

## Список литературы

- [1] Uwe Aickelin and Larry Bull. Partnering strategies for fitness evaluation in A pyramidal evolutionary algorithm. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 263–270, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [2] Laura A. Albert and David E. Goldberg. Efficient discretization scheduling in multiple dimensions. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 271–278, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [3] Matthew Alden, Aard-Jan van Kesteren, and Risto Miikkulainen. Eugenic evolution utilizing A domain model. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 279–286, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [4] Shin Ando and Hitoshi Iba. Ant algorithm for construction of evolutionary tree. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 131, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [5] Maribel García Arenas, Brad Dolin, Juan Julián Merelo, Pedro Angel Castillo, Ignacio Fernández De Viana, and Marc Schoenauer. JEO: Java evolving objects. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 991, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [6] Peter Augustsson, Krister Wolff, and Peter Nordin. Creation of A learning, flying robot by means of evolution. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1279–1285, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [7] R. Muhammad Atif Azad, Conor Ryan, Mark E. Burke, and Ali R. Ansari. A re-examination of the cart centering problem using the chorus system. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 707–715, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [8] Jaume Bacardit and Josep M. Garrell. Evolution of adaptive discretization intervals for A rule-based genetic learning system. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 677, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [9] Justin Balthrop, Fernando Esponda, Stephanie Forrest, and Matthew Glickman. Coverage and generalization in an artificial immune system. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A.

- Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 3–10, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [10] Helio J. C. Barbosa and Afonso C. C. Lemonge. An adaptive penalty scheme in genetic algorithms for constrained optimization problems. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 287–294, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
  - [11] André Baresel, Harmen Sthamer, and Michael Schmidt. Fitness function design to improve evolutionary structural testing. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1329–1336, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
  - [12] L. Barone, L. While, and P. Hingston. Designing crushers with A multi-objective evolutionary algorithm. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 995–1002, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
  - [13] Brian K. Beachkofski and Gary B. Lamont. Evolutionary programming based stratified design space sampling. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 193–200, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
  - [14] Julie Beaulieu, Christian Gagné, and Marc Parizeau. Lens system design and re-engineering with evolutionary algorithms. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 155–162, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
  - [15] Bir Bhanu and Yingqiang Lin. Learning composite operators for object detection. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1003–1010, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
  - [16] Mauro Birattari, Thomas Stützle, Luis Paquete, and Klaus Varrentrapp. A racing algorithm for configuring metaheuristics. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 11–18, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
  - [17] T. M. Blackwell and P. J. Bentley. Dynamic search with charged swarms. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 19–26, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
  - [18] Christian Blum. Ant colony optimization for the edge-weighted  $k$ -cardinality tree problem. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan,

- V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 27–34, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [19] Christian Blum, Michael Sampels, and Mark Zloch. On A particularity in model-based search. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 35–42, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [20] Josh C. Bongard and Rolf Pfeifer. Behavioural selection pressure generates hierarchical genetic regulatory networks. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 132, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [21] Mariusz Boryczka and Zbigniew J. Czech. Solving approximation problems by ant colony programming. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 133, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [22] Leonardo Bottaci. Instrumenting programs with flag variables for test data search by genetic algorithms. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1337–1342, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [23] Anthony Brabazon, Michael O’Neill, Robin Matthews, and Conor Ryan. Grammatical evolution and corporate failure prediction. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1011–1018, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [24] Thang N. Bui and Lisa C. Strite. An ant system algorithm for graph bisection. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 43–51, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [25] Larry Bull. Lookahead and latent learning in ZCS. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 897–904, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [26] Larry Bull and Toby O’Hara. Accuracy-based neuro and neuro-fuzzy classifier systems. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 905–911, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [27] Larry Bull, Dave Wyatt, and Ian Parmee. Towards the use of XCS in interactive evolutionary design. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 951, New York, 9-13 July 2002. Morgan Kaufmann Publishers.

- [28] John A. Bullinaria. The evolution of variable learning rates. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 52–59, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [29] Raymond Burke, Steven Gustafson, and Graham Kendall. A survey and analysis of diversity measures in genetic programming. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 716–723, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [30] Jason S. Byassee and Keith E. Mathias. Expediting genetic search with dynamic memory. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 295–302, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [31] Erick Cantú-Paz. Feature subset selection by estimation of distribution algorithms. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 303–310, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [32] Erick Cantú-Paz. On random numbers and the performance of genetic algorithms. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 311–318, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [33] Erick Cantú-Paz and Chandrika Kamath. Evolving neural networks for the classification of galaxies. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1019–1026, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [34] Mathieu S. Capcarrere. Evolution of asynchronous cellular automata: Finding the good compromise. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 134, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [35] Robert Carr, William Hart, Natalio Krasnogor, Jonathan Hirst, Edmund Burke, and James Smith. Alignment of protein structures with A memetic evolutionary algorithm. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1027–1034, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [36] Deborah R. Carvalho and Alex A. Freitas. A genetic algorithm with sequential niching for discovering small-disjunct rules. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1035–1042, New York, 9–13 July 2002. Morgan Kaufmann Publishers.

- [37] Flor A. Castillo, Ken A. Marshall, James L. Green, and Arthur K. Kordon. Symbolic regression in design of experiments: A case study with linearizing transformations. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1043–1047, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [38] Jian-Hung Chen, David E. Goldberg, Shinn-Ying Ho, and Kumara Sastry. Fitness inheritance in multi-objective optimization. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 319–326, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [39] Ping Chen, Zhaohui Fu, Ping Chen, and Andrew Lim. Using genetic algorithms to solve the yard allocation problem. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1049–1056, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [40] Sung-Soon Choi and Byung-Ro Moon. Isomorphism, normalization, and A genetic algorithm for sorting network optimization. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 327–334, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [41] Sung-Soon Choi and Byung-Ro Moon. More effective genetic search for the sorting network problem. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 335–342, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [42] Sung-Soon Choi and Byung-Ro Moon. Optimized interest metric of rules and one-to-one marketing using connection networks. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 1259, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [43] H. W. Chong and Sam Kwong. A genetic algorithm for joint optimization of spare capacity and delay in self-healing network. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 1260, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [44] Manuel Clergue, Philippe Collard, Marco Tomassini, and Leonardo Vanneschi. Fitness distance correlation and problem difficulty for genetic programming. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 724–732, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [45] Carlos A. Coello Coello and Ricardo Landa Becerra. Adding knowledge and efficient data structures to evolutionary programming: A cultural algorithm for constrained optimization. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan,

- V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 201–209, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [46] Clare Bates Congdon. Gaphyl: An evolutionary algorithms approach for the study of natural evolution. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1057–1064, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
  - [47] Alex Conradie, Risto Miikkulainen, and Christiaan Aldrich. Adaptive control utilising neural swarming. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 60–67, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
  - [48] Jason Cooper and Chris Hinde. Comparison of evolving against peers and fixed opponents using corewars. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 887, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
  - [49] Raphael Crawford-Marks and Lee Spector. Size control via size fair genetic operators in the PushGP genetic programming system. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 733–739, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
  - [50] Martin Danek and Robert E. Smith. XCS applied to mapping FPGA architectures. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 912–919, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
  - [51] Sanjoy Das, Shekhar V. Gosavi, William H. Hsu, and Shilpa A. Vaze. An ant colony approach for the Steiner tree problem. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 135, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
  - [52] John DeLaurentis, Lauren Ferguson, and William E. Hart. On the convergence properties of A simple self-adaptive evolutionary algorithm. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 229–237, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
  - [53] Dirk Devogelaere and Marcel Rijckaert. Influences of clustering modifications on the performance of the genetic algorithm driven clustering algorithm. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 678, New York, 9–13 July 2002. Morgan Kaufmann Publishers.

- [54] Federico Divina and Elena Marchiori. Evolutionary concept learning. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 343–350, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [55] Marc Ebner, Hans-Georg Breunig, and Jürgen Albert. On the use of negative selection in an artificial immune system. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 957–964, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [56] L. Elliott, D. B. Ingham, A. G. Kyne, N. S. Mera, M. Pourkashanian, and C. W. Wilson. A real coded genetic algorithm for the optimisation of reaction rate parameters for chemical kinetic modelling in A perfectly stirred reactor. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 1261, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [57] Maria Cláudia Figueiredo Pereira Emer and Silva Regina Vergilio. GPTesT: A testing tool based on genetic programming. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1343–1350, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [58] A. Sima Etaner-Uyar and A. Emre Harmanci. Preserving diversity in changing environments through diploidy with adaptive dominance. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 679, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [59] Zhun Fan, Kisung Seo, Ronald C. Rosenberg, Jianjun Hu, and Erik D. Goodman. Exploring multiple design topologies using genetic programming and bond graphs. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1073–1080, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [60] Sean L. Forman. Congressional redistricting using A TSP-based genetic algorithm. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 1262, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [61] Chunsheng Fu and Lawrence Davis. A modified classifier system compaction algorithm. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 920–925, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [62] Christian Gagné and Marc Parizeau. Open BEAGLE: A new C++ evolutionary computation framework. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 888, New York, 9-13 July 2002. Morgan Kaufmann Publishers.

- [63] César Galindo-Legaria and Florian Waas. The effect of cost distributions on evolutionary optimization algorithms. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 351–358, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [64] John C. Gallagher and Saranyan Vigraham. A modified compact genetic algorithm for the intrinsic evolution of continuous time recurrent neural networks. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 163–170, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [65] Héctor Fernando Gómez García, Arturo González Vega, Arturo Hernández Aguirre, and Carlos Coello Coello. Efficient affine 2D-image registration using evolutionary strategies. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 1263, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [66] Simon M. Garrett and Joanne H. Walker. Combining evolutionary and non-evolutionary methods in tracking dynamic global optima. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 359–366, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [67] Mario Giacobini, Marco Tomassini, and Leonardo Vanneschi. How statistics can help in limiting the number of fitness cases in genetic programming. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 889, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [68] Marco César Goldberg, Elizabeth Ferreira Gouvêa, and Francisco Dantas de Medeiros Neto. Piston pump mobile unity tour problem: An evolutionary view. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 1264, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [69] Alberto Gómez, David de la Fuente, Jose Parreño, and Javier Puente. Using genetic algorithms to optimize guillotine cutting operations. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 1265, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [70] Fabio A. González and Dipankar Dasgupta. An imunogenetic technique to detect anomalies in network traffic. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1081–1088, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [71] William A. Greene. A genetic algorithm with self-distancing bits but no overt linkage. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and



- N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 367–374, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [72] Hans-Gerhard Groß and Nikolas Mayer. Evolutionary testing in component-based real-time system construction. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 1393, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [73] R. Groß, K. Albrecht, W. Kantschik, and W. Banzhaf. Evolving chess playing programs. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 740–747, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [74] Lutz Hamel. Breeding algebraic structures—an evolutionary approach to inductive equational logic programming. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 748–755, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [75] Karim Hamza, Haitham Mahmoud, and Kazuhiro Saitou. Design optimization of N-shaped roof trusses. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1089–1096, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [76] Mark Harman, Robert Hierons, and Mark Proctor. A new representation and crossover operator for search-based optimization of software modularization. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1351–1358, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [77] Mark Harman, Lin Hu, Robert Hierons, André Baresel, and Harmen Sthamer. Improving evolutionary testing by flag removal. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1359–1366, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [78] Morten Hartmann, Frode Eskelund, Pauline C. Haddow, and Julian F. Miller. Evolving fault tolerance on an unreliable technology platform. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 171–177, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [79] Karl Hedman, David Persson, Per Skoglund, Dan Wiklund, Krister Wolff, and Peter Nordin. Sensing and direction in locomotion learning with A random morphology robot. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 1297, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [80] Alex C. H. Ho and Sam Kwong. Optimization of CDMA based wireless system. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and

N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 1266, New York, 9-13 July 2002. Morgan Kaufmann Publishers.

- [81] R. J. W. Hodgson. Partical swarm optimization applied to the atomic cluster optimization problem. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 68–73, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [82] Steffen G. Hohmann, Johannes Schemmel, Felix Schürmann, and Karlheinz Meier. Exploring the parameter space of A genetic algorithm for training an analog neural network. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 375–382, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [83] Daniel Howard and Simon C. Roberts. Application of genetic programming to motorway traffic modelling. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1097–1104, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [84] Daniel Howard, Simon C. Roberts, and Conor Ryan. Machine vision: Exploring context with genetic programming. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 756–763, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [85] William H. Hsu, Haipeng Guo, Benjamin B. Perry, and Julie A. Stilson. A permutation genetic algorithm for variable ordering in learning Bayesian networks from data. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 383–390, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [86] William H. Hsu and Steven M. Gustafson. Genetic programming and multi-agent layered learning by reinforcements. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 764–771, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [87] William H. Hsu, Cecil P. Schmidt, and James A. Louis. Genetic algorithm wrappers for feature subset selection in supervised inductive learning. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 680, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [88] Jianjun Hu, Erik D. Goodman, Kisung Seo, and Min Pei. Adaptive hierarchical fair competition (AHFC) model for parallel evolutionary algorithms. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 772–779, New York, 9-13 July 2002. Morgan Kaufmann Publishers.

- [89] Jianjun Hu, Kisung Seo, Shaobo Li, Zhun Fan, Ronald C. Rosenberg, and Erik D. Goodman. Structure fitness sharing (SFS) for evolutionary design by genetic programming. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 780–787, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [90] Chien-Feng Huang. A Markov chain analysis of fitness proportional mate selection schemes in genetic algorithm. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 682, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [91] Chien-Geng Huang. A study of fitness proportional mate selection schemes in genetic algorithms. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 681, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [92] Michael Hüskens and Christian Igel. Balancing learning and evolution. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 391–398, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [93] Hitoshi Iba and Erina Sakamoto. Inference of differential equation models by genetic programming. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 788–795, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [94] Kosuke Imamura, Robert B. Heckendorn, Terence Soule, and James A. Foster. Abstention reduces errors—decision abstaining N-version genetic programming. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 796–803, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [95] Hisao Ishibuchi and Takashi Yamamoto. Fuzzy rule selection by data mining criteria and genetic algorithms. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 399–406, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [96] Hisao Ishibuchi, Tadashi Yoshida, and Tadahiko Murata. Balance between genetic search and local search in hybrid evolutionary multi-criterion optimization algorithms. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1301–1308, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [97] Thomas Jansen and Kenneth De Jong. An analysis of the role of offspring population size in EAs. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 238–246, New York, 9-13 July 2002. Morgan Kaufmann Publishers.

- [98] Zhou Ji and Dipankar Dasgupta. Modeling convection coefficients with genetic algorithms. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 1267, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [99] Yaochu Jin and Bernhard Sendhoff. Fitness approximation in evolutionary computation—a survey. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1105–1112, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [100] Yaochu Jin and Bernhard Sendhoff. Incorporation of fuzzy preferences into evolutionary multiobjective optimization. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 683, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [101] David J. John. Co-evolution with the Bierwirth-Mattfeld hybrid scheduler. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 259, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [102] Soonchul Jung and Byung-Ro Moon. A hybrid genetic algorithm for the vehicle routing problem with time windows. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1309–1316, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [103] Li-Shan Kang, Zhou Kang, Yan Li, and Hugo De Garis. A two level evolutionary modeling system for financial data. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1113–1118, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [104] Hironobu Katagiri, Kotaro Hirasawa, Jinglu Hu, and Junichi Murata. A new model to realize variable size genetic network programming. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 890, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [105] Christian Keber and Matthias G. Schuster. Option valuation with generalized ant programming. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 74–81, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [106] Nazan Khan, David E. Goldberg, and Martin Pelikan. Multiple-objective Bayesian optimization algorithm. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 684, New York, 9-13 July 2002. Morgan Kaufmann Publishers.

- [107] Jong-Pil Kim and Byung-Ro Moon. A hybrid genetic search for circuit bipartitioning. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 685, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [108] Jung-Hwan Kim and Byung-Ro Moon. Neuron reordering for better neuro-genetic hybrids. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 407–414, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [109] Yong-Hyuk Kim and Byung-Ro Moon. Visualization of the fitness landscape, A steady-state genetic search, and schema traces. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 686, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [110] Steven O. Kimbrough, Ming Lu, David Harlan Wood, and D. J. Wu. Exploring A two-market genetic algorithm. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 415–422, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [111] Colin Kirsopp, Martin Shepperd, and John Hart. Search heuristics, case-based reasoning and software project effort prediction. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1367–1374, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [112] Kosmas Knödler, Jan Poland, Andreas Zell, and A. Mitterer. Memetic algorithms for combinatorial optimization problems in the calibration of modern combustion engines. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 687, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [113] Thomas E. Koch and Andreas Zell. MOCS: Multi-objective clustering selection evolutionary algorithm. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 423–430, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [114] Gabriella Kókai, Zoltán Tóth, and Szilvia Zvada. An experimental comparison of genetic and classical concept learning methods. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 952, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [115] Emin Erkan Korkmaz and Göktürk Üçoluk. Controlling the genetic programming search. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 891, New York, 9-13 July 2002. Morgan Kaufmann Publishers.

- [116] Alexander Kosorukoff. Using incremental evaluation and adaptive choice of operators in A genetic algorithm. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 688, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [117] Alexander Kosorukoff and David E. Goldberg. Evolutionary computation as A form of organization. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 965–972, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [118] Jeremy Kubica and Eleanor Rieffel. Collaborating with A genetic programming system to generate modular robotic code. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 804–811, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [119] Sujay V. Kumar and S. Ranji Ranjithan. Evaluation of the constraint method-based evolutionary algorithm (CMEA) for A three-objective problem. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 431–438, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [120] Yung-Keun Kwon, Sung-Deok Hong, and Byung-Ro Moon. A genetic hybrid for critical heat flux function approximation. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1119–1125, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [121] Samuel Landau, Sébastien Picault, Oliver Sigaud, and Pierre Gérard. A comparison between ATNoSFERES and XCSM. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 926–933, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [122] W. B. Langdon. Convergence rates for the distribution of program outputs. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 812–819, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [123] Otavio Larsen, Alex A. Freitas, and Julio C. Nievola. Constructing X-of-n attributes with A genetic algorithm. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 1268, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [124] Marco Laumanns, Lothar Thiele, Eckart Zitzler, and Kalyanmoy Deb. Archiving with guaranteed convergence and diversity in multi-objective optimization. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO*

2002: *Proceedings of the Genetic and Evolutionary Computation Conference*, pages 439–447, New York, 9–13 July 2002. Morgan Kaufmann Publishers.

- [125] Nicole P. Leahy. Effects of agent representation on the behavior of A non-reciprocal cooperation game. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 82–87, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [126] Sang-Yon Lee, Sung-Soon Choi, and Byung-Ro Moon. Search improvement by genetic algorithms with A semiotic network. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1126–1132, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [127] Seung-Kyu Lee, Dong-Il Seo, and Byung-Ro Moon. A hybrid genetic algorithm for optimal hexagonal tortoise problem. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 689, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [128] T. Lenaerts, A. Defaweux, P. Van Remortel, and B. Manderick. An individual-based approach to multi-level selection. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 136, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [129] Suihong Liang, A. Nur Zincir-Heywood, and Malcolm I. Heywood. Intelligent packets for dynamic network routing using distributed genetic algorithm. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 88–96, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [130] Derek S. Linden. Antenna design using genetic algorithm. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1133–1140, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [131] Yong Liu and Xin Yao. Maintaining population diversity by minimizing mutual information. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 448–455, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [132] Yong Liu and Xin Yao. Search step size control in fast evolutionary programming. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 225, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [133] Xavier Llorà and Josep M. Garrell. Coevolving different knowledge representations with fine-grained parallel learning classifier systems. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 934–941, New York, 9–13 July 2002. Morgan Kaufmann Publishers.

- [134] Sean Luke and Liviu Panait. Is the perfect the enemy of the good? In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 820–828, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [135] Sean Luke and Liviu Panait. Lexicographic parsimony pressure. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 829–836, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [136] Penousal Machado, Jorge Tavares, Francisco B. Pereira, and Ernesto Costa. Vehicle routing problem: Doing it the evolutionary way. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 690, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [137] Jiangming Mao, Kotaro Hirasawa, Jinglu Hu, and Junichi Murata. Increasing robustness of genetic algorithm. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 456–462, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [138] Peter Martin. An analysis of random number generators for A hardware implementation of genetic programming using FPGAs and Handel-C. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 837–844, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [139] Peter Martin and Riccardo Poli. Crossover operators for A hardware implementation of GP using FPGAs and Handel-C. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 845–852, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [140] Hassan Masum, Steffen Christensen, and Franz Oppacher. The turing ratio: Metrics for open-ended tasks. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 973–980, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [141] Keith E. Mathias and Jason S. Byassee. Agent support of genetic search in an immunological model of sparse distributed memory. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 97–104, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [142] Shouichi Matsui, Isamu Watanabe, and Ken ichi Tokoro. An efficient genetic algorithm for fixed channel assignment problem with limited bandwidth constraint. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 1269, New York, 9-13 July 2002. Morgan Kaufmann Publishers.



- [143] Nicholas Freitag McPhee and Riccardo Poli. Using schema theory to explore interactions of multiple operators. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 853–860, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [144] Anil Menon. The point of point crossover: Shuffling to randomness. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 463–471, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [145] Daniel Merkle and Martin Middendorf. Studies on the dynamics of ant colony optimization algorithms. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 105–112, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [146] Peter Merz. A comparison of memetic recombination operators for the traveling salesman problem. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 472–479, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [147] Mark M. Meyesenburg, Dan Hoelting, Duane McElvain, and James A. Foster. A genetic algorithm-specific test of random generator quality. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 691, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [148] Mark M. Meyesenburg, Daniel Hoelting, Duane McElvain, and James A. Foster. How random generator quality impacts GA performance. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 480–487, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [149] Brian S. Mitchell and Spiros Mancoridis. Using heuristic search techniques to extract design abstractions from source code. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1375–1382, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [150] David Montana, Talib Hussain, and Tushar Saxena. Adaptive reconfiguration of data networks using genetic algorithms. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1141–1149, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [151] Jason H. Moore, Lance W. Hahn, Marylyn D. Ritchie, Tricia A. Thornton, and Bill C. White. Application of genetic algorithms to the discovery of complex models for simulation studies in human genetics. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz,

- J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1150–1155, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [152] Boris Naujoks, Werner Haase, Jörg Ziegenhirt, and Thomas Bäck. Multi objective airfoil design using single parent populations. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1156–1163, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [153] Filippo Neri. Cooperative concept learning by means of A distributed GA. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 953, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [154] Miguel Nicolau and Conor Ryan. LINKGAUGE: Tackling hard deceptive problems with A new linkage learning genetic algorithm. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 488–494, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [155] Nattee Niparnan and Prabhas Chongstitvatana. An improved genetic algorithm for the inference of finite state machine. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 189, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [156] Gabriela Ochoa. Setting the mutation rate: Scope and limitations of the  $1/L$  heuristic. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 495–502, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [157] V. Oduguwa and R. Roy. Multi-objective optimisation of rolling rod product design using meta-modelling approach. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1164–1171, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [158] Tatsuya Okabe, Yaochu Jin, and Bernhard Sendhoff. On the dynamics of evolutionary multi-objective optimization. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 247–256, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [159] Carlos Oliver-Morales and Katya Rodríguez Vázquez. MB GP in modelling and prediction. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 892, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
  - [160] Ronald Olson and Brock Wilcox. Self-improvement for the ADATE automatic programming system. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke,

and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 893, New York, 9-13 July 2002. Morgan Kaufmann Publishers.

- [161] Fernando E. B. Otero, Monique M. S. Silvia, and Alex A. Freitas. Genetic programming for attribute construction in data mining. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 1270, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [162] Liviu Panait and Sean Luke. A comparison of two competitive fitness functions. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 503–511, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [163] Johan Parent and Ann Nowe. Evolving compression preprocessors with genetic programming. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 861–867, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [164] Eun-Jong Park, Yong-Hyuk Kim, and Byung-Ro Moon. Genetic search for fixed channel assignment problem with limited bandwidth. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1172–1179, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [165] Gary B. Parker. Learning area coverage using the co-evolution of model parameters. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1286–1294, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [166] Martin Pelikan, David E. Goldberg, and Shigeyoshi Tsutsui. Combining the strengths of Bayesian optimization algorithm and adaptive evolution strategies. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 512–519, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [167] Olivier Pelletier and André Weimerskirch. Algorithmic self-assembly of DNA tiles and its application to cryptanalysis. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 139–146, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [168] James E. Pettinger and Richard M. Everson. Controlling genetic algorithms with reinforcement learning. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 692, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [169] Anthony Di Pietro, Lyndon While, and Luigi Barone. Learning in RoboCup keepaway using evolutionary algorithms. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic*

and *Evolutionary Computation Conference*, pages 1065–1072, New York, 9–13 July 2002. Morgan Kaufmann Publishers.

- [170] Riccardo Poli, Christopher R. Stephens, Alden H. Wright, and Jonathan E. Rowe. On the search biases of homologous crossover in linear genetic programming and variable-length genetic algorithms. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 868–876, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [171] Jumpol Polvichai and Pradeep Khosla. Applying dynamic networks to improve learning performances of an evolutionary behavior programming system for mobile robots in dynamic environments. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 1298, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [172] Oclair Prado and Fernando J. Von Zuben. An integrated system for phylogenetic inference using evolutionary algorithms. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 693, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [173] Robin C. Purshouse and Peter J. Fleming. Why use elitism and sharing in A multi-objective genetic algorithm? In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 520–527, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [174] Khaled Rasheed, Swaroop Vattam, and Xiao Ni. Comparison of methods for using reduced models to speed up design optimization. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1180–1187, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [175] Marc Reimann, Michael Stummer, and Karl Doerner. A savings based ant system for the vehicle routing problem. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1317–1326, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [176] Wesley Romão, Alex A. Freitas, and Roberto C. S. Pacheco. A genetic algorithm for discovering interesting fuzzy prediction rules: Applications to science and technology data. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1188–1195, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [177] Robert S. Roos, Tiffany Bennett, Jennifer Hannon, and Elizabeth Zehner. A genetic algorithm for improved shellsort sequences. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 694, New York, 9–13 July 2002. Morgan Kaufmann Publishers.

- [178] Brian J. Ross, Anthony G. Gualtieri, Frank Fueten, and Paul Budkewitsch. Hyperspectral image analysis using genetic programming. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1196–1203, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [179] Peter Ross, Sonia Schulenburg, Javier Marín-Blázquez, and Emma Hart. Hyper-heuristics: Learning to combine simple heuristics in bin-packing problems. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 942–948, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [180] Franz Rothlauf. The influence of binary representations of integers on the performance of selectorecombinative genetic algorithms. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 695, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [181] Kumara Sastry and David E. Goldberg. Genetic algorithms, efficiency enhancement, and deciding well with differing fitness bias values. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 536–543, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [182] Kumara Sastry and David E. Goldberg. Genetic algorithms, efficiency enhancement, and deciding well with differing fitness variances. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 528–535, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [183] Yuji Sato. Voice conversion using interactive evolution of prosodic control. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1204–1211, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [184] J. David Schaffer, Lalitha Agnihotri, Nevenka Dimitrova, Thomas McGee, and Sylvie Jeannin. Improving digital video commercial detectors with genetic algorithms. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1212–1218, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [185] Ivan Sekaj, Martin Foltin, and Michal Gonos. Genetic algorithm based adaptive control of an electromechanical MIMO system. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 696, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [186] Mikhail A. Semenov. Convergence velocity of evolutionary algorithm with self-adaptation. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 210–213, New York, 9-13 July 2002. Morgan Kaufmann Publishers.

- [187] Dong-Il Seo and Byung-Ro Moon. Voronoi quantized crossover for traveling salesman problem. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 544–552, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [188] Anabela Simões and Ernesto Costa. Parametric study to enhance the genetic algorithm’s performance when using transformation. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 697, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [189] Anabela Simões and Ernesto Costa. Using GAs to deal with dynamic environments: A comparative study of several approaches based on promoting diversity. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 698, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [190] Abhishek Singh, David E. Goldberg, and Ying-Ping Chen. Modified linkage learning genetic algorithm for difficult non-stationary problems. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 699, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [191] Hiroshi Someya and Masayuki Yamamura. Robust evolutionary algorithms with toroidal search space conversion for function optimization. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 553–560, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [192] Alexander V. Spirov and Alexander B. Kazansky. Jumping genes-mutators can rise efficacy of evolutionary search. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 561–568, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [193] Kenneth O. Stanley and Risto Miikkulainen. Continual coevolution through complexification. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 113–120, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [194] Kenneth O. Stanley and Risto Miikkulainen. Efficient reinforcement learning through evolving neural network topologies. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 569–577, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [195] Christopher R. Stephens, Riccardo Poli, Alden H. Wright, and Jonathan E. Rowe. Exact results from A coarse grained formulation of the dynamics of variable-length genetic algorithms. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 578–585, New York, 9-13 July 2002. Morgan Kaufmann Publishers.

- [196] Christopher Stone and Jim Smith. Strategy parameter variety in self-adaptation of mutation rates. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 586–593, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [197] Matthew J. Streeter, Martin A. Keane, and John R. Koza. Iterative refinement of computational circuits using genetic programming. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 877–884, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [198] Hal Stringer and Annie S. Wu. A simple method for detecting domino convergence and identifying salient genes within A genetic algorithm. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 594–601, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [199] Keiki Takadama, Yutaka L. Suematsu, Norberto E. Nawa, and Katsunori Shimohara. Cross-validation in multiagent-based simulation: Analyzing evolutionary bargaining agents. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 121–128, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [200] Ivan T. Tanev, Takashi Uozumi, and Yoshiharu Morotome. An application service provider approach for hybrid evolutionary algorithm-based real-world flexible job shop scheduling problem. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1219–1226, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [201] Uwe Tangen. An evolvable micro-controller or what’s new about mutations? In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 178–186, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [202] Ashutosh Tiwari and Rajkumar Roy. Variable dependence interaction and multi-objective optimisation. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 602–609, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [203] Huai-Kuang Tsai, Jinn-Moon Yang, and Cheng-Yan Kao. Applying genetic algorithms to finding the optimal gene order in displaying the microarray data. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 610–617, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [204] Alexander F. Tulai and Franz Oppacher. Combining competitive and cooperative coevolution for training cascade neural networks. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the*

*Genetic and Evolutionary Computation Conference*, pages 618–625, New York, 9-13 July 2002. Morgan Kaufmann Publishers.

- [205] Tapio Tyni and Jari Ylinen. Bi-directional circular linked lists in fitness caching. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 700, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [206] Takanori Ueda, Nobuto Koga, Isao Ono, and Masahiro Okamoto. Application of numerical optimization technique based on real-coded genetic algorithm to inverse problem in biochemical systems. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 701, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [207] Supiya Ujjin and Peter J. Bentley. Evolving good recommendations. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 1271, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [208] Edgar E. Vallejo and Fernando Ramos. Evolving finite automata with two-dimensional output for DNA recognition and visualization. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 1272, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [209] Terry Van Belle and David H. Ackley. Code factoring and the evolution of evolvability. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1383–1390, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [210] Clarissa Van Hoyweghen, David E. Goldberg, and Bart Naudts. From twomax to the ising model: Easy and hard symmetrical problems. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 626–633, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [211] Andre Vogel, Marco Fischer, and Tobias Teich. Real-world shop floor scheduling by ant colony optimization. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 1273, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [212] Mark S. Voss and Xin Feng. A new methodology for emergent system identification using particle swarm optimization (PSO) and the group method data handling (GMDH). In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1227–1232, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [213] Dana Vrajitoru. Simulating gender separation with genetic algorithms. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors,



*GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 634–641, New York, 9–13 July 2002. Morgan Kaufmann Publishers.

- [214] Xiaotong Wang, Lawrence Davis, and Chunsheng Fu. Genetic algorithms and fine-grained topologies for optimization. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 981–988, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [215] Shinya Watanabe, Tomoyuki Hiroyasu, and Mitsunori Miki. LCGA: Local cultivation genetic algorithm for multi-objective optimization problems. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 702, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [216] Joachim Wegener, Kerstin Buhr, and Hartmut Pohlheim. Automatic test data generation for structural testing of embedded software systems by evolutionary testing. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1233–1240, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [217] Mark S. Withall, Chris J. Hinde, and Roger G. Stone. Evolving readable Perl. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 894, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [218] Man Leung Wong, Shing Yan Lee, and Kwong Sak Leung. A hybrid data mining approach to discover Bayesian networks using evolutionary programming. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 214–222, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [219] Alden H. Wright, Jonathan E. Rowe, Riccardo Poli, and Christopher R. Stephens. A fixed point analysis of A gene pool GA with mutation. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 642–649, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [220] Annie S. Wu and Ivan Garibay. The proportional genetic algorithm representation. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 703, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [221] L. Wu, W. D. Potter, K. Rasheed, H. Thistle, J. Ghent, D. Twardus, and M. Teske. A comparison of genetic algorithm methods in aerial spray deposition management. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 1274, New York, 9–13 July 2002. Morgan Kaufmann Publishers.
- [222] Shengxiang Yang. Adaptive non-uniform crossover based on statistics for genetic algorithms. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke,

and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 650–657, New York, 9-13 July 2002. Morgan Kaufmann Publishers.

- [223] Abdalnasser Younes, Hamada Ghenniwa, and Shawki Areibi. An adaptive genetic algorithm for multi objective flexible manufacturing systems. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1241–1248, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [224] Tina Yu and Julian Miller. Climbing unimodal landscapes with neutrality: A case study of the one-max problem. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 704, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [225] Xiaoming Yu, Alessandro Fin, Franco Fummi, and Elizabeth M. Rudnick. Functional test generation for digital integrated circuits using A genetic algorithm. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 1275, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [226] Bernard Yurke and Friedrich C. Simmel. A DNA-based three-state device. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 147–152, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [227] Jian Zhang, Xiaohui Yuan, and Bill P. Buckles. A fast evolution strategies based approach to image registration. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 1249–1256, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [228] Zhong-Yao Zhu and Kwong-Sak Leung. An enhanced annealing genetic algorithm for multi-objective optimization problems. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 658–665, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [229] Eckart Zitzler, Marco Laumanns, Lothar Thiele, Carlos M. Foneseca, and Viviane Grunert da Fonseca. Why quality assessment of multiobjective optimizers is difficult. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, pages 666–674, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [230] Jesse B. Zydallis, Todd A. Sriver, and Gary B. Lamont. Multiobjective evolutionary algorithm approach for solving integer based optimization problems. In W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller, E. Burke, and N. Jonoska, editors, *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, page 1276, New York, 9-13 July 2002. Morgan Kaufmann Publishers.
- [231] W. B. Langdon, E. Cantú-Paz, K. Mathias, R. Roy, D. Davis, R. Poli, K. Balakrishnan, V. Honavar, G. Rudolph, J. Wegener, L. Bull, M. A. Potter, A. C. Schultz, J. F. Miller,

E. Burke, and N. Jonoska, editors. *GECCO 2002: Proceedings of the Genetic and Evolutionary Computation Conference*, New York, 9-13 July 2002. Morgan Kaufmann Publishers.