

Список литературы

- [Abbattista *et al.*(1999)Abbattista, Carofiglio and Koppen] Abbattista, F., Carofiglio, V. and Koppen, M. (1999) ‘Scout algorithms and genetic algorithms: A comparative study’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 769. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-803.pdf>.
- [Adamopoulos *et al.*(1999)Adamopoulos, Georgopoulos, Likothanassis and Anninos] 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1457–1462. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-767.pdf>.
- [Agapie(1999)] Agapie, A. (1999) ‘Random systems with complete connections’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 770. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-862.ps>.
- [Aguilar and Miranda(1999)] Aguilar, J. and Miranda, P. (1999) ‘Approaches based on genetic algorithms for multiobjective optimization problems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 3–10. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-873.pdf>.
- [Aguilar *et al.*(1999)Aguilar, Riquelme and Toro] Aguilar, J., Riquelme, J. and Toro, M. (1999) ‘Three geometric approaches for representing decision rules in a supervised learning system’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 771. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-391.pdf>.
- [Aguirre *et al.*(1999)Aguirre, Tanaka and Sugimura] Aguirre, H.E., Tanaka, K. and Sugimura, T. (1999) ‘Cooperative crossover and mutation operators in genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 772.
- [Ahluwalia and Bull(1999a)] Ahluwalia, M. and Bull, L. (1999a) ‘Coevolving functions in genetic programming: Classification using k-nearest-neighbour’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 947–952. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-413.ps>.
- [Ahluwalia and Bull(1999b)] Ahluwalia, M. and Bull, L. (1999b) ‘A genetic programming-based classifier system’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 11–18.
- [Alba *et al.*(1999)Alba, Cotta and Troya] 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 773. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Ga-808.pdf>.

- [Aparicio *et al.*(1999)Aparicio, Correia and Moura-Pires] Aparicio, J.N., Correia, L. and Moura-Pires, F. (1999) ‘Populations are multisets-plato’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1845–1850. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/MP-603.ps>.
- [Bael *et al.*(1999)Bael, Devogelaere and Rijckaert] Bael, P.V., Devogelaere, D. and Rijckaert, M. (1999) ‘The job shop problem solved with simple, basic evolutionary search elements’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 665–669.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 774. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Bagnall1999b.ps.gz>.
- [Barry(1999a)] Barry, A. (1999a) ‘Aliasing in xcs and the consecutive state problem: 1 - effects’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 19–26. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-317.pdf>.
- [Barry(1999b)] Barry, A. (1999b) ‘Aliasing in xcs and the consecutive state problem: 2 - solutions’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 27–34. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-336.pdf>.
- [Battle *et al.*(1999)Battle, Homaifar, Tunstel and Dozier] Battle, D., Homaifar, A., Tunstel, E. and Dozier, G. (1999) ‘Genetic programming of full knowledge bases for fuzzy logic controllers’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1463–1468. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-730.pdf>.
- [Beck and Parmee(1999)] Beck, M.A. and Parmee, I.C. (1999) ‘Extending the bounds of the search space: A multi-population approach’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1469–1476. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-762.pdf>.
- [Beligiannis *et al.*(1999)Beligiannis, Demiris and Likothanassis] Beligiannis, G.N., Demiris, E.N. and Likothanassis, S.D. (1999) ‘Evolutionary multimodel partitioning filters for nonlinear systems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1227. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-452.ps>.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 35–43. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-329.ps>.
- [Berger *et al.*(1999)Berger, Sassi and Salois] Berger, J., Sassi, M. and Salois, M. (1999) ‘A hybrid genetic algorithm for the vehicle routing problem with time windows and itinerary constraints’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 44–51.

- [Best(1999)] Best, M.L. (1999) ‘Coevolving mutualists guide simulated evolution’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 941.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 817–824. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/beyer_GECCO99.ps.gz.
- [Boettcher and Percus(1999)] Boettcher, S. and Percus, A.G. (1999) ‘Extremal optimization: Methods derived from co-evolution’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 825–832. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/9904056.pdf>.
- [Bojarczuk et al.(1999)Bojarczuk, Lopes and Freitas] 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 953–958. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-417.pdf>.
- [Bonarini(1999)] Bonarini, A. (1999) ‘Comparing reinforcement learning algorithms applied to crisp and fuzzy learning classifier systems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 52–59. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-876.pdf>.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1491–1497. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-765.pdf>.
- [Bosman and Thierens(1999)] Bosman, P.A.N. and Thierens, D. (1999) ‘Linkage information processing in distribution estimation algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 60–67. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-812.pdf>.
- [Brameier et al.(1999)Brameier, Hoffmann, Nordin, Banzhaf and Francone] Brameier, M., Hoffmann, F., Nordin, P., Banzhaf, W. and Francone, F. (1999) ‘Parallel machine code genetic programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1228. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-439.pdf>.
- [Branke et al.(1999)Branke, Cutaia and Dold] Branke, J., Cutaia, M. and Dold, H. (1999) ‘Reducing genetic drift in steady state evolutionary algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 68–74.
- [Brizuela and Sannomiya(1999)] Brizuela, C.A. and Sannomiya, N. (1999) ‘A diversity study in genetic algorithms for job shop scheduling problems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary*

Computation Conference, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 75–82. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-333.pdf>.

- [Bull(1999)] Bull, L. (1999) ‘On using zcs in a simulated continuous double-auction market’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 83–90. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-806.ps>.
- [Calderoni(1999)] Calderoni, S. (1999) ‘Behavior-based control system in multiagent domain’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1439. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-048.pdf>.
- [Cangelosi(1999)] Cangelosi, A. (1999) ‘Heterochrony and adaptation in developing neural networks’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1241–1248. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-008.pdf>.
- [Cantu-Paz(1999a)] Cantu-Paz, E. (1999a) ‘Migration policies and takeover times in genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 775. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/gecco99-migpolicy.pdf>.
- [Cantu-Paz(1999b)] Cantu-Paz, E. (1999b) ‘Topologies, migration rates, and multi-population parallel genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 91–98. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/gecco99-topologies.pdf>.
- [Cao et al.(1999a)Cao, Kang and Chen] Cao, H., Kang, L. and Chen, Y. (1999a) ‘Evolutionary modeling of ordinary differential equations for dynamic systems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 959–965. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-401.pdf>.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 99–105.
- [Cao et al.(1999b)Cao, (Francis), Lawrence and Yeong] Cao, L., (Francis), T.E.H., Lawrence, M. and Yeong, W.C. (1999b) ‘Classification of the market states using neural network’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 776.
- [Castillo et al.(1999)Castillo, Rivas, Merelo, Gonzalez, Prieto and Romero] 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 942. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/G-Prop-III_poster.ps.gz.

- [Catral *et al.*(1999)Catral, Oppacher and Deugo] Catral, R., Oppacher, F. and Deugo, D. (1999) ‘Rule acquisition with a genetic algorithm’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 778.
- [Chan *et al.*(1999)Chan, Ngan and Rad] 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 106–113.
- [Chen *et al.*(1999a)Chen, Guerra-Salcedo and Smith] Chen, S., Guerra-Salcedo, C. and Smith, S.F. (1999a) ‘Non-standard crossover for a standard representation – commonality-based feature subset selection’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 129–134. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-828.ps>.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 135–140. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-829.pdf>.
- [Chen and Smith(1999b)] Chen, S. and Smith, S.F. (1999b) ‘Introducing a new advantage of crossover: Commonality-based selection’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 122–128. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-827.pdf>.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 966. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-425c.pdf>.
- [Chen *et al.*(1999b)Chen, Lin and Tsao] 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 114–121. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-397.pdf>.
- [Chikara and Masayasu(1999)] Chikara, M. and Masayasu, A. (1999) ‘Collaborative learning agents with structural classifier systems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 777. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-859.pdf>.
- [Chong and Langdon(1999)] Chong, F.S. and Langdon, W.B. (1999) ‘Java based distributed genetic programming on the internet’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1229. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-423.pdf>.
- [Chu *et al.*(1999)Chu, Premkumar, Chou and Sun] Chu, C.H., Premkumar, G., Chou, C. and Sun, J. (1999) ‘Dynamic degree constrained network design: A genetic algorithm approach’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando,

- Florida, USA: Morgan Kaufmann, pp. 141–148. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-846.pdf>.
- [Coletti *et al.*(1999)Coletti, Lash, Michalski, Mandsager and Moustafa] Coletti, M., Lash, T.D., Michalski, R., Mandsager, C. and Moustafa, R. (1999) ‘Comparing performance of the learnable evolution model and genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 779. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-386.pdf>.
- [Collet *et al.*(1999)Collet, Lutton, Raynal and Schoenauer] Collet, P., Lutton, E., Raynal, F. and Schoenauer, M. (1999) ‘Individual gp: an alternative viewpoint for the resolution of complex problems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 974–981. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-467.pdf>.
- [Collins and Ryan(1999)] Collins, J.J. and Ryan, C. (1999) ‘Non-stationary function optimization using polygenic inheritance’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 781. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-398.pdf>.
- [Collins *et al.*(1999)Collins, Sheehan and Casey] Collins, J.J., Sheehan, L. and Casey, C. (1999) ‘Genetic planner for a mobile robot navigation system’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 782. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-399.pdf>.
- [Collins(1999)] Collins, T.D. (1999) ‘A comparison of search space visualization techniques’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 780. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-395.ps>.
- [Corney and Parmee(1999)] Corney, D. and Parmee, I. (1999) ‘N-dimensional surface mapping using genetic programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1230. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-424.pdf>.
- [Costa and Oliveira(1999)] Costa, L. and Oliveira, P. (1999) ‘Gas in global optimization of mixed integer non-linear problems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1773. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-740.ps>.
- [Cotta *et al.*(1999)Cotta, Alba and Troya] Cotta, C., Alba, E. and Troya, J.M. (1999) ‘Improving the scalability of dynastically optimal forma recombination by tuning the granularity of the representation’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 783. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Ga-800.pdf>.
- [Crawford *et al.*(1999)Crawford, McCormack and MacAllister] Crawford, K.D., McCormack, M.D. and MacAllister, D.J. (1999) ‘Modified gradient techniques for normalized solution vectors’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1498–1503. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-720.pdf>.

- [Cvetkovic and Parmee(1999)] Cvetkovic, D. and Parmee, I.C. (1999) ‘Use of preferences for ga-based multi-objective optimisation’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1504–1509. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-764.ps>.
- [Daida *et al.*(1999a)] Daida, Ampy, Ratanasavetavadhana, Li and Chaudhri] 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1851–1858. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/MP-604.pdf>.
- [Daida *et al.*(1999b)] Daida, Polito, Stanhope, Bertram, Khoo and Chaudhary] 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 982–989. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-444.pdf>.
- [Dasgupta *et al.*(1999)] Dasgupta, Cao and Yang] Dasgupta, D., Cao, Y. and Yang, C. (1999) ‘An immunogenetic approach to spectra recognition’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 149–155.
- [Davenport *et al.*(1999)] Davenport, Ryan and Rayward-Smith] Davenport, G.F., Ryan, M.D. and Rayward-Smith, V.J. (1999) ‘Rule induction using a reverse polish representation’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 990–995. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-433.pdf>.
- [Deaton(1999)] Deaton, R. (1999) ‘Reaction temperature constraints in dna computing’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1803–1804. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/dn-101.pdf>.
- [Deb(1999)] Deb, K. (1999) ‘Construction of test problems for multi-objective optimization’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 164–171.
- [Deb and Beyer(1999)] Deb, K. and Beyer, H.G. (1999) ‘Self-adaptation in real-parameter genetic algorithms with simulated binary crossover’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 172–179. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/deb_gecco1.ps.gz.
- [Delgado *et al.*(1999)] Delgado, Zuben and Gomide] Delgado, M., Zuben, F.V. and Gomide, F. (1999) ‘Modular and hierarchical evolutionary design of fuzzy systems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 180–187. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-850.pdf>.
- [Desjarlais *et al.*(1999)] Desjarlais, Akbarzadeh-T. and Wright] Desjarlais, L.M., Akbarzadeh-T., M.R. and Wright, C.W. (1999) ‘Control system optimization using genetic algorithms within the softlab

- toolkit’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1774. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-781.pdf>.
- [Dessi *et al.*(1999)Dessi, Giani and Starita] Dessi, A., Giani, A. and Starita, A. (1999) ‘An analysis of automatic subroutine discovery in genetic programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 996–1001. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-432.pdf>.
- [Digby and Seffens(1999)] Digby, D. and Seffens, W. (1999) ‘Evolutionary algorithm analysis of the biological genetic codes’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1440. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-013.pdf>.
- [van Dijk *et al.*(1999)van Dijk, Thierens and de Berg] van Dijk, S., Thierens, D. and de Berg, M. (1999) ‘On the design of genetic algorithms for geographical applications’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 188–195. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-809.pdf>.
- [Dimopoulos and Zalzal(1999)] Dimopoulos, C. and Zalzal, A.M. (1999) ‘Evolving scheduling policies through a genetic programming framework’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1231. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-448.pdf>.
- [Dittrich *et al.*(1999)Dittrich, Skusa, Kantschik and Banzhaf] Dittrich, P., Skusa, A., Kantschik, W. and Banzhaf, W. (1999) ‘Dynamical properties of the fitness landscape of a gp controlled random morphology robot’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1002–1008. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-454.pdf>.
- [Droste *et al.*(1999)Droste, Jansen and Wegener] Droste, S., Jansen, T. and Wegener, I. (1999) ‘Perhaps not a free lunch but at least a free appetizer’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 833–839. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/droste98perhaps.pdf>.
- [Dupas *et al.*(1999)Dupas, Cavory and Goncalves] Dupas, R., Cavory, G. and Goncalves, G. (1999) ‘Real-world applications. optimising the throughput of a manufacturing production line using a genetic algortihm’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1775. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-717.pdf>.
- [East(1999)] East, E.W. (1999) ‘Infrastructure work order planning using genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1510–1516. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-728.pdf>.
- [Ebner and Zell(1999)] Ebner, M. and Zell, A. (1999) ‘Evolving a behavior-based control architecture from simulations to the real world’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary*

- Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1009–1014. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-414.pdf>.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 784.
- [Eiben *et al.*(1999)Eiben, Elia and van Hemert] Eiben, A.E., Elia, D. and van Hemert, J.I. (1999) ‘Population dynamics and emerging mental features in aegis’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1257–1264. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-038.pdf>.
- [El-Beltagy *et al.*(1999)El-Beltagy, Nair and Keane] 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 196–203. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-854.pdf>.
- [Eldershaw and Cameron(1999)] Eldershaw, C. and Cameron, S. (1999) ‘Real-world applications: Motion planning using gas’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1776. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-768.pdf>.
- [Evett *et al.*(1999)Evett, Khoshgoftaar, der Chien and Allen] Evett, M., Khoshgoftaar, T., der Chien, P. and Allen, E. (1999) ‘Modelling software quality with gp’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1232. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-462.pdf>.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 797. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-321.pdf>.
- [Falco *et al.*(1999)Falco, Iazzetta, Tarantino, Cioppa and Iacuell] Falco, I.D., Iazzetta, A., Tarantino, E., Cioppa, A.D. and Iacuell, A. (1999) ‘Towards a simulation of natural mutation’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 156–163.
- [Federman *et al.*(1999)Federman, Sparkman and Watt] Federman, F., Sparkman, G. and Watt, S. (1999) ‘Representation of music in a learning classifier system utilizing bach chorales’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 785.
- [Fernandes *et al.*(1999)Fernandes, Caldeira, Melicio and Rosa] Fernandes, C., Caldeira, J.P., Melicio, F. and Rosa, A. (1999) ‘Evolutionary algorithm for school timetabling’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1777. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-743.pdf>.

- [Fernandez Jr. and Walker(1999)] Fernandez Jr., J.J. and Walker, I.D. (1999) ‘A biologically inspired fitness function for robotic grasping’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1517–1522. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-744.pdf>.
- [Folino *et al.*(1999)] Folino, Pizzuti and Spezzano] Folino, G., Pizzuti, C. and Spezzano, G. (1999) ‘A cellular genetic programming approach to classification’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1015–1020. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-427.pdf>.
- [Francone *et al.*(1999)] Francone, Conrads, Banzhaf and Nordin] Francone, F.D., Conrads, M., Banzhaf, W. and Nordin, P. (1999) ‘Homologous crossover in genetic programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1021–1026. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-463.pdf>.
- [Fuchs(1999)] Fuchs, M. (1999) ‘Large populations are not always the best choice in genetic programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1033–1038. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-410.pdf>.
- [Fuchs *et al.*(1999)] Fuchs, Fuchs and Fuchs] Fuchs, M., Fuchs, D. and Fuchs, M. (1999) ‘Generating lemmas for tableau-based proof search using genetic programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1027–1032. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-400.pdf>.
- [Fukunaga(1999)] Fukunaga, A.S. (1999) ‘Portfolios of genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 786. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-840.pdf>.
- [Fukuyama *et al.*(1999)] Fukuyama, Takayama, Nakanishi and Yoshida] 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1523–1528. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-713.pdf>.
- [Furutani(1999)] Furutani, H. (1999) ‘Analytical solutions for infinite population genetic algorithms on multiplicative landscape’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 204–211.
- [Gaivoronski(1999)] Gaivoronski, A.A. (1999) ‘Modeling of complex economic systems with agent nets’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1265–1272. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-041.ps>.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando,

- Florida, USA: Morgan Kaufmann, pp. 1273–1280. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-005.pdf>.
- [Gallagher *et al.*(1999)Gallagher, Frean and Downs] Gallagher, M., Frean, M. and Downs, T. (1999) ‘Real-valued evolutionary optimization using a flexible probability density estimator’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 840–846. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/gallagher_gecco99.ps.gz.
- [de Garis *et al.*(1999)de Garis, Buller, Korkin, Gers, Nawa and Hough] 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1233. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-464.ps>.
- [Garzon *et al.*(1999)Garzon, Deaton and Barnes] Garzon, M.H., Deaton, R.J. and Barnes, K. (1999) ‘On self-assembling graphs in vitro’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1805–1809.
- [Ghanea-Hercock *et al.*(1999)Ghanea-Hercock, Ndumu and Collis] Ghanea-Hercock, R., Ndumu, D.T. and Collis, J. (1999) ‘Distributed genetic programming with mobile agents’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1441. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-004.pdf>.
- [Glickman and Sycara(1999)] Glickman, M.R. and Sycara, K. (1999) ‘Evolution of goal-directed behavior from limited information in a complex environment’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1281–1288. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-015.pdf>.
- [Goldberg(1999)] Goldberg, D.E. (1999) ‘Using time efficiently: Genetic-evolutionary algorithms and the continuation problem’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 212–219. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-881.pdf>.
- [Goldberg and Voessner(1999)] Goldberg, D.E. and Voessner, S. (1999) ‘Optimizing global-local search hybrids’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 220–228. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-882.ps>.
- [Golovkin *et al.*(1999)Golovkin, Mancini and Louis] Golovkin, I.E., Mancini, R.C. and Louis, S.J. (1999) ‘Plasma x-ray spectra analysis using genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1529–1534. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-734b.pdf>.
- [Gordillo *et al.*(1999)Gordillo, Alcala and Aracil] Gordillo, F., Alcala, I. and Aracil, J. (1999) ‘A tool for solving differential games with co-evolutionary algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann,

- pp. 1535–1542. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-775.pdf>.
- [Gordon *et al.*(1999)Gordon, Pirie, Wachter and Sharp] Gordon, V.S., Pirie, R., Wachter, A. and Sharp, S. (1999) ‘Terrain-based genetic algorithm (tbga): Modeling parameter space as terrain’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 229–235. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/tbga.pdf>.
- [Gorges-Schleuter(1999)] Gorges-Schleuter, M. (1999) ‘An analysis of local selection in evolution strategies’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 847–854.
- [Gottlieb(1999)] Gottlieb, J. (1999) ‘Evolutionary algorithms for multidimensional knapsack problems: the relevance of the boundary of the feasible region’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 787.
- [Gronroos(1999)] Gronroos, M. (1999) ‘A comparison of some methods for evolving neural networks’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1442. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-006.pdf>.
- [Guerra-Salcedo and Whitley(1999)] Guerra-Salcedo, C. and Whitley, D. (1999) ‘Genetic approach to feature selection for ensemble creation’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 236–243. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Guerra-Salcedo_gecco99c.pdf.
- [Guigue *et al.*(1999)Guigue, Oussedik and Delahaye] Guigue, A., Oussedik, S. and Delahaye, D. (1999) ‘Sequencing aircraft landings by genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 788. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-880.pdf>.
- [Hackworth(1999)] Hackworth, T. (1999) ‘India and pakistan, a classic “richardson” arms race: A genetic algorithmic approach’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1543–1550. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-700.pdf>.
- [Haith *et al.*(1999)Haith, Colombano, Lohn and Stassinopoulos] Haith, G.L., Colombano, S.P., Lohn, J.D. and Stassinopoulos, D. (1999) ‘Coevolution for problem simplification’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 244–251. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-896.pdf>.
- [Handa *et al.*(1999)Handa, Katai, Konishi and Baba] Handa, H., Katai, O., Konishi, T. and Baba, M. (1999) ‘Coevolutionary genetic algorithms for solving dynamic constraint satisfaction problems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 252–257. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-394.pdf>.

- [Hara and Nagao(1999)] Hara, A. and Nagao, T. (1999) ‘Emergence of the cooperative behavior using adg; automatically defined groups’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1039–1046. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-415.ps>.
- [Harik and Lobo(1999)] Harik, G.R. and Lobo, F.G. (1999) ‘A parameter-less genetic algorithm’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 258–265. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/parameter-less-ga.ps>.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1551–1558. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-736.pdf>.
- [Harris *et al.*(1999a)Harris, Elliott, Ingham, Pourkashanian and Wilson] 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1780. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-759_2.pdf.
- [Harris *et al.*(1999b)Harris, Mustata, Elliott, Ingham and Lesnic] Harris, S.D., Mustata, R., Elliott, L., Ingham, D.B. and Lesnic, D. (1999b) ‘Parameter identification within rocks using genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1779. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-758_2.pdf.
- [Hart and Ross(1999)] Hart, E. and Ross, P. (1999) ‘An immune system approach to scheduling in changing environments’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1559–1566. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-723.pdf>.
- [Hart(1999)] Hart, W.E. (1999) ‘Comparing evolutionary programs and evolutionary pattern search algorithms: A drug docking application’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 855–862. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Har99-gecco.ps.gz>.
- [Hartley(1999)] Hartley, A.R. (1999) ‘Accuracy-based fitness allows similar performance to humans in static and dynamic classification environments’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 266–273. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Hartley1999a.ps.gz>.
- [Harvey *et al.*(1999)Harvey, Foster and Frincke] Harvey, B., Foster, J. and Frincke, D. (1999) ‘Towards byte code genetic programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1234. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-418.pdf>.
- [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 W. Banzhaf, J. Daida, A.E.

- Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 274–280. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-382.pdf>.
- [Heckendorn *et al.*(1999)Heckendorn, Rana and Whitley] Heckendorn, R.B., Rana, S. and Whitley, D. (1999) ‘Polynomial time summary statistics for a generalization of maxsat’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 281–288. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/maxsat99.pdf>.
- [Helmer *et al.*(1999)Helmer, Wong, Honavar and Miller] Helmer, G., Wong, J., Honavar, V. and Miller, L. (1999) ‘Feature selection using a genetic algorithm for intrusion detection’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1781. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-737.pdf>.
- [Hernandez *et al.*(1999)Hernandez, Goldstein and Niao] Hernandez, G., Goldstein, J.A. and Niao, F. (1999) ‘Stochastic differential model for evolutionary algorithms over continuous spaces’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 863–870.
- [Hinchliffe *et al.*(1999)Hinchliffe, Willis and Tham] Hinchliffe, M., Willis, M. and Tham, M. (1999) ‘Dynamic chemical process modelling using a multiple basis function genetic programming algorithm’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1782. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-746.pdf>.
- [Ho and Chang(1999)] Ho, S.Y. and Chang, X.I. (1999) ‘An efficient generalized multiobjective evolutionary algorithm’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 871–878.
- [Ho *et al.*(1999a)Ho, Chen and Shu] Ho, S.Y., Chen, H.M. and Shu, L.S. (1999a) ‘Solving large knowledge base partitioning problems using an intelligent genetic algorithm’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1567–1572. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-747NEW.ps>.
- [Ho *et al.*(1999b)Ho, Shu and Chen] Ho, S.Y., Shu, L.S. and Chen, H.M. (1999b) ‘Intelligent genetic algorithm with a new intelligent crossover using orthogonal arrays’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 289–296.
- [Hoehn and Pettey(1999)] Hoehn, T.P. and Pettey, C.C. (1999) ‘Parental and cyclic-rate mutation in genetic algorithms: An initial investigation’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 297–304. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-383.pdf>.
- [Hofmeyr and Forrest(1999)] Hofmeyr, S.A. and Forrest, S. (1999) ‘Immunity by design: An artificial immune system’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1289–1296. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-039.pdf>.

- [Holmes(1999)] Holmes, J.H. (1999) ‘Evaluating learning classifier system performance in two-choice decision tasks: An lcs metric toolkit’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 789. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-389.pdf>.
- [Hong *et al.*(1999)Hong, Wang and Chen] Hong, T.P., Wang, H.S. and Chen, W.C. (1999) ‘Simultaneously applying multiple crossover and mutation operators’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 790. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/ga305.ps>.
- [Horn(1999)] Horn, J. (1999) ‘Controlling the cooperative-competitive boundary in niched genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 305–312. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Ga-830.pdf>.
- [Hornby *et al.*(1999)Hornby, Fujita, Takamura, Yamamoto and Hanagata] Hornby, G.S., Fujita, M., Takamura, S., Yamamoto, T. and Hanagata, O. (1999) ‘Autonomous evolution of gaits with the sony quadruped robot’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1297–1304. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-011.pdf>.
- [Hornby and Mirtich(1999)] Hornby, G.S. and Mirtich, B. (1999) ‘Diffuse versus true coevolution in a physics-based world’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1305–1312. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-025.pdf>.
- [Howard and Roberts(1999)] Howard, D. and Roberts, S.C. (1999) ‘A staged genetic programming strategy for image analysis’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1047–1052. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-461.ps>.
- [Hsu *et al.*(1999)Hsu, Pottenger, Welge, Wu and Yang] 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1783. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-754.pdf>.
- [Huang *et al.*(1999)Huang, Yang, Shen and Horng] Huang, H.D., Yang, J.T., Shen, S.F. and Horng, J.T. (1999) ‘An evolution strategy to solve sports scheduling problems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 943.
- [Iba(1999)] Iba, H. (1999) ‘Bagging, boosting, and bloating in genetic programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1053–1060. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-407.pdf>.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic*

- and *Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1061–1068. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-422.pdf>.
- [III *et al.*(1999a)III, Koza, Keane, Yu, Mydlowec and Stiffelman] 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1477–1483. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-787.pdf>.
- [III *et al.*(1999b)III, Koza, Shipman and Stiffelman] 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1484–1490. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-788.pdf>.
- [III(1999)] III, H.B.C. (1999) ‘Aircraft maneuvering via genetics-based adaptive agent’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1249–1256. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-035.pdf>.
- [Iima and Sannomiya(1999)] Iima, H. and Sannomiya, N. (1999) ‘Genetic algorithm for a large-scale scheduling problem in an electric wire production process’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1784. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-707.pdf>.
- [Jelasity(1999)] Jelasity, M. (1999) ‘The adaptationist stance and evolutionary computation’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1859–1864. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/MP-600.pdf>.
- [Jo and Kang(1999)] Jo, Y.G. and Kang, H. (1999) ‘Evolutionary cellular automata for optimal path planning of mobile robots’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1443. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-037.pdf>.
- [John *et al.*(1999)John, Panton and White] John, M., Panton, D. and White, K. (1999) ‘Genetic algorithm for regional surveillance’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1573–1579. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-712.ps>.
- [Julstrom(1999)] Julstrom, B.A. (1999) ‘Redundant genetic encodings may not be harmful’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 791. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Julstrom_gecco99short.html.
- [Kalganova *et al.*(1999)Kalganova, Miller and Fogarty] Kalganova, T., Miller, J.F. and Fogarty, T.C. (1999) ‘Evolution of the digital circuits with variable layouts’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1235. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-449.pdf>.

- [Karanta *et al.*(1999)Karanta, Mikkola, Bounsaythip, Jokinen and Savola] Karanta, I., Mikkola, T., Bounsaythip, C., Jokinen, O. and Savola, J. (1999) ‘Solving wood collection problem using genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1787. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-757.pdf>.
- [Kargupta and Sarkar(1999)] Kargupta, H. and Sarkar, K. (1999) ‘Function induction, gene expression, and evolutionary representation construction’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 313–320. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-885.pdf>.
- [Karr and Borgelt(1999)] Karr, C.L. and Borgelt, K. (1999) ‘Modeling a grinding circuit using genetic programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1785. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-702.pdf>.
- [Karr and Weck(1999)] Karr, C.L. and Weck, B. (1999) ‘Solutions to systems of nonlinear equations via genetic algorithm’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1786. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-703.pdf>.
- [Kaschel *et al.*(1999)Kaschel, Kobernik, Meier and Teich] 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 792.
- [Katayama and Narihisa(1999)] Katayama, K. and Narihisa, H. (1999) ‘Iterated local search approach using genetic transformation to the traveling salesman problem’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 321–328. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-819.pdf>.
- [Keedwell *et al.*(1999)Keedwell, Narayanan and Savic] Keedwell, E., Narayanan, A. and Savic, D. (1999) ‘Using genetic algorithms to extract rules from trained neural networks’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 793. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Ga-805.pdf>.
- [Keijzer and Babovic(1999)] Keijzer, M. and Babovic, V. (1999) ‘Dimensionally aware genetic programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1069–1076. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-420.ps>.
- [Keller and Banzhaf(1999)] Keller, R.E. and Banzhaf, W. (1999) ‘The evolution of genetic code in genetic programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1077–1082. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-438.pdf>.
- [Kennedy and Giraud-Carrier(1999)] Kennedy, C.J. and Giraud-Carrier, C. (1999) ‘A depth controlling strategy for strongly typed evolutionary programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan

- Kaufmann, pp. 879–885. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Kennedy_GECCO1999.pdf.
- [Key(1999)] Key, C. (1999) ‘Non-reciprocal altruism and the evolution of paternal care’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1313–1320. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-051.ps>.
- [Klyce(1999)] Klyce, B. (1999) ‘In real or artificial life, is evolutionary progress in a closed system possible?’ In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1444. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-021.pdf>.
- [Knowles *et al.*(1999)Knowles, Corne and Oates] Knowles, J., Corne, D. and Oates, M. (1999) ‘A new evolutionary approach to the degree constrained minimum spanning tree problem’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 794. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/KnowlesCorneGECCO99.ps>.
- [Koehler(1999)] Koehler, G.J. (1999) ‘Computing simple ga expected waiting times’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 795. Available at: <http://www.cba.ufl.edu/dis/papers/9706100.ps>.
- [Kokai *et al.*(1999a)Kokai, Toth and Vanyi] Kokai, G., Toth, Z. and Vanyi, R. (1999a) ‘Generic evolution algorithms programming library’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1867. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/MP-601b.pdf>.
- [Kokai *et al.*(1999b)Kokai, Vanyi and Toth] Kokai, G., Vanyi, R. and Toth, Z. (1999b) ‘Parametric l-system description of the retina with combined evolutionary operators’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1588–1595. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-769.pdf>.
- [Kopp *et al.*(1999)Kopp, Mortveit and Reidys] Kopp, S., Mortveit, H.S. and Reidys, C.M. (1999) ‘Sequential dynamical systems and simulation’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1445. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-009.pdf>.
- [Kovacs(1999)] Kovacs, T. (1999) ‘Deletion schemes for classifier systems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 329–336. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-856.pdf>.
- [Koza *et al.*(1999)Koza, Keane, III, Yu, Mydlowec and Stiffelman] 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1083–1091. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-457.pdf>.

- [Krasnogor *et al.*(1999)Krasnogor, Hart, Smith and Pelta] Krasnogor, N., Hart, W.E., Smith, J. and Pelta, D.A. (1999) ‘Protein structure prediction with evolutionary algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1596–1601. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-733.pdf>.
- [Krink *et al.*(1999)Krink, Mayoh and Michalewicz] Krink, T., Mayoh, B.H. and Michalewicz, Z. (1999) ‘A patchwork model for evolutionary algorithms with structured and variable size populations’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1321–1328. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-031.pdf>.
- [Kundu(1999)] Kundu, S. (1999) ‘Complexity engineering, evolution and optimality of structures’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 796. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/ga-869.pdf>.
- [Langdon(1999)] Langdon, W.B. (1999) ‘Size fair and homologous tree genetic programming crossovers’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1092–1097. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-405.pdf>.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1602–1608. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-715.pdf>.
- [Lanzi(1999)] Lanzi, P.L. (1999) ‘Extending the representation of classifier conditions part i: From binary to messy coding’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 337–344. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-893.pdf>.
- [Lanzi and Colombetti(1999)] Lanzi, P.L. and Colombetti, M. (1999) ‘An extension to the xcs classifier system for stochastic environments’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 353–360. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-894.pdf>.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 345–352.
- [Lee and Song(1999)] Lee, C.Y. and Song, Y. (1999) ‘Evolutionary programming using the levy probability distribution’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 886–893. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/ES-203.ps>.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and*

- Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1788. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-749.pdf>.
- [Lerena and Courant(1999)] Lerena, P. and Courant, M. (1999) ‘Complexity in mate choice’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1446. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-034.pdf>.
- [Levenick(1999)] Levenick, J.R. (1999) ‘Swappers: Introns promote flexibility, diversity and invention’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 361–368. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/swappers.ps>.
- [Li et al.(1999)Li, Man and Tang] Li, Y., Man, K.F. and Tang, K.S. (1999) ‘Multiobjective genetic algorithm for rolling-horizon production planning’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1789. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-708.pdf>.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1329–1335. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-001.ps>.
- [Lin(1999)] Lin, W.Y. (1999) ‘Improving parallel ordering of sparse matrices using genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1790. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-776.pdf>.
- [Loughlin and Ranjithan(1999)] Loughlin, D.H. and Ranjithan, S.R. (1999) ‘Chance-constrained genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 369–376. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-381.ps>.
- [Louis and Tang(1999)] Louis, S.J. and Tang, R. (1999) ‘Interactive genetic algorithms for the traveling salesman problem’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 385–392. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-385.ps>.
- [Louis and Zhang(1999)] Louis, S.J. and Zhang, Y. (1999) ‘A sequential similarity metric for case injected genetic algorithms applied to tps’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 377–384. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-379.ps>.
- [Luke et al.(1999)Luke, Hamahashi and Kitano] Luke, S., Hamahashi, S. and Kitano, H. (1999) ‘“genetic” programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1098–1105. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-437.ps>.
- [Maley(1999)] Maley, C.C. (1999) ‘Four steps toward open-ended evolution’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA:

- Morgan Kaufmann, pp. 1336–1343. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-049.pdf>.
- [Marchiori and Rossi(1999)] Marchiori, E. and Rossi, C. (1999) ‘A flipping genetic algorithm for hard 3-sat problems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 393–400. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/ga-858.ps.gz>.
- [Mariano and M.(1999)] Mariano, C.E. and M., E.M. (1999) ‘Moaq an ant-q algorithm for multiple objective optimization problems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 894–901. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Mariano_gecco99.ps.gz.
- [Marin and Sole(1999)] Marin, J. and Sole, R.V. (1999) ‘Evolutionary optimization through extinction dynamics’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1344–1349. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-036.pdf>.
- [Marks *et al.*(1999)] Marks, Midgley, Cooper and Shiraz] Marks, R.E., Midgley, D.F., Cooper, L.G. and Shiraz, G.M. (1999) ‘Coevolution with the genetic algorithm: Repeated differentiated oligopolies’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1609–1615. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-766.pdf>.
- [Martin *et al.*(1999)] Martin, Moal and Vrain] Martin, L., Moal, F. and Vrain, C. (1999) ‘Declarative expression of biases in genetic programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 401–408.
- [Mattfeld(1999)] Mattfeld, D.C. (1999) ‘Scalable search spaces for scheduling problems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1616–1621. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-760.pdf>.
- [Mautner and Belew(1999)] Mautner, C. and Belew, R.K. (1999) ‘Coupling morphology and control in a simulated robot’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1350–1357. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-027.pdf>.
- [Maxwell and Anderson(1999)] Maxwell, B. and Anderson, S. (1999) ‘Training hidden markov models using population-based learning’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 944. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Maxwell-Anderson-GECCO-1999.ps.gz>.
- [McKay *et al.*(1999)] McKay, Willis, Searson and Montague] McKay, B., Willis, M., Searson, D. and Montague, G. (1999) ‘Non-linear continuum regression using genetic programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1106–1111. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-443.pdf>.

- [McPhee and Hopper(1999)] McPhee, N.F. and Hopper, N.J. (1999) ‘Analysis of genetic diversity through population history’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1112–1120. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-421.pdf>.
- [Mengshoel and Goldberg(1999)] Mengshoel, O.J. and Goldberg, D.E. (1999) ‘Probabilistic crowding: Deterministic crowding with probabilistic replacement’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 409–416.
- [Merz and Freisleben(1999)] Merz, P. and Freisleben, B. (1999) ‘Genetic algorithms for binary quadratic programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 417–424. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/merz_gecco99.ps.gz.
- [Meysenburg and Foster(1999a)] Meysenburg, M.M. and Foster, J.A. (1999a) ‘Random generator quality and gp performance’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1121–1126. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-416.pdf>.
- [Meysenburg and Foster(1999b)] Meysenburg, M.M. and Foster, J.A. (1999b) ‘Randomness and ga performance, revisited’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 425–432. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/prng-icga99.pdf>.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1358–1365. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-032.pdf>.
- [Miller(1999a)] Miller, J.F. (1999a) ‘Digital filter design at gate-level using evolutionary algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1127–1134. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-406.ps>.
- [Miller(1999b)] Miller, J.F. (1999b) ‘An empirical study of the efficiency of learning boolean functions using a cartesian genetic programming approach’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1135–1142. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-411.ps>.
- [Mota *et al.*(1999)] Mota, Ferreira and Rosa] Mota, C., Ferreira, H. and Rosa, A. (1999) ‘Independent and simultaneous evolution of fuzzy sleep classifiers by genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1622–1629. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-784.pdf>.
- [Moustafa *et al.*(1999)] Moustafa, Jong and Wegman] Moustafa, R.E., Jong, K.A.D. and Wegman, E.J. (1999) ‘Using genetic algorithms for adaptive function approximation and mesh generation’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando,

- Florida, USA: Morgan Kaufmann, p. 798. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-895.pdf>.
- [Munetomo and Goldberg(1999)] Munetomo, M. and Goldberg, D.E. (1999) ‘Identifying linkage groups by nonlinearity/non-monotonicity detection’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 433–440.
- [Murata *et al.*(1999)Murata, Ishibuchi and Gen] Murata, T., Ishibuchi, H. and Gen, M. (1999) ‘Specification of local search directions in genetic local search algorithms for multi-objective optimization problems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 441–448.
- [Muruzabal(1999)] Muruzabal, J. (1999) ‘Mining the space of generality with uncertainty-concerned cooperative classifiers’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 449–457. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-300.ps>.
- [Myers *et al.*(1999)Myers, Laskey and DeJong] Myers, J.W., Laskey, K.B. and DeJong, K.A. (1999) ‘Learning bayesian networks from incomplete data using evolutionary algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 458–465. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/myers_gecco99.pdf.
- [Naoki and Hajime(1999)] Naoki, M. and Hajime, K. (1999) ‘The entropy evaluation method for the thermodynamical selection rule’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 799. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-844.pdf>.
- [Naudts and Schippers(1999)] Naudts, B. and Schippers, A. (1999) ‘A motivated definition of exploitation and exploration’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 800. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/xxBA.ps>.
- [Nault *et al.*(1999)Nault, Rialle and Meunier] Nault, G., Rialle, V. and Meunier, J.G. (1999) ‘Progen: a genetic-based semi-automatic hypertext construction tool-first steps and experiment’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1630–1635. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-729a.ps>.
- [Navarro *et al.*(1999)Navarro, de Oliveira, Ramos and Campos-Velho] 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1580–1587. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-772a.ps>.
- [Neves *et al.*(1999a)Neves, Silva and Costa] Neves, A., Silva, A. and Costa, E. (1999a) ‘Evolutionary path planning for nonholonomic robots’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 466–472.

- [Neves *et al.*(1999b)Neves, Rocha, Rodrigues, Biscaia and Alves] Neves, J., Rocha, M., Rodrigues, H., Biscaia, M. and Alves, J. (1999b) ‘Adaptive strategies and the design of evolutionary applications’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 473–479.
- [Niao *et al.*(1999)Niao, Hernandez and Dasgupta] Niao, F., Hernandez, G. and Dasgupta, D. (1999) ‘On evolution of stochastic dynamical neural networks’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 801. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-387.pdf>.
- [Nishikawa *et al.*(1999)Nishikawa, Hagiya and Yamamura] Nishikawa, A., Hagiya, M. and Yamamura, M. (1999) ‘Virtual dna simulator and protocol design by ga’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1810–1816. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/DN100.ps.gz>.
- [Oates *et al.*(1999)Oates, Corne and Loader] Oates, M., Corne, D. and Loader, R. (1999) ‘Variation in ea performance characteristics on the adaptive distributed database management problem’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 480–487.
- [Obayashi *et al.*(1999)Obayashi, Sasaki and Takeguchi] Obayashi, S., Sasaki, D. and Takeguchi, Y. (1999) ‘Evolutionary computation of supersonic wing shape optimization’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1791. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-710.pdf>.
- [Ochoa *et al.*(1999)Ochoa, Harvey and Buxton] Ochoa, G., Harvey, I. and Buxton, H. (1999) ‘On recombination and optimal mutation rates’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 488–495. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Ochoa_GECCO1999.ps.gz.
- [Ogihara(1999)] Ogihara, M. (1999) ‘Relating the minimum model for dna computation and boolean circuits’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1817–1821. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/relating.pdf>.
- [Oh(1999)] Oh, J.C. (1999) ‘Effects of “physical body” on biased opponent selection in the iterated prisoner’s dilemma game’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1447. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-022.pdf>.
- [Olague(1999)] Olague, G. (1999) ‘Analysis of genetic algorithms convergence applied to mensuration problems in computer vision’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1792. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-742.pdf>.
- [Olsson(1999)] Olsson, B. (1999) ‘Using evolutionary algorithms in the design of protein fingerprints’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1636–1642. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-753.pdf>.

- [O'Neill and Ryan(1999)] O'Neill, M. and Ryan, C. (1999) 'Under the hood of grammatical evolution'. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1143–1148. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-434.pdf>.
- [Ono *et al.*(1999)Ono, Kita and Kobayashi] 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 496–503. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Ono_gecco99.pdf.
- [Opitz(1999)] Opitz, D.W. (1999) 'An evolutionary approach to feature set selection'. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 803. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-886.pdf>.
- [Opitz *et al.*(1999)Opitz, Basak and Gute] Opitz, D.W., Basak, S.C. and Gute, B.D. (1999) 'Hazard assessment modeling: An evolutionary ensemble approach'. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1643–1650. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-739.pdf>.
- [Oppacher and Wineberg(1999)] Oppacher, F. and Wineberg, M. (1999) 'The shifting balance genetic algorithm: Improving the ga in a dynamic environment'. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 504–510. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-365.ps>.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1651–1656. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-771b.pdf>.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 902–909. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Ostermeier_GECCO99.pdf.
- [Palazzari and Coli(1999)] Palazzari, P. and Coli, M. (1999) 'Evolving probabilistic chromosomes in genetic algorithms'. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 511–518.
- [Parker and Mills(1999)] Parker, G.B. and Mills, J.W. (1999) 'Adaptive hexapod gait control using anytime learning with fitness biasing'. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 519–524. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-866.pdf>.
- [Parmee and Watson(1999)] Parmee, I.C. and Watson, A.H. (1999) 'Preliminary airframe design using co-evolutionary multiobjective genetic algorithms'. In W. Banzhaf, J. Daida, A.E. Eiben,

- M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1657–1665. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-763.PS>.
- [Pazos *et al.*(1999a)]Pazos, Dorado, Santos and Rabunal] Pazos, A., Dorado, J., Santos, A. and Rabunal, J.R. (1999a) ‘Optimization of ga parameters to train recurrent ann through weight adjustment and selection of activation functions’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1793. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-751A.pdf>.
- [Pazos *et al.*(1999b)]Pazos, Pazos and Paton] Pazos, A., Pazos, J. and Paton, A.R. (1999b) ‘Dna assembly and recombination for hamiltonian paths and binary words’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1822–1824.
- [Pazos *et al.*(1999c)]Pazos, del Riego, Dorado and Cardalda] Pazos, A., del Riego, A.S., Dorado, J. and Cardalda, J.J.R. (1999c) ‘Adaptive aspects of rhythmic composition: Genetic music’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1794. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-752.pdf>.
- [Pelikan *et al.*(1999)]Pelikan, Goldberg and Cantu-Paz] Pelikan, M., Goldberg, D.E. and Cantu-Paz, E. (1999) ‘Boa: The bayesian optimization algorithm’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 525–532. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/boa.ps.gz>.
- [Pereira(1999)] Pereira, A.G. (1999) ‘Road design by evolutionary modelling of routes’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1778. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/rw-782.ps>.
- [Pereira *et al.*(1999)]Pereira, Machado, Costa and Cardoso] Pereira, F.B., Machado, P., Costa, E. and Cardoso, A. (1999) ‘Graph based crossover-a case study with the busy beaver problem’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1149–1155. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-429.pdf>.
- [Perkins(1999)] Perkins, S. (1999) ‘Evolving effective visual tracking through shaping’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1156–1161. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-458c.pdf>.
- [Perrenoud *et al.*(1999)]Perrenoud, Tomassini, Sipper and Zolla] Perrenoud, M., Tomassini, M., Sipper, M. and Zolla, M. (1999) ‘Evolving high-quality random number generators’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 804.
- [Petrowski and Hamida(1999)] Petrowski, A. and Hamida, S.B. (1999) ‘A logarithmic mutation operator to solve constrained optimization problems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 805. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-889.pdf>.

- [Pindor(1999)] Pindor, A.J. (1999) ‘Using genetic algorithm to manipulate polynomial expressions’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1666–1671. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-719.pdf>.
- [Plagianakos and Vrahatis(1999)] Plagianakos, V.P. and Vrahatis, M.N. (1999) ‘Training neural networks with 3-bit integer weights’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 910–915.
- [Pohlheim(1999)] Pohlheim, H. (1999) ‘Visualization of evolutionary algorithms - set of standard techniques and multidimensional visualization’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 533–540. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-820.pdf>.
- [Pohlheim and Heissner(1999)] Pohlheim, H. and Heissner, A. (1999) ‘Optimal control of greenhouse climate using real-world weather data and evolutionary algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1672–1677. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-756.pdf>.
- [Pohlheim and Wegener(1999)] Pohlheim, H. and Wegener, J. (1999) ‘Testing the temporal behavior of real-time software modules using extended evolutionary algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1795. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-770.pdf>.
- [Poli(1999)] Poli, R. (1999) ‘Schema theorems without expectations’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 806. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Poli-GECCO1999-Poster.pdf>.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1162–1169. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-466.pdf>.
- [Poon(1999)] Poon, J. (1999) ‘Problem solving: Search, exploration and co-evolution’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 541–548. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-878.pdf>.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1796. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-745.pdf>.
- [Pratihar *et al.*(1999)] Pratihar, 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith,

- (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1678–1684. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-748.pdf>.
- [Pujol and Poli(1999)] Pujol, J.C.F. and Poli, R. (1999) ‘Evolution of neural networks using weight mapping’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1170–1177. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-430.pdf>.
- [Punya and Deo(1999)] Punya, S. and Deo, B. (1999) ‘Prediction of silicon content of hot metal using fuzzy-ga regression’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1685–1690. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-785.pdf>.
- [Radi and Poli(1999)] Radi, A. and Poli, R. (1999) ‘Evolutionary discovery of learning rules for feedforward neural networks with step activation function’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1178–1183. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-428.attempt2.pdf>.
- [Raich and Ghaboussi(1999)] Raich, A.M. and Ghaboussi, J. (1999) ‘Frame design synthesis using implicit redundant genetic algorithm’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1691–1698. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-732.pdf>.
- [Raidl(1999)] Raidl, G.R. (1999) ‘An evolutionary approach to point-feature label placement’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 807. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/raidl-99b.ps>.
- [Rana(1999)] Rana, S. (1999) ‘The distributional biases of crossover operators’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 549–556. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Rana_gecco99.pdf.
- [Rechsteiner and Bedau(1999)] Rechsteiner, A. and Bedau, M.A. (1999) ‘A generic neutral model for measuring excess evolutionary activity of genotypes’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1366–1373. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-016.pdf>.
- [Ren *et al.*(1999)] Ren, Tanaka, Okayama and Gojobori] Ren, F., Tanaka, H., Okayama, T. and Gojobori, T. (1999) ‘Reconstructing molecular phylogenetic tree with multifurcation by using minimum complexity principle’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1825–1828.
- [Rodriguez(1999)] Rodriguez, A.O. (1999) ‘Finding wavelet packet bases with an estimation distribution algorithm’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 802. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Ga-363.pdf>.

- [Rose *et al.*(1999)Rose, Deaton, Franceschetti, Garzon and Jr.] 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1829–1834. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Rose_newgecco.pdf.
- [Rosete-Suarez *et al.*(1999)Rosete-Suarez, Ochoa-Rodriguez and Sebag] Rosete-Suarez, A., Ochoa-Rodriguez, A. and Sebag, M. (1999) ‘Automatic graph drawing and stochastic hill climbing’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1699–1706. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-726f.pdf>.
- [Ross(1999)] Ross, B.J. (1999) ‘Logic-based genetic programming with definite clause translation grammars’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1236. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-408.pdf>.
- [Rowe(1999)] Rowe, J.E. (1999) ‘Finding attractors for periodic fitness functions’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 557–563.
- [Ryan *et al.*(1999)Ryan, Debuse, Smith and Whittle] Ryan, M., Debuse, J., Smith, G. and Whittle, I. (1999) ‘A hybrid genetic algorithm for the fixed channel assignment problem’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1707–1714. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-714.pdf>.
- [Salim(1999)] Salim, V. (1999) ‘Genetic algorithms in road investment planning with computational comparisons to simulated annealing and heuristics’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 808.
- [Salman *et al.*(1999)Salman, Mehrotra and Mohan] Salman, A.A., Mehrotra, K. and Mohan, C.K. (1999) ‘Linkage crossover for genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 564–571. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-823.pdf>.
- [Salustowicz and Schmidhuber(1999)] Salustowicz, R.P. and Schmidhuber, J. (1999) ‘Sequence learning through pipe and automatic task decomposition’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1184–1191. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-442.pdf>.
- [Sarma and Jong(1999)] Sarma, J. and Jong, K.D. (1999) ‘The behavior of spatially distributed evolutionary algorithms in non-stationary environments’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 572–578. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/sarma_icga99.ps.gz.
- [Sawai and Adachi(1999)] Sawai, H. and Adachi, S. (1999) ‘Parallel distributed processing of a parameter-free hierarchical migration methods’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and*

Evolutionary Computation Conference, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 579–586. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-852.ps>.

- [Saxon and Barry(1999)] Saxon, S. and Barry, A. (1999) ‘Xcs and the monk’s problems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 809. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Saxon1999a.pdf>.
- [Schleiffer and Sebastian(1999)] Schleiffer, R. and Sebastian, H.J. (1999) ‘A fuzzy neighborhood based ga in fuzzy engineering design’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1797. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-701.pdf>.
- [Senin *et al.*(1999)Senin, Wallace and Borland] Senin, N., Wallace, D.R. and Borland, N. (1999) ‘Object-based design modeling and optimization with genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1715–1722. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-779.ps>.
- [Seredynski and Janikow(1999)] Seredynski, F. and Janikow, C.Z. (1999) ‘Designing cellular automata-based scheduling algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 587–594. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-849.pdf>.
- [Shanahan *et al.*(1999)Shanahan, Baldwin and Martin] Shanahan, J.G., Baldwin, J.F. and Martin, T.P. (1999) ‘Constructive induction of fuzzy cartesian granule feature models using genetic programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1237. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-431.pdf>.
- [Sharpe(1999a)] Sharpe, O. (1999a) ‘Continuing beyond nfl: Dissecting real world problems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 595–602. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-356.ps>.
- [Sharpe(1999b)] Sharpe, O. (1999b) ‘Persistence, search and autopoiesis’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1374–1381. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-046.pdf>.
- [Shimada and Anzai(1999)] Shimada, S. and Anzai, Y. (1999) ‘Fast and robust convergence of chained classifiers by generating operons through niche formation’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 810. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-393.pdf>.
- [Shimodaira(1999)] Shimodaira, H. (1999) ‘A diversity control oriented genetic algorithm (dcga): Development and experimental results’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 603–611.
- [Silva *et al.*(1999)Silva, Neves and Costa] Silva, A., Neves, A. and Costa, E. (1999) ‘Genetically programming networks to evolve memory mechanisms’. In W. Banzhaf, J. Daida, A.E. Eiben,

- M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1448. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-040.pdf>.
- [Simoes and Costa(1999)] Simoes, A.B. and Costa, E. (1999) ‘Transposition versus crossover: An empirical study’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 612–619. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Borges-Simoes_gecco99_2.pdf.
- [Sinclair(1999)] Sinclair, M.C. (1999) ‘Optical mesh network topology design using node-pair encoding genetic programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1192–1197. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-426.pdf>.
- [Smith(1999)] Smith, C.E. (1999) ‘An application of genetic programming to investment system optimization’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1798. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-750.ps>.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 620–627. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-837.pdf>.
- [Song and Cho(1999)] Song, G.B. and Cho, S.B. (1999) ‘Adaptive behavior of incrementally evolved neural networks based on cellular automata’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1449. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-014.pdf>.
- [Soule(1999)] Soule, T. (1999) ‘Voting teams: A cooperative approach to non-typical problems using genetic programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 916–922. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/vote2.ps>.
- [Spalanzani *et al.*(1999)Spalanzani, Selouani and Kabre] Spalanzani, A., Selouani, S.A. and Kabre, H. (1999) ‘Evolutionary algorithms for optimizing speech data projection’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1799. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Rw-778.pdf>.
- [Steinberg and Rasheed(1999)] Steinberg, L. and Rasheed, K. (1999) ‘Optimization by searching a tree of populations’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1723–1730. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-777.pdf>.
- [Stephens(1999)] Stephens, C.R. (1999) ‘Effect of mutation and recombination on the genotype-phenotype map’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1382–1389. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-028.ps>.

- [Stewart and Rosin(1999)] Stewart, R. and Rosin, P.L. (1999) ‘Neural network construction using voronoi dissections’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 811. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-801.pdf>.
- [Stoica *et al.*(1999)Stoica, Lazaro, Keymeulen and Hayworth] 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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1198–1203. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-440.pdf>.
- [Sturgill and Pant(1999)] Sturgill, D. and Pant, G. (1999) ‘Evaluation criteria for genetically-tuned problem-solving experts’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1390–1397. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-018.pdf>.
- [Sugai(1999)] Sugai, K. (1999) ‘Stochastic evolution on the hierarchical population’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 628–634.
- [Suzuki and Tanaka(1999)] Suzuki, Y. and Tanaka, H. (1999) ‘Practical and theoretical investigation of a collective work’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1450. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-047.pdf>.
- [Swift and Liu(1999)] Swift, S. and Liu, X. (1999) ‘Modelling and forecasting of glaucomatous visual fields using genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1731–1737. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-731.pdf>.
- [Takadama *et al.*(1999)Takadama, Terano and Shimohara] Takadama, K., Terano, T. and Shimohara, K. (1999) ‘How to design good learning agents in organization’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1398–1405. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-045.pdf>.
- [Takahashi *et al.*(1999)Takahashi, Murakawa, Toda and Higuchi] Takahashi, E., Murakawa, M., Toda, K. and Higuchi, T. (1999) ‘An evolvable-hardware-based clock timing architecture towards gigahz digital systems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1204–1210. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-450.pdf>.
- [Terashima-Marin *et al.*(1999)Terashima-Marin, Ross and Valenzuela-Rendon] Terashima-Marin, H., Ross, P. and Valenzuela-Rendon, M. (1999) ‘Evolution of constraint satisfaction strategies in examination timetabling’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 635–642. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-825.pdf>.
- [Thierens(1999)] Thierens, D. (1999) ‘Estimating the significant non-linearities in the genome problem-coding’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1.

- Orlando, Florida, USA: Morgan Kaufmann, pp. 643–648. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-810.ps>.
- [Tian *et al.*(1999)Tian, Sannomiya and Yokokura] Tian, Y., Sannomiya, N. and Yokokura, T. (1999) ‘A simulation study on adaptive behavior of fish schools under environmental variation’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1451. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-007.pdf>.
- [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 W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1738–1743. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-718.ps>.
- [Tomlinson and Bull(1999)] Tomlinson, A. and Bull, L. (1999) ‘On corporate classifier systems: Increasing the benefits of rule linkage’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 649–656.
- [Trenaman(1999)] Trenaman, A. (1999) ‘Further investigations into the evolution of agents with concurrent genetic programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1452. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-044.pdf>.
- [Tsutsui *et al.*(1999)Tsutsui, Yamamura and Higuchi] Tsutsui, S., Yamamura, M. and Higuchi, T. (1999) ‘Multi-parent recombination with simplex crossover in real coded genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 657–664. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Tsutsui_icga99.pdf.
- [Tucker and Liu(1999)] Tucker, A. and Liu, X. (1999) ‘Extending evolutionary programming methods to the learning of dynamic bayesian networks’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 923–929. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Tucker_GECC099.pdf.
- [Uchibe *et al.*(1999)Uchibe, Nakamura and Asada] Uchibe, E., Nakamura, M. and Asada, M. (1999) ‘Cooperative and competitive behavior acquisition for mobile robots through co-evolution’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1406–1413. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-033.pdf>.
- [Uno and Namatame(1999)] Uno, K. and Namatame, A. (1999) ‘Evolutionary behaviors emerged through strategic interactions in the large’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1414–1421. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-050.pdf>.
- [Valenzuela(1999)] Valenzuela, C.L. (1999) ‘Evolutionary divide and conquer (ii) for the tsp’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1744–1749. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-716.pdf>.

- [Vallejo and Ramos(1999)] Vallejo, E.E. and Ramos, F. (1999) ‘Result-sharing: A framework for cooperation in genetic programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1238. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-435.pdf>.
- [Vekaria and Clack(1999)] Vekaria, K. and Clack, C. (1999) ‘Biases introduced by adaptive recombination operators’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 670–677. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Vekaria_gecco99.ps.
- [Voss and Foley(1999)] Voss, M.S. and Foley, C.M. (1999) ‘Evolutionary algorithm for structural optimization’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 678–685. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Voss_genetic.pdf.
- [Vrajitoru(1999)] Vrajitoru, D. (1999) ‘Genetic programming operators applied to genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 686–693. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-312.ps.gz>.
- [Vriend(1999)] Vriend, N.J. (1999) ‘The difference between individual and population genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 812.
- [Wagner(1999)] Wagner, K. (1999) ‘Habitat, communication and cooperative strategies’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 694–701. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-842.pdf>.
- [Walker and Miglino(1999)] Walker, R. and Miglino, O. (1999) ‘Simulating exploratory behavior in evolving neural networks’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1422–1428. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-026.ps>.
- [Walker(1999)] Walker, R.L. (1999) ‘Assessment of the web using genetic programming’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1750–1755. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-727.pdf>.
- [Walsh(1999)] Walsh, P. (1999) ‘A functional style and fitness evaluation scheme for inducting high level programs’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1211–1216. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-455.pdf>.
- [Watabe and Kawaoka(1999)] Watabe, H. and Kawaoka, T. (1999) ‘Solving combinatorial optimization problems with multi-step genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 813.
- [Watson(1999)] Watson, J.P. (1999) ‘A performance assessment of modern niching methods for parameter optimization problems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon,

- V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 702–709.
- [Watson and Pollack(1999)] Watson, R.A. and Pollack, J.B. (1999) ‘Incremental commitment in genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 710–717. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-887.pdf>.
- [Weiss(1999)] Weiss, G.M. (1999) ‘Timeweaver: a genetic algorithm for identifying predictive patterns in sequences of events’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 718–725. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Weiss_gecco99.pdf.
- [White and Pagurek(1999)] White, T. and Pagurek, B. (1999) ‘Application oriented routing with biologically-inspired agents’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1453.
- [Whitley(1999)] Whitley, D. (1999) ‘A free lunch proof for gray versus binary encodings’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 726–733. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Whitley_gecco99a.pdf.
- [Williams and Williams(1999)] Williams, K.P. and Williams, S.A. (1999) ‘Two evolutionary representations for automatic parallelization’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1429–1436. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/AA-010.pdf>.
- [Wong *et al.*(1999)Wong, Yuryevich and Li] Wong, K.P., Yuryevich, J. and Li, A. (1999) ‘Evolutionary programming based method for evaluation of power flow’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1756–1761. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-773.pdf>.
- [Wood *et al.*(1999)Wood, Chen, Lemieux and Cedeno] Wood, D., Chen, J., Lemieux, E.A.B. and Cedeno, W. (1999) ‘A dna implementation of the max 1s problem’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1835–1842. Available at: http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Wood_gecco-99.pdf.
- [Wright and Zhao(1999)] Wright, A.H. and Zhao, Y. (1999) ‘Markov chain models of genetic algorithms’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 734–741. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/ssq.ps.gz>.
- [Yang *et al.*(1999a)Yang, Dasgupta and Cao] Yang, C., Dasgupta, D. and Cao, Y. (1999a) ‘A group encoding technique for set partitioning problems’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 742–749. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-814.pdf>.
- [Yang *et al.*(1999b)Yang, Tiyyagura, Chen and Honavar] Yang, J., Tiyyagura, A., Chen, F. and Honavar, V. (1999b) ‘Feature subset selection for rule induction using ripper’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of*

- the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, p. 1800. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-738.pdf>.
- [Yang and Kao(1999)] Yang, J.M. and Kao, C.Y. (1999) ‘An evolutionary algorithm for continuous global optimization’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 930–938.
- [Yen *et al.*(1999)] Yen, Yang, Lee and Liao] Yen, J., Yang, L., Lee, B. and Liao, J.C. (1999) ‘A supervisory simplex-ga approach for metabolic model optimization’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 750–757.
- [Yoshimi and Taura(1999)] Yoshimi, T. and Taura, T. (1999) ‘A computational model of a viewpoint-forming process in a hierarchical classifier system’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, pp. 758–766. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GA-871.pdf>.
- [Zahran *et al.*(1999)] Zahran, Wahab and Shaheen] Zahran, M.M., Wahab, A.H.A. and Shaheen, S.I. (1999) ‘Adaptive genetic algorithm for multiprocessor scheduling’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 1. Orlando, Florida, USA: Morgan Kaufmann, p. 814. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/Ga-835.pdf>.
- [Zhang and Joung(1999)] Zhang, B.T. and Joung, J.G. (1999) ‘Genetic programming with incremental data inheritance’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1217–1224. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/GP-460.pdf>.
- [Zitzler *et al.*(1999)] Zitzler, Teich and Bhattacharyya] Zitzler, E., Teich, J. and Bhattacharyya, S.S. (1999) ‘Evolutionary algorithm based exploration of software schedules for digital signal processors’. In W. Banzhaf, J. Daida, A.E. Eiben, M.H. Garzon, V. Honavar, M. Jakiela and R.E. Smith, (eds.) *Proceedings of the Genetic and Evolutionary Computation Conference*, vol. 2. Orlando, Florida, USA: Morgan Kaufmann, pp. 1762–1770. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco1999/RW-724.pdf>.