. Morgan Kaufmann.
- [CRAWFORD *et al.*, 1999] CRAWFORD, K. D., MCCORMACK, M. D., and MACALLISTER, D. J. (1999). Modified Gradient Techniques for Normalized Solution Vectors. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1498–1503, Orlando, Florida, USA. Morgan Kaufmann.
- [CVETKOVIC and PARMEE, 1999] CVETKOVIC, D. and PARMEE, I. C. (1999). Use of Preferences for GA-based Multi-objective Optimisation. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1504–1509, Orlando, Florida, USA. Morgan Kaufmann.
- [DAIDA *et al.*, 1999a] DAIDA, J. M., AMPY, D. S., RATANASAVETAVADHANA, M., LI, H., and CHAUDHRI, O. A. (1999a). Challenges with Verification, Repeatability, and Meaningful Comparison in Genetic Programming: Gibson’s Magic. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1851–1858, Orlando, Florida, USA. Morgan Kaufmann.
- [DAIDA *et al.*, 1999b] DAIDA, J. M., POLITO, J. A., STANHOPE, S. A., BERTRAM, R. R., KHOO, J. C., and CHAUDHARY, S. A. (1999b). What Makes a Problem GP-Hard? Analysis of a Tunably Difficult Problem in Genetic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 982–989, Orlando, Florida, USA. Morgan Kaufmann.
- [DASGUPTA *et al.*, 1999] DASGUPTA, D., CAO, Y., and YANG, C. (1999). An Immunogenetic Approach to Spectra Recognition. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 149–155, Orlando, Florida, USA. Morgan Kaufmann.
- [DAVENPORT *et al.*, 1999] DAVENPORT, G. F., RYAN, M. D., and RAYWARD-SMITH, V. J. (1999). Rule Induction Using a Reverse Polish Representation. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 990–995, Orlando, Florida, USA. Morgan Kaufmann.
- [DE GARIS *et al.*, 1999] DE GARIS, H., BULLER, A., KORKIN, M., GERS, F., NAWA, N. E., and HOUGH, M. (1999). 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 BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E.,

- editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1233, Orlando, Florida, USA. Morgan Kaufmann.
- [DEATON, 1999] DEATON, R. (1999). Reaction Temperature Constraints in DNA Computing. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1803–1804, Orlando, Florida, USA. Morgan Kaufmann.
- [DEB, 1999] DEB, K. (1999). Construction of Test Problems for Multi-Objective Optimization. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 164–171, Orlando, Florida, USA. Morgan Kaufmann.
- [DEB and BEYER, 1999] DEB, K. and BEYER, H.-G. (1999). Self-Adaptation in Real-Parameter Genetic Algorithms with Simulated Binary Crossover. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 172–179, Orlando, Florida, USA. Morgan Kaufmann.
- [DELGADO *et al.*, 1999] DELGADO, M., ZUBEN, F. V., and GOMIDE, F. (1999). Modular and Hierarchical Evolutionary Design of Fuzzy Systems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 180–187, Orlando, Florida, USA. Morgan Kaufmann.
- [DESJARLAIS *et al.*, 1999] DESJARLAIS, L. M., AKBARZADEH-T., M.-R., and WRIGHT, C. W. (1999). Control System Optimization Using Genetic Algorithms within the SoftLab Toolkit. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1774, Orlando, Florida, USA. Morgan Kaufmann.
- [DESSI *et al.*, 1999] DESSI, A., GIANI, A., and STARITA, A. (1999). An Analysis of Automatic Subroutine Discovery in Genetic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 996–1001, Orlando, Florida, USA. Morgan Kaufmann.
- [DIGBY and SEFFENS, 1999] DIGBY, D. and SEFFENS, W. (1999). Evolutionary Algorithm Analysis of the Biological Genetic Codes. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1440, Orlando, Florida, USA. Morgan Kaufmann.
- [DIMOPOULOS and ZALZALA, 1999] DIMOPOULOS, C. and ZALZALA, A. M. (1999). Evolving Scheduling Policies through a Genetic Programming Framework. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1231, Orlando, Florida, USA. Morgan Kaufmann.
- [DITTRICH *et al.*, 1999] DITTRICH, P., SKUSA, A., KANTSCHIK, W., and BANZHAF, W. (1999). Dynamical Properties of the Fitness Landscape of a GP Controlled Random Morphology Robot. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1002–1008, Orlando, Florida, USA. Morgan Kaufmann.
- [DROSTE *et al.*, 1999] DROSTE, S., JANSEN, T., and WEGENER, I. (1999). Perhaps Not a Free Lunch But At Least a Free Appetizer. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 833–839, Orlando, Florida, USA. Morgan Kaufmann.

- [DUPAS *et al.*, 1999] DUPAS, R., CAVORY, G., and GONCALVES, G. (1999). Real-World Applications. Optimising the throughput of a manufacturing production line using a genetic algorithm. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1775, Orlando, Florida, USA. Morgan Kaufmann.
- [EAST, 1999] EAST, E. W. (1999). Infrastructure Work Order Planning Using Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1510–1516, Orlando, Florida, USA. Morgan Kaufmann.
- [EBNER and ZELL, 1999] EBNER, M. and ZELL, A. (1999). Evolving a behavior-based control architecture- From simulations to the real world. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1009–1014, Orlando, Florida, USA. Morgan Kaufmann.
- [EDELSON and GARGANO, 1999] EDELSON, W. and GARGANO, M. L. (1999). Efficient Calculation of Compute-Intensive Fitness In Genetic Computations Using A Survival Indicator For Population Members. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 784, Orlando, Florida, USA. Morgan Kaufmann.
- [EIBEN *et al.*, 1999] EIBEN, A. E., ELIA, D., and VAN HEMERT, J. I. (1999). Population dynamics and emerging mental features in AEGIS. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1257–1264, Orlando, Florida, USA. Morgan Kaufmann.
- [EL-BELTAGY *et al.*, 1999] EL-BELTAGY, M. A., NAIR, P. B., and KEANE, A. J. (1999). Metamodeling Techniques For Evolutionary Optimization of Computationally Expensive Problems: Promises and Limitations. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 196–203, Orlando, Florida, USA. Morgan Kaufmann.
- [ELDERSHAW and CAMERON, 1999] ELDERSHAW, C. and CAMERON, S. (1999). Real-world applications: Motion planning using GAs. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1776, Orlando, Florida, USA. Morgan Kaufmann.
- [EVETT *et al.*, 1999] EVETT, M., KHOSHGOFTAAR, T., DER CHIEN, P., and ALLEN, E. (1999). Modelling software quality with GP. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1232, Orlando, Florida, USA. Morgan Kaufmann.
- [FALCO *et al.*, 1999] FALCO, I. D., IAZZETTA, A., TARANTINO, E., CIOPPA, A. D., and IACUELLI, A. (1999). Towards a Simulation of Natural Mutation. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 156–163, Orlando, Florida, USA. Morgan Kaufmann.
- [FEDERMAN *et al.*, 1999] FEDERMAN, F., SPARKMAN, G., and WATT, S. (1999). Representation of Music in a Learning Classifier System Utilizing Bach Chorales. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 785, Orlando, Florida, USA. Morgan Kaufmann.
- [FERNANDES *et al.*, 1999] FERNANDES, C., CALDEIRA, J. P., MELICIO, F., and ROSA, A. (1999). Evolutionary Algorithm for School Timetabling. In BANZHAF, W., DAIDA, J., EIBEN, A. E.,

- GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1777, Orlando, Florida, USA. Morgan Kaufmann.
- [FERNANDEZ JR. and WALKER, 1999] FERNANDEZ JR., J. J. and WALKER, I. D. (1999). A Biologically Inspired Fitness Function for Robotic Grasping. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1517–1522, Orlando, Florida, USA. Morgan Kaufmann.
- [FOLINO *et al.*, 1999] FOLINO, G., PIZZUTI, C., and SPEZZANO, G. (1999). A Cellular Genetic Programming Approach to Classification. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1015–1020, Orlando, Florida, USA. Morgan Kaufmann.
- [FRANCONE *et al.*, 1999] FRANCONI, F. D., CONRADS, M., BANZHAF, W., and NORDIN, P. (1999). Homologous Crossover in Genetic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1021–1026, Orlando, Florida, USA. Morgan Kaufmann.
- [FUCHS, 1999] FUCHS, M. (1999). Large Populations Are Not Always The Best Choice In Genetic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1033–1038, Orlando, Florida, USA. Morgan Kaufmann.
- [FUCHS *et al.*, 1999] FUCHS, M., FUCHS, D., and FUCHS, M. (1999). Generating Lemmas for Tableau-based Proof Search Using Genetic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1027–1032, Orlando, Florida, USA. Morgan Kaufmann.
- [FUKUNAGA, 1999] FUKUNAGA, A. S. (1999). Portfolios of Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 786, Orlando, Florida, USA. Morgan Kaufmann.
- [FUKUYAMA *et al.*, 1999] FUKUYAMA, Y., TAKAYAMA, S., NAKANISHI, Y., and YOSHIDA, H. (1999). A Particle Swarm Optimization for Reactive Power and Voltage Control in Electric Power Systems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1523–1528, Orlando, Florida, USA. Morgan Kaufmann.
- [FURUTANI, 1999] FURUTANI, H. (1999). Analytical Solutions for Infinite Population Genetic Algorithms on Multiplicative Landscape. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 204–211, Orlando, Florida, USA. Morgan Kaufmann.
- [GAIVORONSKI, 1999] GAIVORONSKI, A. A. (1999). Modeling of Complex Economic Systems with Agent Nets. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1265–1272, Orlando, Florida, USA. Morgan Kaufmann.
- [GALLAGHER and BEER, 1999] GALLAGHER, J. C. and BEER, R. D. (1999). Evolution and Analysis of Dynamical Neural Networks for Agents Integrating Vision, Locomotion, and Short-Term Memory. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1273–1280, Orlando, Florida, USA. Morgan Kaufmann.

- [GALLAGHER *et al.*, 1999] GALLAGHER, M., FREAN, M., and DOWNS, T. (1999). Real-valued Evolutionary Optimization using a Flexible Probability Density Estimator. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 840–846, Orlando, Florida, USA. Morgan Kaufmann.
- [GARZON *et al.*, 1999] GARZON, M. H., DEATON, R. J., and BARNES, K. (1999). On Self-Assembling Graphs in vitro. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1805–1809, Orlando, Florida, USA. Morgan Kaufmann.
- [GHANEA-HERCOCK *et al.*, 1999] GHANEA-HERCOCK, R., NDUMU, D. T., and COLLIS, J. (1999). Distributed Genetic Programming with Mobile Agents. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1441, Orlando, Florida, USA. Morgan Kaufmann.
- [GLICKMAN and SYCARA, 1999] GLICKMAN, M. R. and SYCARA, K. (1999). Evolution of Goal-Directed Behavior from Limited Information in a Complex Environment. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1281–1288, Orlando, Florida, USA. Morgan Kaufmann.
- [GOLDBERG, 1999] GOLDBERG, D. E. (1999). Using Time Efficiently: Genetic-Evolutionary Algorithms and the Continuation Problem. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 212–219, Orlando, Florida, USA. Morgan Kaufmann.
- [GOLDBERG and VOESSNER, 1999] GOLDBERG, D. E. and VOESSNER, S. (1999). Optimizing Global-Local Search Hybrids. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 220–228, Orlando, Florida, USA. Morgan Kaufmann.
- [GOLOVKIN *et al.*, 1999] GOLOVKIN, I. E., MANCINI, R. C., and LOUIS, S. J. (1999). Plasma X-ray Spectra Analysis Using Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1529–1534, Orlando, Florida, USA. Morgan Kaufmann.
- [GORDILLO *et al.*, 1999] GORDILLO, F., ALCALA, I., and ARACIL, J. (1999). A Tool for Solving Differential Games with Co-evolutionary Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1535–1542, Orlando, Florida, USA. Morgan Kaufmann.
- [GORDON *et al.*, 1999] GORDON, V. S., PIRIE, R., WACHTER, A., and SHARP, S. (1999). Terrain-Based Genetic Algorithm (TBGA): Modeling Parameter Space as Terrain. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 229–235, Orlando, Florida, USA. Morgan Kaufmann.
- [GORGES-SCHLEUTER, 1999] GORGES-SCHLEUTER, M. (1999). An Analysis of Local Selection in Evolution Strategies. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 847–854, Orlando, Florida, USA. Morgan Kaufmann.
- [GOTTLIEB, 1999] GOTTLIEB, J. (1999). Evolutionary Algorithms for Multidimensional Knapsack Problems: the Relevance of the Boundary of the Feasible Region. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings*

- of the *Genetic and Evolutionary Computation Conference*, volume 1, page 787, Orlando, Florida, USA. Morgan Kaufmann.
- [GRONROOS, 1999] GRONROOS, M. (1999). A Comparison of Some Methods for Evolving Neural Networks. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1442, Orlando, Florida, USA. Morgan Kaufmann.
- [GUERRA-SALCEDO and WHITLEY, 1999] GUERRA-SALCEDO, C. and WHITLEY, D. (1999). Genetic Approach to Feature Selection for Ensemble Creation. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 236–243, Orlando, Florida, USA. Morgan Kaufmann.
- [GUIGUE *et al.*, 1999] GUIGUE, A., OUSSEDIK, S., and DELAHAYE, D. (1999). Sequencing Aircraft Landings by Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 788, Orlando, Florida, USA. Morgan Kaufmann.
- [HACKWORTH, 1999] HACKWORTH, T. (1999). India and Pakistan, a classic “Richardson” Arms Race: A Genetic Algorithmic approach. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1543–1550, Orlando, Florida, USA. Morgan Kaufmann.
- [HAITH *et al.*, 1999] HAITH, G. L., COLOMBANO, S. P., LOHN, J. D., and STASSINOPOULOS, D. (1999). Coevolution for Problem Simplification. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 244–251, Orlando, Florida, USA. Morgan Kaufmann.
- [HANDA *et al.*, 1999] HANDA, H., KATAI, O., KONISHI, T., and BABA, M. (1999). Coevolutionary Genetic Algorithms for Solving Dynamic Constraint Satisfaction Problems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 252–257, Orlando, Florida, USA. Morgan Kaufmann.
- [HARA and NAGAO, 1999] HARA, A. and NAGAO, T. (1999). Emergence of the cooperative behavior using ADG; Automatically Defined Groups. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1039–1046, Orlando, Florida, USA. Morgan Kaufmann.
- [HARIK and LOBO, 1999] HARIK, G. R. and LOBO, F. G. (1999). A parameter-less genetic algorithm. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 258–265, Orlando, Florida, USA. Morgan Kaufmann.
- [HARRELL and RANJITHAN, 1999] HARRELL, L. J. and RANJITHAN, S. R. (1999). Evaluation of Alternative Penalty Function Implementations in a Watershed Management Design Problem. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1551–1558, Orlando, Florida, USA. Morgan Kaufmann.
- [HARRIS *et al.*, 1999a] HARRIS, S. D., ELLIOTT, L., INGHAM, D. B., POURKASHANIAN, M., and WILSON, C. W. (1999a). The Retrieval of Chemical Reaction Rates Using Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1780, Orlando, Florida, USA. Morgan Kaufmann.

- [HARRIS *et al.*, 1999b] HARRIS, S. D., MUSTATA, R., ELLIOTT, L., INGHAM, D. B., and LESNIC, D. (1999b). Parameter Identification Within Rocks Using Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1779, Orlando, Florida, USA. Morgan Kaufmann.
- [HART and ROSS, 1999] HART, E. and ROSS, P. (1999). An Immune System Approach to Scheduling in Changing Environments. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1559–1566, Orlando, Florida, USA. Morgan Kaufmann.
- [HART, 1999] HART, W. E. (1999). Comparing Evolutionary Programs and Evolutionary Pattern Search Algorithms: A Drug Docking Application. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 855–862, Orlando, Florida, USA. Morgan Kaufmann.
- [HARTLEY, 1999] HARTLEY, A. R. (1999). Accuracy-based fitness allows similar performance to humans in static and dynamic classification environments. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 266–273, Orlando, Florida, USA. Morgan Kaufmann.
- [HARVEY *et al.*, 1999] HARVEY, B., FOSTER, J., and FRINCKE, D. (1999). Towards Byte Code Genetic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1234, Orlando, Florida, USA. Morgan Kaufmann.
- [HARVEY and PETTEY, 1999] HARVEY, K. B. and PETTEY, C. C. (1999). The Outlaw Method for Solving Multimodal Functions with Split Ring Parallel Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 274–280, Orlando, Florida, USA. Morgan Kaufmann.
- [HECKENDORN *et al.*, 1999] HECKENDORN, R. B., RANA, S., and WHITLEY, D. (1999). Polynomial Time Summary Statistics for a Generalization of MAXSAT. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 281–288, Orlando, Florida, USA. Morgan Kaufmann.
- [HELMER *et al.*, 1999] HELMER, G., WONG, J., HONAVAR, V., and MILLER, L. (1999). Feature Selection Using a Genetic Algorithm for Intrusion Detection. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1781, Orlando, Florida, USA. Morgan Kaufmann.
- [HERNANDEZ *et al.*, 1999] HERNANDEZ, G., GOLDSTEIN, J. A., and NIAO, F. (1999). Stochastic Differential Model for Evolutionary Algorithms over Continuous Spaces. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 863–870, Orlando, Florida, USA. Morgan Kaufmann.
- [HINCHLIFFE *et al.*, 1999] HINCHLIFFE, M., WILLIS, M., and THAM, M. (1999). Dynamic Chemical Process Modelling Using a Multiple Basis Function Genetic Programming Algorithm. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1782, Orlando, Florida, USA. Morgan Kaufmann.
- [HO and CHANG, 1999] HO, S.-Y. and CHANG, X.-I. (1999). An Efficient Generalized Multiobjective Evolutionary Algorithm. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR,

- V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 871–878, Orlando, Florida, USA. Morgan Kaufmann.
- [HO *et al.*, 1999a] HO, S.-Y., CHEN, H.-M., and SHU, L.-S. (1999a). Solving Large Knowledge Base Partitioning Problems Using an Intelligent Genetic Algorithm. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1567–1572, Orlando, Florida, USA. Morgan Kaufmann.
- [HO *et al.*, 1999b] HO, S.-Y., SHU, L.-S., and CHEN, H.-M. (1999b). Intelligent Genetic Algorithm with a New Intelligent Crossover Using Orthogonal Arrays. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 289–296, Orlando, Florida, USA. Morgan Kaufmann.
- [HOEHN and PETTEY, 1999] HOEHN, T. P. and PETTEY, C. C. (1999). Parental and Cyclic-Rate Mutation in Genetic Algorithms: An Initial Investigation. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 297–304, Orlando, Florida, USA. Morgan Kaufmann.
- [HOFMEYR and FORREST, 1999] HOFMEYR, S. A. and FORREST, S. (1999). Immunity by Design: An Artificial Immune System. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1289–1296, Orlando, Florida, USA. Morgan Kaufmann.
- [HOLMES, 1999] HOLMES, J. H. (1999). Evaluating Learning Classifier System Performance In Two-Choice Decision Tasks: An LCS Metric Toolkit. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 789, Orlando, Florida, USA. Morgan Kaufmann.
- [HONG *et al.*, 1999] HONG, T.-P., WANG, H.-S., and CHEN, W.-C. (1999). Simultaneously Applying Multiple Crossover and Mutation Operators. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 790, Orlando, Florida, USA. Morgan Kaufmann.
- [HORN, 1999] HORN, J. (1999). Controlling the Cooperative-Competitive Boundary in Niche Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 305–312, Orlando, Florida, USA. Morgan Kaufmann.
- [HORNBY *et al.*, 1999] HORNBY, G. S., FUJITA, M., TAKAMURA, S., YAMAMOTO, T., and HANAGATA, O. (1999). Autonomous Evolution of Gaits with the Sony Quadruped Robot. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1297–1304, Orlando, Florida, USA. Morgan Kaufmann.
- [HORNBY and MIRTICH, 1999] HORNBY, G. S. and MIRTICH, B. (1999). Diffuse versus True Coevolution in a Physics-based World. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1305–1312, Orlando, Florida, USA. Morgan Kaufmann.
- [HOWARD and ROBERTS, 1999] HOWARD, D. and ROBERTS, S. C. (1999). A Staged Genetic Programming Strategy for Image Analysis. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1047–1052, Orlando, Florida, USA. Morgan Kaufmann.

- [HSU *et al.*, 1999] HSU, W. H., POTTENGER, W. M., WELGE, M., WU, J., and YANG, T.-H. (1999). Genetic Algorithms for Attribute Synthesis in Large-Scale Data Mining. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1783, Orlando, Florida, USA. Morgan Kaufmann.
- [HUANG *et al.*, 1999] HUANG, H.-D., YANG, J. T., SHEN, S. F., and HORNG, J.-T. (1999). An Evolution Strategy to Solve Sports Scheduling Problems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 943, Orlando, Florida, USA. Morgan Kaufmann.
- [I FABREGA and I GUIU, 1999] I FABREGA, F. X. L. and I GUIU, J. M. G. (1999). GENIFER: A Nearest Neighbour based Classifier System using GA. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 797, Orlando, Florida, USA. Morgan Kaufmann.
- [IBA, 1999] IBA, H. (1999). Bagging, Boosting, and Bloating in Genetic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1053–1060, Orlando, Florida, USA. Morgan Kaufmann.
- [IGEL and CHELLAPILLA, 1999] IGEL, C. and CHELLAPILLA, K. (1999). Investigating the Influence of Depth and Degree of Genotypic Change on Fitness in Genetic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1061–1068, Orlando, Florida, USA. Morgan Kaufmann.
- [III *et al.*, 1999a] III, F. H. B., KOZA, J. R., KEANE, M. A., YU, J., MYDLOWEC, W., and STIFFELMAN, O. (1999a). Evolution by Means of Genetic Programming of Analog Circuits that Perform Digital Functions. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1477–1483, Orlando, Florida, USA. Morgan Kaufmann.
- [III *et al.*, 1999b] III, F. H. B., KOZA, J. R., SHIPMAN, J., and STIFFELMAN, O. (1999b). Building a Parallel Computer System for \$18,000 that Performs a Half Peta-Flop per Day. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1484–1490, Orlando, Florida, USA. Morgan Kaufmann.
- [III, 1999] III, H. B. C. (1999). Aircraft Maneuvering via Genetics-Based Adaptive Agent. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1249–1256, Orlando, Florida, USA. Morgan Kaufmann.
- [IMA and SANNOMIYA, 1999] IMA, H. and SANNOMIYA, N. (1999). Genetic Algorithm for a Large-Scale Scheduling Problem in an Electric Wire Production Process. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1784, Orlando, Florida, USA. Morgan Kaufmann.
- [JELASITY, 1999] JELASITY, M. (1999). The Adaptationist Stance and Evolutionary Computation. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1859–1864, Orlando, Florida, USA. Morgan Kaufmann.
- [JO and KANG, 1999] JO, Y.-G. and KANG, H. (1999). Evolutionary Cellular Automata for Optimal Path Planning of Mobile Robots. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1443, Orlando, Florida, USA. Morgan Kaufmann.

- [JOHN *et al.*, 1999] JOHN, M., PANTON, D., and WHITE, K. (1999). Genetic Algorithm for Regional Surveillance. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1573–1579, Orlando, Florida, USA. Morgan Kaufmann.
- [JULSTROM, 1999] JULSTROM, B. A. (1999). Redundant Genetic Encodings May Not Be Harmful. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 791, Orlando, Florida, USA. Morgan Kaufmann.
- [KALGANOVA *et al.*, 1999] KALGANOVA, T., MILLER, J. F., and FOGARTY, T. C. (1999). Evolution of the Digital Circuits with Variable Layouts. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1235, Orlando, Florida, USA. Morgan Kaufmann.
- [KARANTA *et al.*, 1999] KARANTA, I., MIKKOLA, T., BOUNSAYTHIP, C., JOKINEN, O., and SAVOLA, J. (1999). Solving Wood Collection Problem using Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1787, Orlando, Florida, USA. Morgan Kaufmann.
- [KARGUPTA and SARKAR, 1999] KARGUPTA, H. and SARKAR, K. (1999). Function Induction, Gene Expression, And Evolutionary Representation Construction. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 313–320, Orlando, Florida, USA. Morgan Kaufmann.
- [KARR and BORGELT, 1999] KARR, C. L. and BORGELT, K. (1999). Modeling A Grinding Circuit Using Genetic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1785, Orlando, Florida, USA. Morgan Kaufmann.
- [KARR and WECK, 1999] KARR, C. L. and WECK, B. (1999). Solutions to Systems of Nonlinear Equations Via Genetic Algorithm. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1786, Orlando, Florida, USA. Morgan Kaufmann.
- [KASCHEL *et al.*, 1999] KASCHEL, J., KOBERNIK, G., MEIER, B., and TEICH, T. (1999). Genetic Algorithm, Avoiding of Deadlocks and Gantt-Chart-Generation for the Job Shop Scheduling Problem. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 792, Orlando, Florida, USA. Morgan Kaufmann.
- [KATAYAMA and NARIHISA, 1999] KATAYAMA, K. and NARIHISA, H. (1999). Iterated Local Search Approach using Genetic Transformation to the Traveling Salesman Problem. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 321–328, Orlando, Florida, USA. Morgan Kaufmann.
- [KEEDWELL *et al.*, 1999] KEEDWELL, E., NARAYANAN, A., and SAVIC, D. (1999). Using Genetic Algorithms to Extract Rules From Trained Neural Networks. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 793, Orlando, Florida, USA. Morgan Kaufmann.
- [KEIJZER and BABOVIC, 1999] KEIJZER, M. and BABOVIC, V. (1999). Dimensionally Aware Genetic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1069–1076, Orlando, Florida, USA. Morgan Kaufmann.

- [KELLER and BANZHAF, 1999] KELLER, R. E. and BANZHAF, W. (1999). The Evolution of Genetic Code in Genetic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1077–1082, Orlando, Florida, USA. Morgan Kaufmann.
- [KENNEDY and GIRAUD-CARRIER, 1999] KENNEDY, C. J. and GIRAUD-CARRIER, C. (1999). A Depth Controlling Strategy for Strongly Typed Evolutionary Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 879–885, Orlando, Florida, USA. Morgan Kaufmann.
- [KEY, 1999] KEY, C. (1999). Non-reciprocal Altruism and the Evolution of Paternal Care. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1313–1320, Orlando, Florida, USA. Morgan Kaufmann.
- [KLYCE, 1999] KLYCE, B. (1999). In real or artificial life, Is Evolutionary Progress in a Closed System Possible? In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1444, Orlando, Florida, USA. Morgan Kaufmann.
- [KNOWLES *et al.*, 1999] KNOWLES, J., CORNE, D., and OATES, M. (1999). A New Evolutionary Approach to the Degree Constrained Minimum Spanning Tree Problem. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 794, Orlando, Florida, USA. Morgan Kaufmann.
- [KOEHLER, 1999] KOEHLER, G. J. (1999). Computing Simple GA Expected Waiting Times. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 795, Orlando, Florida, USA. Morgan Kaufmann.
- [KOKAI *et al.*, 1999a] KOKAI, G., TOTH, Z., and VANYI, R. (1999a). Generic Evolution Algorithms Programming Library. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1867, Orlando, Florida, USA. Morgan Kaufmann.
- [KOKAI *et al.*, 1999b] KOKAI, G., VANYI, R., and TOTH, Z. (1999b). Parametric L-System Description of the Retina with Combined Evolutionary Operators. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1588–1595, Orlando, Florida, USA. Morgan Kaufmann.
- [KOPP *et al.*, 1999] KOPP, S., MORTVEIT, H. S., and REIDYS, C. M. (1999). Sequential Dynamical Systems and Simulation. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1445, Orlando, Florida, USA. Morgan Kaufmann.
- [KOVACS, 1999] KOVACS, T. (1999). Deletion Schemes for Classifier Systems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 329–336, Orlando, Florida, USA. Morgan Kaufmann.
- [KOZA *et al.*, 1999] KOZA, J. R., KEANE, M. A., III, F. H. B., YU, J., MYDLOWEC, W., and STIFFELMAN, O. (1999). Searching for the Impossible using Genetic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1083–1091, Orlando, Florida, USA. Morgan Kaufmann.

- [KRASNOGOR *et al.*, 1999] KRASNOGOR, N., HART, W. E., SMITH, J., and PELTA, D. A. (1999). Protein Structure Prediction With Evolutionary Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1596–1601, Orlando, Florida, USA. Morgan Kaufmann.
- [KRINK *et al.*, 1999] KRINK, T., MAYOH, B. H., and MICHALEWICZ, Z. (1999). A PATCHWORK Model for Evolutionary Algorithms with Structured and Variable Size Populations. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1321–1328, Orlando, Florida, USA. Morgan Kaufmann.
- [KUNDU, 1999] KUNDU, S. (1999). Complexity Engineering, Evolution and Optimality of Structures. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 796, Orlando, Florida, USA. Morgan Kaufmann.
- [LANGDON, 1999] LANGDON, W. B. (1999). Size Fair and Homologous Tree Genetic Programming Crossovers. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1092–1097, Orlando, Florida, USA. Morgan Kaufmann.
- [LANGHAM and GRANT, 1999] LANGHAM, A. E. and GRANT, P. W. (1999). A Multilevel k-way Partitioning Algorithm for Finite Element Meshes using Competing Ant Colonies. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1602–1608, Orlando, Florida, USA. Morgan Kaufmann.
- [LANZI, 1999] LANZI, P. L. (1999). Extending the Representation of Classifier Conditions Part I: From Binary to Messy Coding. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 337–344, Orlando, Florida, USA. Morgan Kaufmann.
- [LANZI and COLOMBETTI, 1999] LANZI, P. L. and COLOMBETTI, M. (1999). An Extension to the XCS Classifier System for Stochastic Environments. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 353–360, Orlando, Florida, USA. Morgan Kaufmann.
- [LANZI and PERRUCCI, 1999] LANZI, P. L. and PERRUCCI, A. (1999). Extending the Representation of Classifier Conditions Part II: From Messy Coding to S-Expressions. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 345–352, Orlando, Florida, USA. Morgan Kaufmann.
- [LEE and SONG, 1999] LEE, C.-Y. and SONG, Y. (1999). Evolutionary Programming using the Levy Probability Distribution. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 886–893, Orlando, Florida, USA. Morgan Kaufmann.
- [LEE and CHO, 1999] LEE, J.-Y. and CHO, S.-B. (1999). Incorporating Human Preference into Content-based Image Retrieval Using Interactive Genetic Algorithm. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1788, Orlando, Florida, USA. Morgan Kaufmann.
- [LERENA and COURANT, 1999] LERENA, P. and COURANT, M. (1999). Complexity in Mate Choice. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1446, Orlando, Florida, USA. Morgan Kaufmann.

- [LEVENICK, 1999] LEVENICK, J. R. (1999). Swappers: Introns promote flexibility, diversity and invention. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 361–368, Orlando, Florida, USA. Morgan Kaufmann.
- [Li *et al.*, 1999] LI, Y., MAN, K. F., and TANG, K. S. (1999). Multiobjective Genetic Algorithm for Rolling-Horizon Production Planning. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1789, Orlando, Florida, USA. Morgan Kaufmann.
- [LIM and THALMANN, 1999] LIM, I. S. and THALMANN, D. (1999). How Not to Be a Black-Box: Evolution and Genetic-Engineering of High-Level Behaviours. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1329–1335, Orlando, Florida, USA. Morgan Kaufmann.
- [LIN, 1999] LIN, W.-Y. (1999). Improving Parallel Ordering of Sparse Matrices using Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1790, Orlando, Florida, USA. Morgan Kaufmann.
- [LOUGHLIN and RANJITHAN, 1999] LOUGHLIN, D. H. and RANJITHAN, S. R. (1999). Chance-Constrained Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 369–376, Orlando, Florida, USA. Morgan Kaufmann.
- [LOUIS and TANG, 1999] LOUIS, S. J. and TANG, R. (1999). Interactive Genetic Algorithms for the Traveling Salesman Problem. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 385–392, Orlando, Florida, USA. Morgan Kaufmann.
- [LOUIS and ZHANG, 1999] LOUIS, S. J. and ZHANG, Y. (1999). A Sequential Similarity Metric for Case Injected Genetic Algorithms applied to TSPs. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 377–384, Orlando, Florida, USA. Morgan Kaufmann.
- [LUKE *et al.*, 1999] LUKE, S., HAMAHASHI, S., and KITANO, H. (1999). “Genetic” Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1098–1105, Orlando, Florida, USA. Morgan Kaufmann.
- [MALEY, 1999] MALEY, C. C. (1999). Four Steps Toward Open-Ended Evolution. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1336–1343, Orlando, Florida, USA. Morgan Kaufmann.
- [MARCHIORI and ROSSI, 1999] MARCHIORI, E. and ROSSI, C. (1999). A Flipping Genetic Algorithm for Hard 3-SAT Problems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 393–400, Orlando, Florida, USA. Morgan Kaufmann.
- [MARIANO and M., 1999] MARIANO, C. E. and M., E. M. (1999). MOAQ an Ant-Q Algorithm for Multiple Objective Optimization Problems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 894–901, Orlando, Florida, USA. Morgan Kaufmann.
- [MARIN and SOLE, 1999] MARIN, J. and SOLE, R. V. (1999). Evolutionary Optimization Through Extinction Dynamics. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1344–1349, Orlando, Florida, USA. Morgan Kaufmann.

- [MARKS *et al.*, 1999] MARKS, R. E., MIDGLEY, D. F., COOPER, L. G., and SHIRAZ, G. M. (1999). Coevolution with the Genetic Algorithm: Repeated Differentiated Oligopolies. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1609–1615, Orlando, Florida, USA. Morgan Kaufmann.
- [MARTIN *et al.*, 1999] MARTIN, L., MOAL, F., and VRAIN, C. (1999). Declarative expression of biases in Genetic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 401–408, Orlando, Florida, USA. Morgan Kaufmann.
- [MATTFELD, 1999] MATTFELD, D. C. (1999). Scalable Search Spaces for Scheduling Problems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1616–1621, Orlando, Florida, USA. Morgan Kaufmann.
- [MAUTNER and BELEW, 1999] MAUTNER, C. and BELEW, R. K. (1999). Coupling Morphology and Control in a Simulated Robot. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1350–1357, Orlando, Florida, USA. Morgan Kaufmann.
- [MAXWELL and ANDERSON, 1999] MAXWELL, B. and ANDERSON, S. (1999). Training Hidden Markov Models using Population-Based Learning. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 944, Orlando, Florida, USA. Morgan Kaufmann.
- [MCKAY *et al.*, 1999] MCKAY, B., WILLIS, M., SEARSON, D., and MONTAGUE, G. (1999). Non-Linear Continuum Regression Using Genetic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1106–1111, Orlando, Florida, USA. Morgan Kaufmann.
- [MCPHEE and HOPPER, 1999] MCPHEE, N. F. and HOPPER, N. J. (1999). Analysis of genetic diversity through population history. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1112–1120, Orlando, Florida, USA. Morgan Kaufmann.
- [MENGSHOEL and GOLDBERG, 1999] MENGSHOEL, O. J. and GOLDBERG, D. E. (1999). Probabilistic Crowding: Deterministic Crowding with Probabilistic Replacement. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 409–416, Orlando, Florida, USA. Morgan Kaufmann.
- [MERZ and FREISLEBEN, 1999] MERZ, P. and FREISLEBEN, B. (1999). Genetic Algorithms for Binary Quadratic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 417–424, Orlando, Florida, USA. Morgan Kaufmann.
- [MEYSENBURG and FOSTER, 1999a] MEYSENBURG, M. M. and FOSTER, J. A. (1999a). Random Generator Quality and GP Performance. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1121–1126, Orlando, Florida, USA. Morgan Kaufmann.
- [MEYSENBURG and FOSTER, 1999b] MEYSENBURG, M. M. and FOSTER, J. A. (1999b). Randomness and GA Performance, Revisited. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 425–432, Orlando, Florida, USA. Morgan Kaufmann.

- [MIAGKIKH and III, 1999] MIAGKIKH, V. V. and III, W. F. P. (1999). An Approach to Solving Combinatorial Optimization Problems Using a Population of Reinforcement Learning Agents. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1358–1365, Orlando, Florida, USA. Morgan Kaufmann.
- [MILLER, 1999a] MILLER, J. F. (1999a). Digital Filter Design at Gate-level using Evolutionary Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1127–1134, Orlando, Florida, USA. Morgan Kaufmann.
- [MILLER, 1999b] MILLER, J. F. (1999b). An empirical study of the efficiency of learning boolean functions using a Cartesian Genetic Programming approach. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1135–1142, Orlando, Florida, USA. Morgan Kaufmann.
- [MOTA *et al.*, 1999] MOTA, C., FERREIRA, H., and ROSA, A. (1999). Independent and Simultaneous Evolution of Fuzzy Sleep Classifiers by Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1622–1629, Orlando, Florida, USA. Morgan Kaufmann.
- [MOUSTAFA *et al.*, 1999] MOUSTAFA, R. E., JONG, K. A. D., and WEGMAN, E. J. (1999). Using Genetic Algorithms For Adaptive Function Approximation and Mesh Generation. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 798, Orlando, Florida, USA. Morgan Kaufmann.
- [MUNETOMO and GOLDBERG, 1999] MUNETOMO, M. and GOLDBERG, D. E. (1999). Identifying Linkage Groups by Nonlinearity/Non-monotonicity Detection. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 433–440, Orlando, Florida, USA. Morgan Kaufmann.
- [MURATA *et al.*, 1999] MURATA, T., ISHIBUCHI, H., and GEN, M. (1999). Specification of Local Search Directions in Genetic Local Search Algorithms for Multi-Objective Optimization Problems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 441–448, Orlando, Florida, USA. Morgan Kaufmann.
- [MURUZABAL, 1999] MURUZABAL, J. (1999). Mining the Space of Generality with Uncertainty-Concerned Cooperative Classifiers. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 449–457, Orlando, Florida, USA. Morgan Kaufmann.
- [MYERS *et al.*, 1999] MYERS, J. W., LASKEY, K. B., and DEJONG, K. A. (1999). Learning Bayesian Networks from Incomplete Data using Evolutionary Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 458–465, Orlando, Florida, USA. Morgan Kaufmann.
- [NAOKI and HAJIME, 1999] NAOKI, M. and HAJIME, K. (1999). The Entropy Evaluation Method for the Thermodynamical Selection Rule. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 799, Orlando, Florida, USA. Morgan Kaufmann.
- [NAUDTS and SCHIPPERS, 1999] NAUDTS, B. and SCHIPPERS, A. (1999). A Motivated Definition of Exploitation and Exploration. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 800, Orlando, Florida, USA. Morgan Kaufmann.

- [NAULT *et al.*, 1999] NAULT, G., RIALLE, V., and MEUNIER, J.-G. (1999). PROGEN: a Genetic-Based Semi-automatic Hypertext Construction Tool-first steps and experiment. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1630–1635, Orlando, Florida, USA. Morgan Kaufmann.
- [NAVARRO *et al.*, 1999] NAVARRO, P. L. K. G., DE OLIVEIRA, P. P. B., RAMOS, F. M., and CAMPOS-VELHO, H. F. (1999). Magnetotelluric Inversion Using Problem-Specific Genetic Operators. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1580–1587, Orlando, Florida, USA. Morgan Kaufmann.
- [NEVES *et al.*, 1999a] NEVES, A., SILVA, A., and COSTA, E. (1999a). Evolutionary Path Planning for Nonholonomic Robots. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 466–472, Orlando, Florida, USA. Morgan Kaufmann.
- [NEVES *et al.*, 1999b] NEVES, J., ROCHA, M., RODRIGUES, H., BISCAIA, M., and ALVES, J. (1999b). Adaptive Strategies and the Design of Evolutionary Applications. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 473–479, Orlando, Florida, USA. Morgan Kaufmann.
- [NIAO *et al.*, 1999] NIAO, F., HERNANDEZ, G., and DASGUPTA, D. (1999). On Evolution of stochastic dynamical neural networks. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 801, Orlando, Florida, USA. Morgan Kaufmann.
- [NISHIKAWA *et al.*, 1999] NISHIKAWA, A., HAGIYA, M., and YAMAMURA, M. (1999). Virtual DNA Simulator and Protocol Design by GA. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1810–1816, Orlando, Florida, USA. Morgan Kaufmann.
- [OATES *et al.*, 1999] OATES, M., CORNE, D., and LOADER, R. (1999). Variation in EA Performance Characteristics on the Adaptive Distributed Database Management Problem. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 480–487, Orlando, Florida, USA. Morgan Kaufmann.
- [OBAYASHI *et al.*, 1999] OBAYASHI, S., SASAKI, D., and TAKEGUCHI, Y. (1999). Evolutionary Computation of Supersonic Wing Shape Optimization. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1791, Orlando, Florida, USA. Morgan Kaufmann.
- [OCHOA *et al.*, 1999] OCHOA, G., HARVEY, I., and BUXTON, H. (1999). On Recombination and Optimal Mutation Rates. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 488–495, Orlando, Florida, USA. Morgan Kaufmann.
- [OGIHARA, 1999] OGIHARA, M. (1999). Relating the Minimum Model for DNA Computation and Boolean Circuits. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1817–1821, Orlando, Florida, USA. Morgan Kaufmann.
- [OH, 1999] OH, J. C. (1999). Effects of “Physical Body” on Biased Opponent Selection in the Iterated Prisoner’s Dilemma Game. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1447, Orlando, Florida, USA. Morgan Kaufmann.

- [OLAGUE, 1999] OLAGUE, G. (1999). Analysis of Genetic Algorithms Convergence Applied to Mensuration Problems in Computer Vision. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1792, Orlando, Florida, USA. Morgan Kaufmann.
- [OLSSON, 1999] OLSSON, B. (1999). Using Evolutionary Algorithms in the Design of Protein Fingerprints. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1636–1642, Orlando, Florida, USA. Morgan Kaufmann.
- [O’NEILL and RYAN, 1999] O’NEILL, M. and RYAN, C. (1999). Under the Hood of Grammatical Evolution. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1143–1148, Orlando, Florida, USA. Morgan Kaufmann.
- [ONO *et al.*, 1999] ONO, I., KITA, H., and KOBAYASHI, S. (1999). A Robust Real-Coded Genetic Algorithm using Unimodal Normal Distribution Crossover Augmented by Uniform Crossover: Effects of Self-Adaptation of Crossover Probabilities. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 496–503, Orlando, Florida, USA. Morgan Kaufmann.
- [OPITZ, 1999] OPITZ, D. W. (1999). An Evolutionary Approach to Feature Set Selection. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 803, Orlando, Florida, USA. Morgan Kaufmann.
- [OPITZ *et al.*, 1999] OPITZ, D. W., BASAK, S. C., and GUTE, B. D. (1999). Hazard Assessment Modeling: An Evolutionary Ensemble Approach. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1643–1650, Orlando, Florida, USA. Morgan Kaufmann.
- [OPPACHER and WINEBERG, 1999] OPPACHER, F. and WINEBERG, M. (1999). The Shifting Balance Genetic Algorithm: Improving the GA in a Dynamic Environment. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 504–510, Orlando, Florida, USA. Morgan Kaufmann.
- [OPREA and FORREST, 1999] OPREA, M. and FORREST, S. (1999). How the immune system generates diversity: Pathogen space coverage with random and evolved antibody libraries. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1651–1656, Orlando, Florida, USA. Morgan Kaufmann.
- [OSTERMEIER and HANSEN, 1999] OSTERMEIER, A. and HANSEN, N. (1999). An Evolution Strategy with Coordinate System Invariant Adaptation of Arbitrary Normal Mutation Distributions Within the Concept of Mutative Strategy Parameter Control. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 902–909, Orlando, Florida, USA. Morgan Kaufmann.
- [PALAZZARI and COLI, 1999] PALAZZARI, P. and COLI, M. (1999). Evolving Probabilistic Chromosomes in Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 511–518, Orlando, Florida, USA. Morgan Kaufmann.

- [PARKER and MILLS, 1999] PARKER, G. B. and MILLS, J. W. (1999). Adaptive Hexapod Gait Control Using Anytime Learning with Fitness Biasing. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 519–524, Orlando, Florida, USA. Morgan Kaufmann.
- [PARMEE and WATSON, 1999] PARMEE, I. C. and WATSON, A. H. (1999). Preliminary Airframe Design Using Co-Evolutionary Multiobjective Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1657–1665, Orlando, Florida, USA. Morgan Kaufmann.
- [PAZOS *et al.*, 1999a] PAZOS, A., DEL RIEGO, A. S., DORADO, J., and CARDALDA, J. J. R. (1999a). Adaptive Aspects of Rhythmic Composition: Genetic Music. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1794, Orlando, Florida, USA. Morgan Kaufmann.
- [PAZOS *et al.*, 1999b] PAZOS, A., DORADO, J., SANTOS, A., and RABUNAL, J. R. (1999b). Optimization of GA Parameters to Train Recurrent ANN through Weight Adjustment and Selection of Activation Functions. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1793, Orlando, Florida, USA. Morgan Kaufmann.
- [PAZOS *et al.*, 1999c] PAZOS, A., PAZOS, J., and PATON, A. R. (1999c). DNA Assembly and Recombination for Hamiltonian Paths and Binary Words. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1822–1824, Orlando, Florida, USA. Morgan Kaufmann.
- [PELIKAN *et al.*, 1999] PELIKAN, M., GOLDBERG, D. E., and CANTU-PAZ, E. (1999). BOA: The Bayesian Optimization Algorithm. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 525–532, Orlando, Florida, USA. Morgan Kaufmann.
- [PEREIRA, 1999] PEREIRA, A. G. (1999). Road Design by Evolutionary Modelling of Routes. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1778, Orlando, Florida, USA. Morgan Kaufmann.
- [PEREIRA *et al.*, 1999] PEREIRA, F. B., MACHADO, P., COSTA, E., and CARDOSO, A. (1999). Graph Based Crossover-A Case Study with the Busy Beaver Problem. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1149–1155, Orlando, Florida, USA. Morgan Kaufmann.
- [PERKINS, 1999] PERKINS, S. (1999). Evolving Effective Visual Tracking through Shaping. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1156–1161, Orlando, Florida, USA. Morgan Kaufmann.
- [PERRENOUD *et al.*, 1999] PERRENOUD, M., TOMASSINI, M., SIPPER, M., and ZOLLA, M. (1999). Evolving High-Quality Random Number Generators. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 804, Orlando, Florida, USA. Morgan Kaufmann.
- [PETROWSKI and HAMIDA, 1999] PETROWSKI, A. and HAMIDA, S. B. (1999). A Logarithmic Mutation Operator to Solve Constrained Optimization Problems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings*

- of the *Genetic and Evolutionary Computation Conference*, volume 1, page 805, Orlando, Florida, USA. Morgan Kaufmann.
- [PINDOR, 1999] PINDOR, A. J. (1999). Using Genetic Algorithm to manipulate polynomial expressions. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1666–1671, Orlando, Florida, USA. Morgan Kaufmann.
- [PLAGIANAKOS and VRAHATIS, 1999] PLAGIANAKOS, V. P. and VRAHATIS, M. N. (1999). Training Neural Networks with 3-bit Integer Weights. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 910–915, Orlando, Florida, USA. Morgan Kaufmann.
- [POHLHEIM, 1999] POHLHEIM, H. (1999). Visualization of Evolutionary Algorithms - Set of Standard Techniques and Multidimensional Visualization. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 533–540, Orlando, Florida, USA. Morgan Kaufmann.
- [POHLHEIM and HEISSNER, 1999] POHLHEIM, H. and HEISSNER, A. (1999). Optimal Control of Greenhouse Climate using Real-World Weather Data and Evolutionary Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1672–1677, Orlando, Florida, USA. Morgan Kaufmann.
- [POHLHEIM and WEGENER, 1999] POHLHEIM, H. and WEGENER, J. (1999). Testing the Temporal Behavior of Real-Time Software Modules using Extended Evolutionary Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1795, Orlando, Florida, USA. Morgan Kaufmann.
- [POLI, 1999] POLI, R. (1999). Schema Theorems without Expectations. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 806, Orlando, Florida, USA. Morgan Kaufmann.
- [POLI *et al.*, 1999] POLI, R., PAGE, J., and LANGDON, W. B. (1999). Smooth Uniform Crossover, Sub-Machine Code GP and Demes: A Recipe For Solving High-Order Boolean Parity Problems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1162–1169, Orlando, Florida, USA. Morgan Kaufmann.
- [POON, 1999] POON, J. (1999). Problem Solving: Search, Exploration and Co-evolution. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 541–548, Orlando, Florida, USA. Morgan Kaufmann.
- [PORTER *et al.*, 1999] PORTER, M. A., WILLIS, M. J., and MONTAGUE, G. A. (1999). Modelling Antibiotic Production using Standard and Sequential Hybridised Symbolic Annealing. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1796, Orlando, Florida, USA. Morgan Kaufmann.
- [PRATI HAR *et al.*, 1999] PRATI HAR, D. K., DEB, K., and GHOSH, A. (1999). Design of a Genetic-Fuzzy System for Planning Optimal Path and Gait Simultaneously of a Six-legged Robot. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1678–1684, Orlando, Florida, USA. Morgan Kaufmann.

- [PUJOL and POLI, 1999] PUJOL, J. C. F. and POLI, R. (1999). Evolution of Neural Networks Using Weight Mapping. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1170–1177, Orlando, Florida, USA. Morgan Kaufmann.
- [PUNYA and DEO, 1999] PUNYA, S. and DEO, B. (1999). Prediction of Silicon Content of Hot Metal Using Fuzzy-GA Regression. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1685–1690, Orlando, Florida, USA. Morgan Kaufmann.
- [RADI and POLI, 1999] RADI, A. and POLI, R. (1999). Evolutionary Discovery of Learning Rules for Feedforward Neural Networks with Step Activation Function. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1178–1183, Orlando, Florida, USA. Morgan Kaufmann.
- [RAICH and GHABOUSSI, 1999] RAICH, A. M. and GHABOUSSI, J. (1999). Frame Design Synthesis Using Implicit Redundant Genetic Algorithm. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1691–1698, Orlando, Florida, USA. Morgan Kaufmann.
- [RAIDL, 1999] RAIDL, G. R. (1999). An Evolutionary Approach to Point-Feature Label Placement. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 807, Orlando, Florida, USA. Morgan Kaufmann.
- [RANA, 1999] RANA, S. (1999). The Distributional Biases of Crossover Operators. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 549–556, Orlando, Florida, USA. Morgan Kaufmann.
- [RECHSTEINER and BEDAU, 1999] RECHSTEINER, A. and BEDAU, M. A. (1999). A Generic Neutral Model for Measuring Excess Evolutionary Activity of Genotypes. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1366–1373, Orlando, Florida, USA. Morgan Kaufmann.
- [REN *et al.*, 1999] REN, F., TANAKA, H., OKAYAMA, T., and GOJOBORI, T. (1999). Reconstructing Molecular Phylogenetic Tree with Multifurcation by Using Minimum Complexity Principle. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1825–1828, Orlando, Florida, USA. Morgan Kaufmann.
- [RODRIGUEZ, 1999] RODRIGUEZ, A. O. (1999). Finding Wavelet Packet Bases with an Estimation Distribution Algorithm. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 802, Orlando, Florida, USA. Morgan Kaufmann.
- [ROSE *et al.*, 1999] ROSE, J. A., DEATON, R. J., FRANCESCHETTI, D. R., GARZON, M., and JR., S. E. S. (1999). A Statistical Mechanical Treatment of Error in the Annealing Biostep of DNA Computation. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1829–1834, Orlando, Florida, USA. Morgan Kaufmann.
- [ROSETE-SUAREZ *et al.*, 1999] ROSETE-SUAREZ, A., OCHOA-RODRIGUEZ, A., and SEBAG, M. (1999). Automatic Graph Drawing and Stochastic Hill Climbing. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1699–1706, Orlando, Florida, USA. Morgan Kaufmann.

- [ROSS, 1999] ROSS, B. J. (1999). Logic-based Genetic Programming with Definite Clause Translation Grammars. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1236, Orlando, Florida, USA. Morgan Kaufmann.
- [ROWE, 1999] ROWE, J. E. (1999). Finding attractors for periodic fitness functions. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 557–563, Orlando, Florida, USA. Morgan Kaufmann.
- [RYAN *et al.*, 1999] RYAN, M., DEBUSE, J., SMITH, G., and WHITTLEY, I. (1999). A Hybrid Genetic Algorithm for the Fixed Channel Assignment Problem. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1707–1714, Orlando, Florida, USA. Morgan Kaufmann.
- [SALIM, 1999] SALIM, V. (1999). Genetic Algorithms in Road Investment Planning with Computational Comparisons to Simulated Annealing and Heuristics. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 808, Orlando, Florida, USA. Morgan Kaufmann.
- [SALMAN *et al.*, 1999] SALMAN, A. A., MEHROTRA, K., and MOHAN, C. K. (1999). Linkage Crossover For Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 564–571, Orlando, Florida, USA. Morgan Kaufmann.
- [SALUSTOWICZ and SCHMIDHUBER, 1999] SALUSTOWICZ, R. P. and SCHMIDHUBER, J. (1999). Sequence Learning Through PIPE and Automatic Task Decomposition. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1184–1191, Orlando, Florida, USA. Morgan Kaufmann.
- [SARMA and JONG, 1999] SARMA, J. and JONG, K. D. (1999). The Behavior of Spatially Distributed Evolutionary Algorithms in Non-Stationary Environments. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 572–578, Orlando, Florida, USA. Morgan Kaufmann.
- [SAWAI and ADACHI, 1999] SAWAI, H. and ADACHI, S. (1999). Parallel Distributed Processing of a Parameter-free Hierarchical Migration Methods. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 579–586, Orlando, Florida, USA. Morgan Kaufmann.
- [SAXON and BARRY, 1999] SAXON, S. and BARRY, A. (1999). XCS and the Monk’s Problems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 809, Orlando, Florida, USA. Morgan Kaufmann.
- [SCHLEIFFER and SEBASTIAN, 1999] SCHLEIFFER, R. and SEBASTIAN, H.-J. (1999). A Fuzzy Neighborhood Based GA in Fuzzy Engineering Design. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1797, Orlando, Florida, USA. Morgan Kaufmann.
- [SENIN *et al.*, 1999] SENIN, N., WALLACE, D. R., and BORLAND, N. (1999). Object-based Design Modeling and Optimization with Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1715–1722, Orlando, Florida, USA. Morgan Kaufmann.

- [SEREDYNSKI and JANIKOW, 1999] SEREDYNSKI, F. and JANIKOW, C. Z. (1999). Designing Cellular Automata-based Scheduling Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 587–594, Orlando, Florida, USA. Morgan Kaufmann.
- [SHANAHAN *et al.*, 1999] SHANAHAN, J. G., BALDWIN, J. F., and MARTIN, T. P. (1999). Constructive Induction of Fuzzy Cartesian Granule Feature Models using Genetic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1237, Orlando, Florida, USA. Morgan Kaufmann.
- [SHARPE, 1999a] SHARPE, O. (1999a). Continuing Beyond NFL: Dissecting real world problems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 595–602, Orlando, Florida, USA. Morgan Kaufmann.
- [SHARPE, 1999b] SHARPE, O. (1999b). Persistence, Search and Autopoiesis. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1374–1381, Orlando, Florida, USA. Morgan Kaufmann.
- [SHIMADA and ANZAI, 1999] SHIMADA, S. and ANZAI, Y. (1999). Fast and Robust Convergence of Chained Classifiers by Generating Operons through Niche Formation. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 810, Orlando, Florida, USA. Morgan Kaufmann.
- [SHIMODAIRA, 1999] SHIMODAIRA, H. (1999). A Diversity Control Oriented Genetic Algorithm (DCGA): Development and Experimental Results. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 603–611, Orlando, Florida, USA. Morgan Kaufmann.
- [SILVA *et al.*, 1999] SILVA, A., NEVES, A., and COSTA, E. (1999). Genetically Programming Networks to Evolve Memory Mechanisms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1448, Orlando, Florida, USA. Morgan Kaufmann.
- [SIMOES and COSTA, 1999] SIMOES, A. B. and COSTA, E. (1999). Transposition versus Crossover: An Empirical Study. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 612–619, Orlando, Florida, USA. Morgan Kaufmann.
- [SINCLAIR, 1999] SINCLAIR, M. C. (1999). Optical Mesh Network Topology Design using Node-Pair Encoding Genetic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1192–1197, Orlando, Florida, USA. Morgan Kaufmann.
- [SMITH, 1999] SMITH, C. E. (1999). An Application of Genetic Programming To Investment System Optimization. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1798, Orlando, Florida, USA. Morgan Kaufmann.
- [SOMEYA and YAMAMURA, 1999] SOMEYA, H. and YAMAMURA, M. (1999). A Genetic Algorithm without Parameters Tuning and its Application on the Floorplan Design Problem. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 620–627, Orlando, Florida, USA. Morgan Kaufmann.

- [SONG and CHO, 1999] SONG, G.-B. and CHO, S.-B. (1999). Adaptive Behavior of Incrementally Evolved Neural Networks based on Cellular Automata. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1449, Orlando, Florida, USA. Morgan Kaufmann.
- [SOULE, 1999] SOULE, T. (1999). Voting Teams: A cooperative approach to non-typical problems using genetic programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 916–922, Orlando, Florida, USA. Morgan Kaufmann.
- [SPALANZANI *et al.*, 1999] SPALANZANI, A., SELOUANI, S. A., and KABRE, H. (1999). Evolutionary Algorithms for Optimizing Speech Data Projection. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1799, Orlando, Florida, USA. Morgan Kaufmann.
- [STEINBERG and RASHEED, 1999] STEINBERG, L. and RASHEED, K. (1999). Optimization by Searching a Tree of Populations. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1723–1730, Orlando, Florida, USA. Morgan Kaufmann.
- [STEPHENS, 1999] STEPHENS, C. R. (1999). Effect of Mutation and Recombination on the Genotype-Phenotype Map. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1382–1389, Orlando, Florida, USA. Morgan Kaufmann.
- [STEWART and ROSIN, 1999] STEWART, R. and ROSIN, P. L. (1999). Neural network construction using Voronoi dissections. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 811, Orlando, Florida, USA. Morgan Kaufmann.
- [STOICA *et al.*, 1999] STOICA, A., LAZARO, C.-S., KEYMEULEN, D., and HAYWORTH, K. (1999). Evolution of CMOS Circuits in Simulations and Directly in Hardware on a Programmable Chip. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1198–1203, Orlando, Florida, USA. Morgan Kaufmann.
- [STURGILL and PANT, 1999] STURGILL, D. and PANT, G. (1999). Evaluation Criteria for Genetically-Tuned Problem-Solving Experts. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1390–1397, Orlando, Florida, USA. Morgan Kaufmann.
- [SUGAI, 1999] SUGAI, K. (1999). Stochastic Evolution on the Hierarchical Population. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 628–634, Orlando, Florida, USA. Morgan Kaufmann.
- [SUZUKI and TANAKA, 1999] SUZUKI, Y. and TANAKA, H. (1999). Practical and Theoretical Investigation of a Collective work. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1450, Orlando, Florida, USA. Morgan Kaufmann.
- [SWIFT and LIU, 1999] SWIFT, S. and LIU, X. (1999). Modelling and Forecasting of Glaucomatous Visual Fields Using Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1731–1737, Orlando, Florida, USA. Morgan Kaufmann.

- [TAKADAMA *et al.*, 1999] TAKADAMA, K., TERANO, T., and SHIMOHARA, K. (1999). How to Design Good Learning Agents in Organization. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1398–1405, Orlando, Florida, USA. Morgan Kaufmann.
- [TAKAHASHI *et al.*, 1999] TAKAHASHI, E., MURAKAWA, M., TODA, K., and HIGUCHI, T. (1999). An Evolvable-hardware-based Clock Timing Architecture towards GigaHz Digital Systems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1204–1210, Orlando, Florida, USA. Morgan Kaufmann.
- [TERASHIMA-MARIN *et al.*, 1999] TERASHIMA-MARIN, H., ROSS, P., and VALENZUELA-RENDON, M. (1999). Evolution of Constraint Satisfaction Strategies in Examination Timetabling. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 635–642, Orlando, Florida, USA. Morgan Kaufmann.
- [THIERENS, 1999] THIERENS, D. (1999). Estimating the Significant Non-Linearities in the Genome Problem-Coding. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 643–648, Orlando, Florida, USA. Morgan Kaufmann.
- [TIAN *et al.*, 1999] TIAN, Y., SANNOMIYA, N., and YOKOKURA, T. (1999). A Simulation Study on Adaptive Behavior of Fish Schools under Environmental Variation. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1451, Orlando, Florida, USA. Morgan Kaufmann.
- [TODD and SEN, 1999] TODD, D. S. and SEN, P. (1999). Directed Multiple Objective Search of Design Spaces Using Genetic Algorithms and Neural Networks. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1738–1743, Orlando, Florida, USA. Morgan Kaufmann.
- [TOMLINSON and BULL, 1999] TOMLINSON, A. and BULL, L. (1999). On Corporate Classifier Systems: Increasing the Benefits of Rule Linkage. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 649–656, Orlando, Florida, USA. Morgan Kaufmann.
- [TRENAMAN, 1999] TRENAMAN, A. (1999). Further Investigations into the Evolution of Agents with Concurrent Genetic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1452, Orlando, Florida, USA. Morgan Kaufmann.
- [TSUTSUI *et al.*, 1999] TSUTSUI, S., YAMAMURA, M., and HIGUCHI, T. (1999). Multi-parent Recombination with Simplex Crossover in Real Coded Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 657–664, Orlando, Florida, USA. Morgan Kaufmann.
- [TUCKER and LIU, 1999] TUCKER, A. and LIU, X. (1999). Extending Evolutionary Programming Methods to the Learning of Dynamic Bayesian Networks. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 923–929, Orlando, Florida, USA. Morgan Kaufmann.
- [UCHIBE *et al.*, 1999] UCHIBE, E., NAKAMURA, M., and ASADA, M. (1999). Cooperative and Competitive Behavior Acquisition for Mobile Robots through Co-evolution. In BANZHAF, W.,

- DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1406–1413, Orlando, Florida, USA. Morgan Kaufmann.
- [UNO and NAMATAME, 1999] UNO, K. and NAMATAME, A. (1999). Evolutionary Behaviors Emerged through Strategic Interactions in the Large. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1414–1421, Orlando, Florida, USA. Morgan Kaufmann.
- [VALENZUELA, 1999] VALENZUELA, C. L. (1999). Evolutionary Divide and Conquer (II) for the TSP. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1744–1749, Orlando, Florida, USA. Morgan Kaufmann.
- [VALLEJO and RAMOS, 1999] VALLEJO, E. E. and RAMOS, F. (1999). Result-Sharing: A Framework for Cooperation in Genetic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1238, Orlando, Florida, USA. Morgan Kaufmann.
- [VAN DIJK *et al.*, 1999] VAN DIJK, S., THIERENS, D., and DE BERG, M. (1999). On The Design of Genetic Algorithms for Geographical Applications. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 188–195, Orlando, Florida, USA. Morgan Kaufmann.
- [VEKARIA and CLACK, 1999] VEKARIA, K. and CLACK, C. (1999). Biases Introduced by Adaptive Recombination Operators. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 670–677, Orlando, Florida, USA. Morgan Kaufmann.
- [VOSS and FOLEY, 1999] VOSS, M. S. and FOLEY, C. M. (1999). Evolutionary Algorithm For Structural Optimization. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 678–685, Orlando, Florida, USA. Morgan Kaufmann.
- [VRAJITORU, 1999] VRAJITORU, D. (1999). Genetic Programming Operators Applied to Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 686–693, Orlando, Florida, USA. Morgan Kaufmann.
- [VRIEND, 1999] VRIEND, N. J. (1999). The Difference between Individual and Population Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 812, Orlando, Florida, USA. Morgan Kaufmann.
- [WAGNER, 1999] WAGNER, K. (1999). Habitat, Communication and Cooperative Strategies. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 694–701, Orlando, Florida, USA. Morgan Kaufmann.
- [WALKER and MIGLINO, 1999] WALKER, R. and MIGLINO, O. (1999). Simulating exploratory behavior in evolving Neural Networks. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1422–1428, Orlando, Florida, USA. Morgan Kaufmann.
- [WALKER, 1999] WALKER, R. L. (1999). Assessment of the Web using Genetic Programming. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1750–1755, Orlando, Florida, USA. Morgan Kaufmann.

- [WALSH, 1999] WALSH, P. (1999). A Functional Style and Fitness Evaluation Scheme for Inducting High Level Programs. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1211–1216, Orlando, Florida, USA. Morgan Kaufmann.
- [WATABE and KAWAOKA, 1999] WATABE, H. and KAWAOKA, T. (1999). Solving Combinatorial Optimization Problems with Multi-Step Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 813, Orlando, Florida, USA. Morgan Kaufmann.
- [WATSON, 1999] WATSON, J.-P. (1999). A Performance Assessment of Modern Niching Methods for Parameter Optimization Problems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 702–709, Orlando, Florida, USA. Morgan Kaufmann.
- [WATSON and POLLACK, 1999] WATSON, R. A. and POLLACK, J. B. (1999). Incremental Commitment in Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 710–717, Orlando, Florida, USA. Morgan Kaufmann.
- [WEISS, 1999] WEISS, G. M. (1999). Timeweaver: a Genetic Algorithm for Identifying Predictive Patterns in Sequences of Events. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 718–725, Orlando, Florida, USA. Morgan Kaufmann.
- [WHITE and PAGUREK, 1999] WHITE, T. and PAGUREK, B. (1999). Application Oriented Routing with Biologically-inspired Agents. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1453, Orlando, Florida, USA. Morgan Kaufmann.
- [WHITLEY, 1999] WHITLEY, D. (1999). A Free Lunch Proof for Gray versus Binary Encodings. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 726–733, Orlando, Florida, USA. Morgan Kaufmann.
- [WILLIAMS and WILLIAMS, 1999] WILLIAMS, K. P. and WILLIAMS, S. A. (1999). Two Evolutionary Representations for Automatic Parallelization. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1429–1436, Orlando, Florida, USA. Morgan Kaufmann.
- [WONG *et al.*, 1999] WONG, K. P., YURYEVICH, J., and LI, A. (1999). Evolutionary Programming Based Method for Evaluation of Power Flow. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1756–1761, Orlando, Florida, USA. Morgan Kaufmann.
- [WOOD *et al.*, 1999] WOOD, D., CHEN, J., LEMIEUX, E. A. B., and CEDENO, W. (1999). A DNA Implementation of the Max 1s Problem. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1835–1842, Orlando, Florida, USA. Morgan Kaufmann.
- [WRIGHT and ZHAO, 1999] WRIGHT, A. H. and ZHAO, Y. (1999). Markov Chain Models of Genetic Algorithms. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 734–741, Orlando, Florida, USA. Morgan Kaufmann.

- [YANG *et al.*, 1999a] YANG, C., DASGUPTA, D., and CAO, Y. (1999a). A Group Encoding Technique for Set Partitioning Problems. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 742–749, Orlando, Florida, USA. Morgan Kaufmann.
- [YANG *et al.*, 1999b] YANG, J., TIYYAGURA, A., CHEN, F., and HONAVAR, V. (1999b). Feature Subset Selection for Rule Induction Using RIPPER. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, page 1800, Orlando, Florida, USA. Morgan Kaufmann.
- [YANG and KAO, 1999] YANG, J.-M. and KAO, C.-Y. (1999). An Evolutionary Algorithm for Continuous Global optimization. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 930–938, Orlando, Florida, USA. Morgan Kaufmann.
- [YEN *et al.*, 1999] YEN, J., YANG, L., LEE, B., and LIAO, J. C. (1999). A Supervisory Simplex-GA Approach for Metabolic Model Optimization. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 750–757, Orlando, Florida, USA. Morgan Kaufmann.
- [YOSHIMI and TAURA, 1999] YOSHIMI, T. and TAURA, T. (1999). A Computational Model of a Viewpoint-Forming Process in a Hierarchical Classifier System. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, pages 758–766, Orlando, Florida, USA. Morgan Kaufmann.
- [ZAHARAN *et al.*, 1999] ZAHARAN, M. M., WAHAB, A. H. A., and SHAHEEN, S. I. (1999). Adaptive Genetic Algorithm for Multiprocessor Scheduling. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 1, page 814, Orlando, Florida, USA. Morgan Kaufmann.
- [ZHANG and JOUNG, 1999] ZHANG, B.-T. and JOUNG, J.-G. (1999). Genetic Programming with Incremental Data Inheritance. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1217–1224, Orlando, Florida, USA. Morgan Kaufmann.
- [ZITZLER *et al.*, 1999] ZITZLER, E., TEICH, J., and BHATTACHARYYA, S. S. (1999). Evolutionary Algorithm Based Exploration of Software Schedules for Digital Signal Processors. In BANZHAF, W., DAIDA, J., EIBEN, A. E., GARZON, M. H., HONAVAR, V., JAKIELA, M., and SMITH, R. E., editors, *Proceedings of the Genetic and Evolutionary Computation Conference*, volume 2, pages 1762–1770, Orlando, Florida, USA. Morgan Kaufmann.