

Список литературы

- [1] A. Agogino and K. Tumer, Efficient evaluation functions for multi-rover systems, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1–11, Seattle, WA, USA, 2004, Springer-Verlag.
- [2] A. Brabazon, A. Silva, T. F. de Sousa, M. O’Neill, R. Matthews, and E. Costa, A particle swarm model of organizational adaptation, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 12–23, Seattle, WA, USA, 2004, Springer-Verlag.
- [3] T. N. Bui and J. R. Rizzo, Finding maximum cliques with distributed ants, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 24–35, Seattle, WA, USA, 2004, Springer-Verlag.
- [4] T. N. Bui and G. Sundarraj, Ant system for the k-cardinality tree problem, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 36–47, Seattle, WA, USA, 2004, Springer-Verlag.
- [5] D. M. Chitty and M. L. Hernandez, A hybrid ant colony optimisation technique for dynamic vehicle routing, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 48–59, Seattle, WA, USA, 2004, Springer-Verlag.
- [6] D. Cornforth and M. Kirley, Cooperative problem solving using an agent-based market, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 60–71, Seattle, WA, USA, 2004, Springer-Verlag.
- [7] D. Curran and C. O’Riordan, Cultural evolution for sequential decision tasks: Evolving tic-tac-toe players in multi-agent systems, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 72–80, Seattle, WA, USA, 2004, Springer-Verlag.
- [8] K. L. Downing, Artificial life and natural intelligence, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 81–92, Seattle, WA, USA, 2004, Springer-Verlag.
- [9] T. Kowaliw, P. Grogono, and N. Kharm, Bluenome: A novel developmental model of artificial morphogenesis, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 93–104, Seattle, WA, USA, 2004, Springer-Verlag.

- [10] X. Li, Adaptively choosing neighbourhood bests using species in a particle swarm optimizer for multimodal function optimization, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 105–116, Seattle, WA, USA, 2004, Springer-Verlag.
- [11] X. Li, Better spread and convergence: Particle swarm multiobjective optimization using the maximin fitness function, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 117–128, Seattle, WA, USA, 2004, Springer-Verlag.
- [12] J. F. Miller, Evolving a self-repairing, self-regulating, french flag organism, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 129–139, Seattle, WA, USA, 2004, Springer-Verlag.
- [13] C. K. Monson and K. D. Seppi, The kalman swarm: A new approach to particle motion in swarm optimization, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 140–150, Seattle, WA, USA, 2004, Springer-Verlag.
- [14] T. Nakano and T. Suda, Adaptive and evolvable network services, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 151–162, Seattle, WA, USA, 2004, Springer-Verlag.
- [15] M. O’Neill and A. Brabazon, Grammatical swarm, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 163–174, Seattle, WA, USA, 2004, Springer-Verlag.
- [16] E. Sapin, O. Bailleux, J.-J. Chabrier, and P. Collet, A new universal cellular automaton discovered by evolutionary algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 175–187, Seattle, WA, USA, 2004, Springer-Verlag.
- [17] Y. Semet, U.-M. O’Reilly, and F. Durand, An interactive artificial ant approach to non-photorealistic rendering, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 188–200, Seattle, WA, USA, 2004, Springer-Verlag.
- [18] W. A. Talbott, Automatic creation of team-control plans using an assignment branch in genetic programming, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 201–212, Seattle, WA, USA, 2004, Springer-Verlag.

- [19] I. Tanev and K. Yuta, Implications of epigenetic learning via modification of histones on performance of genetic programming, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 213–224, Seattle, WA, USA, 2004, Springer-Verlag.
- [20] G. T. Pulido and C. A. C. Coello, Using clustering techniques to improve the performance of a multi-objective particle swarm optimizer, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 225–237, Seattle, WA, USA, 2004, Springer-Verlag.
- [21] X.-F. Xie and W.-J. Zhang, Swaf: Swarm algorithm framework for numerical optimization, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 238–250, Seattle, WA, USA, 2004, Springer-Verlag.
- [22] A. Berro and S. Sanchez, Autonomous agent for multi-objective optimization, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 251–252, Seattle, WA, USA, 2004, Springer-Verlag.
- [23] D. M. Chitty, An evolved autonomous controller for satellite task scheduling, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 253–254, Seattle, WA, USA, 2004, Springer-Verlag.
- [24] S. Dignum and R. Poli, Multi-agent foreign exchange market modelling via gp, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 255–256, Seattle, WA, USA, 2004, Springer-Verlag.
- [25] R. Drewes, J. Maciokas, S. J. Louis, and P. Goodman, An evolutionary autonomous agent with visual cortex and recurrent spiking columnar neural network, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 257–258, Seattle, WA, USA, 2004, Springer-Verlag.
- [26] O. Gómez and B. Barán, Arguments for aco’s success, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 259–260, Seattle, WA, USA, 2004, Springer-Verlag.
- [27] X.-F. Xie and W.-J. Zhang, Solving engineering design problems by social cognitive optimization, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 261–262, Seattle, WA, USA, 2004, Springer-Verlag.
- [28] G. Dozier, D. Brown, J. Hurley, and K. Cain, Vulnerability analysis of immunity-based intrusion detection systems using evolutionary hackers, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke,

- P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 263–274, Seattle, WA, USA, 2004, Springer-Verlag.
- [29] X. Hang and H. Dai, Constructing detectors in schema complementary space for anomaly detection, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 275–286, Seattle, WA, USA, 2004, Springer-Verlag.
- [30] Z. Ji and D. Dasgupta, Real-valued negative selection algorithm with variable-sized detectors, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 287–298, Seattle, WA, USA, 2004, Springer-Verlag.
- [31] T. Stibor, K. M. Bayarou, and C. Eckert, An investigation of r-chunk detector generation on higher alphabets, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 299–307, Seattle, WA, USA, 2004, Springer-Verlag.
- [32] J. Timmis and C. Edmonds, A comment on opt-ainet: An immune network algorithm for optimisation, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 308–317, Seattle, WA, USA, 2004, Springer-Verlag.
- [33] Z. qiang Qi, S. min Song, Z. hua Yang, G. da Hu, and F. en Zhang, A novel immune feedback control algorithm and its applications, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 318–320, Seattle, WA, USA, 2004, Springer-Verlag.
- [34] I. Belda, X. Llorà, M. Martinell, T. Tarragó, and E. Giralt, Computer-aided peptide evolution for virtual drug design, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 321–332, Seattle, WA, USA, 2004, Springer-Verlag.
- [35] J. C. Bongard and H. Lipson, Automating genetic network inference with minimal physical experimentation using coevolution, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 333–345, Seattle, WA, USA, 2004, Springer-Verlag.
- [36] Y.-H. Kim, S.-Y. Lee, and B.-R. Moon, A genetic approach for gene selection on microarray expression data, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 346–355, Seattle, WA, USA, 2004, Springer-Verlag.

- [37] P. Koduru, S. Das, S. Welch, and J. L. Roe, Fuzzy dominance based multi-objective ga-simplex hybrid algorithms applied to gene network models, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 356–367, Seattle, WA, USA, 2004, Springer-Verlag.
- [38] C. S. de Magalhães, H. J. Barbosa, and L. E. Dardenne, Selection-insertion schemes in genetic algorithms for the flexible ligand docking problem, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 368–379, Seattle, WA, USA, 2004, Springer-Verlag.
- [39] G. Mauri, R. Mosca, and G. Pavesi, A ga approach to the definition of regulatory signals in genomic sequences, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 380–391, Seattle, WA, USA, 2004, Springer-Verlag.
- [40] J. H. Moore and L. W. Hahn, Systems biology modeling in human genetics using petri nets and grammatical evolution, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 392–401, Seattle, WA, USA, 2004, Springer-Verlag.
- [41] K. Parsopoulos, E. Papageorgiou, P. Groumpos, and M. Vrahatis, Evolutionary computation techniques for optimizing fuzzy cognitive maps in radiation therapy systems, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 402–413, Seattle, WA, USA, 2004, Springer-Verlag.
- [42] T. K. Paul and H. Iba, Identification of informative genes for molecular classification using probabilistic model building genetic algorithm, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 414–425, Seattle, WA, USA, 2004, Springer-Verlag.
- [43] M. R. Peterson, T. E. Doom, and M. L. Raymer, Ga-facilitated knowledge discovery and pattern recognition optimization applied to the biochemistry of protein solvation, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 426–437, Seattle, WA, USA, 2004, Springer-Verlag.
- [44] M. D. Ritchie, C. S. Coffey, and J. H. Moore, Genetic programming neural networks as a bioinformatics tool for human genetics, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 438–448, Seattle, WA, USA, 2004, Springer-Verlag.
- [45] L. Sheneman and J. A. Foster, Evolving better multiple sequence alignments, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L.

- Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 449–460, Seattle, WA, USA, 2004, Springer-Verlag.
- [46] C. Spieth, F. Streichert, N. Speer, and A. Zell, Optimizing topology and parameters of gene regulatory network models from time-series experiments, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 461–470, Seattle, WA, USA, 2004, Springer-Verlag.
 - [47] F. Streichert, H. Planatscher, C. Spieth, H. Ulmer, and A. Zell, Comparing genetic programming and evolution strategies on inferring gene regulatory networks, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 471–480, Seattle, WA, USA, 2004, Springer-Verlag.
 - [48] J.-M. Yang, T.-W. Shen, Y.-F. Chen, and Y.-Y. Chiu, An evolutionary approach with pharmacophore-based scoring functions for virtual database screening, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 481–492, Seattle, WA, USA, 2004, Springer-Verlag.
 - [49] J. S. Aguilar-Ruiz, D. Mateos, R. Giraldez, and J. C. Riquelme, Statistical test-based evolutionary segmentation of yeast genome, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 493–494, Seattle, WA, USA, 2004, Springer-Verlag.
 - [50] E. C. Buehler, S. Das, and J. F. Cully, Equilibrium and extinction in a trisexual diploid mating system: An investigation, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 495–496, Seattle, WA, USA, 2004, Springer-Verlag.
 - [51] D. J. Burns and K. T. May, On parameterizing models of antigen-antibody binding dynamics on surfaces: A genetic algorithm approach and the need for speed, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 497–498, Seattle, WA, USA, 2004, Springer-Verlag.
 - [52] W. Just and X. Sun, Is the predicted ess in the sequential assessment game evolvable?, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 499–500, Seattle, WA, USA, 2004, Springer-Verlag.
 - [53] A. Bucci, J. B. Pollack, and E. de Jong, Automated extraction of problem structure, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 501–512, Seattle, WA, USA, 2004, Springer-Verlag.
 - [54] M. Chang, K. Ohkura, K. Ueda, and M. Sugiyama, Modeling coevolutionary genetic algorithms on two-bit landscapes: Random partnering, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen,

- D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 513–524, Seattle, WA, USA, 2004, Springer-Verlag.
- [55] E. D. de Jong, The incremental pareto-coevolution archive, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 525–536, Seattle, WA, USA, 2004, Springer-Verlag.
- [56] A. W. Iorio and X. Li, A cooperative coevolutionary multiobjective algorithm using non-dominated sorting, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 537–548, Seattle, WA, USA, 2004, Springer-Verlag.
- [57] A. M. Liekens, H. M. ten Eikelder, and P. A. Hilbers, Predicting genetic drift in 2x2 games, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 549–560, Seattle, WA, USA, 2004, Springer-Verlag.
- [58] R. A. Palacios-Durazo and M. Valenzuela-Rendón, Similarities between co-evolution and learning classifier systems and their applications, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 561–572, Seattle, WA, USA, 2004, Springer-Verlag.
- [59] L. Panait, R. P. Wiegand, and S. Luke, A sensitivity analysis of a cooperative coevolutionary algorithm biased for optimization, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 573–584, Seattle, WA, USA, 2004, Springer-Verlag.
- [60] A. Bader-Natal and J. B. Pollack, A population-differential method of monitoring success and failure in coevolution, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 585–586, Seattle, WA, USA, 2004, Springer-Verlag.
- [61] S. Nadimi and B. Bhanu, Cooperative coevolution fusion for moving object detection, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 587–589, Seattle, WA, USA, 2004, Springer-Verlag.
- [62] Y. Inoue, T. Tohge, and H. Iba, Learning to acquire autonomous behavior: Cooperation by humanoid robots, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 590–602, Seattle, WA, USA, 2004, Springer-Verlag.
- [63] R. W. Paine and J. Tani, Evolved motor primitives and sequences in a hierarchical recurrent neural network, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano,

- J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 603–614, Seattle, WA, USA, 2004, Springer-Verlag.
- [64] E. S. Pires, J. T. Machado, and P. de Moura Oliveira, Robot trajectory planning using multi-objective genetic algorithm optimization, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 615–626, Seattle, WA, USA, 2004, Springer-Verlag.
- [65] I. Tanev, T. Ray, and A. Buller, Evolution, robustness, and adaptation of sidewinding locomotion of simulated snake-like robot, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 627–639, Seattle, WA, USA, 2004, Springer-Verlag.
- [66] M. Maniadakis and P. Trahanias, Evolution tunes coevolution: Modelling robot cognition mechanisms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 640–641, Seattle, WA, USA, 2004, Springer-Verlag.
- [67] A. A. Albrecht, On the complexity to approach optimum solutions by inhomogeneous markov chains, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 642–653, Seattle, WA, USA, 2004, Springer-Verlag.
- [68] H.-G. Beyer, Actuator noise in recombinant evolution strategies on general quadratic fitness models, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 654–665, Seattle, WA, USA, 2004, Springer-Verlag.
- [69] L. M. Clevenger and W. E. Hart, Convergence examples of a filter-based evolutionary algorithm, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 666–677, Seattle, WA, USA, 2004, Springer-Verlag.
- [70] A. Delbem, A. de Carvalho, C. A. Policastro, A. K. Pinto, K. Honda, and A. C. Garcia, Node-depth encoding for evolutionary algorithms applied to network design, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 678–687, Seattle, WA, USA, 2004, Springer-Verlag.
- [71] Y. Jin and B. Sendhoff, Reducing fitness evaluations using clustering techniques and neural network ensembles, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 688–699, Seattle, WA, USA, 2004, Springer-Verlag.

- [72] E. Mezura-Montes and C. A. C. Coello, An improved diversity mechanism for solving constrained optimization problems using a multimembered evolution strategy, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 700–712, Seattle, WA, USA, 2004, Springer-Verlag.
- [73] F. Neumann and I. Wegener, Randomized local search, evolutionary algorithms, and the minimum spanning tree problem, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 713–724, Seattle, WA, USA, 2004, Springer-Verlag.
- [74] J. E. Rowe and D. zena Hidović, An evolution strategy using a continuous version of the gray-code neighbourhood distribution, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 725–736, Seattle, WA, USA, 2004, Springer-Verlag.
- [75] L.-S. Shu, S.-J. Ho, S.-Y. Ho, J.-H. Chen, and M.-H. Hung, A novel multi-objective orthogonal simulated annealing algorithm for solving multi-objective optimization problems with a large number of parameters, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 737–747, Seattle, WA, USA, 2004, Springer-Verlag.
- [76] T. Storch, On the choice of the population size, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 748–760, Seattle, WA, USA, 2004, Springer-Verlag.
- [77] C. Witt, An analysis of the (1+1) ea on simple pseudo-boolean functions, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 761–773, Seattle, WA, USA, 2004, Springer-Verlag.
- [78] K. Yanai and H. Iba, Program evolution by integrating edp and gp, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 774–785, Seattle, WA, USA, 2004, Springer-Verlag.
- [79] S. Berlik, A step size preserving directed mutation operator, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 786–787, Seattle, WA, USA, 2004, Springer-Verlag.
- [80] C. Grosan, A comparison of several algorithms and representations for single objective optimization, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 788–789, Seattle, WA, USA, 2004, Springer-Verlag.

- [81] W. Jakob, C. Blume, and G. Bretthauer, Towards a generally applicable self-adapting hybridization of evolutionary algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 790–791, Seattle, WA, USA, 2004, Springer-Verlag.
- [82] D. Keymeulen, R. Zebulum, V. Duong, X. Guo, I. Ferguson, and A. Stoica, High temperature experiments for circuit self-recovery, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 792–803, Seattle, WA, USA, 2004, Springer-Verlag.
- [83] J. Rieffel and J. Pollack, The emergence of ontogenic scaffolding in a stochastic development environment, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 804–815, Seattle, WA, USA, 2004, Springer-Verlag.
- [84] Y. Thoma and E. Sanchez, A reconfigurable chip for evolvable hardware, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 816–827, Seattle, WA, USA, 2004, Springer-Verlag.
- [85] J. Aguilar-Ruiz, J. Bacardit, and F. Divina, Experimental evaluation of discretization schemes for rule induction, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 828–839, Seattle, WA, USA, 2004, Springer-Verlag.
- [86] C. W. Ahn, R. Ramakrishna, and D. E. Goldberg, Real-coded bayesian optimization algorithm: Bringing the strength of boa into the continuous world, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 840–851, Seattle, WA, USA, 2004, Springer-Verlag.
- [87] E. Alba and J. F. Chicano, Training neural networks with ga hybrid algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 852–863, Seattle, WA, USA, 2004, Springer-Verlag.
- [88] E. Alba and G. Luque, Growth curves and takeover time in distributed evolutionary algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 864–876, Seattle, WA, USA, 2004, Springer-Verlag.
- [89] C. Aporntewan and P. Chongstitvatana, Simultaneity matrix for solving hierarchically decomposable functions, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 877–888, Seattle, WA, USA, 2004, Springer-Verlag.

- [90] L. Araujo, G. Luque, and E. Alba, Metaheuristics for natural language tagging, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 889–900, Seattle, WA, USA, 2004, Springer-Verlag.
- [91] P. J. Ballester and J. N. Carter, An effective real-parameter genetic algorithm with parent centric normal crossover for multimodal optimisation, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 901–913, Seattle, WA, USA, 2004, Springer-Verlag.
- [92] J. K. Bassett, M. A. Potter, and K. A. D. Jong, Looking under the ea hood with price’s equation, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 914–922, Seattle, WA, USA, 2004, Springer-Verlag.
- [93] J. Branke, A. Kamper, and H. Schneck, Distribution of evolutionary algorithms in heterogeneous networks, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 923–934, Seattle, WA, USA, 2004, Springer-Verlag.
- [94] B. Buyukbozkirli and E. D. Goodman, A statistical model of ga dynamics for the onemax problem, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 935–946, Seattle, WA, USA, 2004, Springer-Verlag.
- [95] E. Cantú-Paz, Adaptive sampling for noisy problems, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 947–958, Seattle, WA, USA, 2004, Springer-Verlag.
- [96] E. Cantú-Paz, Feature subset selection, class separability, and genetic algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 959–970, Seattle, WA, USA, 2004, Springer-Verlag.
- [97] Y. ping Chen and D. E. Goldberg, Introducing subchromosome representations to the linkage learning genetic algorithm, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 971–982, Seattle, WA, USA, 2004, Springer-Verlag.
- [98] C. D. Cheng and A. Kosorukoff, Interactive one-max problem allows to compare the performance of interactive and human-based genetic algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 983–993, Seattle, WA, USA, 2004, Springer-Verlag.

- [99] S.-S. Choi and B.-R. Moon, Polynomial approximation of survival probabilities under multi-point crossover, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 994–1005, Seattle, WA, USA, 2004, Springer-Verlag.
- [100] R. Chow, Genotype to phenotype mappings with a multiple-chromosome genetic algorithm, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1006–1017, Seattle, WA, USA, 2004, Springer-Verlag.
- [101] C. Chrysomalakos and C. R. Stephens, What basis for genetic dynamics?, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1018–1029, Seattle, WA, USA, 2004, Springer-Verlag.
- [102] E. D. de Jong and D. Thierens, Exploiting modularity, hierarchy, and repetition in variable-length problems, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1030–1041, Seattle, WA, USA, 2004, Springer-Verlag.
- [103] K. Deb and N. K. Gupta, Optimal operating conditions for overhead crane maneuvering using multi-objective evolutionary algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1042–1053, Seattle, WA, USA, 2004, Springer-Verlag.
- [104] K. Deb and K. Pal, Efficiently solving: A large-scale integer linear program using a customized genetic algorithm, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1054–1065, Seattle, WA, USA, 2004, Springer-Verlag.
- [105] E. Dicke, A. Byde, P. Layzell, and D. Cliff, Using a genetic algorithm to design and improve storage area network architectures, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1066–1077, Seattle, WA, USA, 2004, Springer-Verlag.
- [106] G. Dozier, H. Cunningham, W. Britt, and F. Zhang, Distributed constraint satisfaction, restricted recombination, and hybrid genetic search, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1078–1087, Seattle, WA, USA, 2004, Springer-Verlag.
- [107] S. Droste, Analysis of the $(1 + 1)$ ea for a noisy onemax, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1088–1099, Seattle, WA, USA, 2004, Springer-Verlag.

- [108] S. Fischer, A polynomial upper bound for a mutation-based algorithm on the two-dimensional ising model, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1100–1112, Seattle, WA, USA, 2004, Springer-Verlag.
- [109] S. Fischer and I. Wegener, The ising model on the ring: Mutation versus recombination, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1113–1124, Seattle, WA, USA, 2004, Springer-Verlag.
- [110] I. I. Garibay, O. O. Garibay, and A. S. Wu, Effects of module encapsulation in repetitively modular genotypes on the search space, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1125–1137, Seattle, WA, USA, 2004, Springer-Verlag.
- [111] M. Giacobini, E. Alba, A. Tettamanzi, and M. Tomassini, Modeling selection intensity for toroidal cellular evolutionary algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1138–1149, Seattle, WA, USA, 2004, Springer-Verlag.
- [112] J. Gomez, Evolution of fuzzy rule based classifiers, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1150–1161, Seattle, WA, USA, 2004, Springer-Verlag.
- [113] J. Gomez, Self adaptation of operator rates in evolutionary algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1162–1173, Seattle, WA, USA, 2004, Springer-Verlag.
- [114] J. Grahl and F. Rothlauf, Polyeda: Combining estimation of distribution algorithms and linear inequality constraints, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1174–1185, Seattle, WA, USA, 2004, Springer-Verlag.
- [115] A. Grajdeanu and K. D. Jong, Improving the locality properties of binary representations, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1186–1196, Seattle, WA, USA, 2004, Springer-Verlag.
- [116] W. A. Greene, Schema disruption in chromosomes that are structured as binary trees, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1197–1207, Seattle, WA, USA, 2004, Springer-Verlag.
- [117] B. Howard and J. Sheppard, The royal road not taken: A re-examination of the reasons for ga failure on r1, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by

- K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1208–1219, Seattle, WA, USA, 2004, Springer-Verlag.
- [118] J. Hu and E. Goodman, Robust and efficient genetic algorithms with hierarchical niching and a sustainable evolutionary computation model, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1220–1232, Seattle, WA, USA, 2004, Springer-Verlag.
- [119] C.-F. Huang and L. M. Rocha, A systematic study of genetic algorithms with genotype editing, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1233–1245, Seattle, WA, USA, 2004, Springer-Verlag.
- [120] H. Ishibuchi and K. Narukawa, Some issues on the implementation of local search in evolutionary multiobjective optimization, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1246–1258, Seattle, WA, USA, 2004, Springer-Verlag.
- [121] H. Ishibuchi and Y. Shibata, Mating scheme for controlling the diversity-convergence balance for multiobjective optimization, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1259–1271, Seattle, WA, USA, 2004, Springer-Verlag.
- [122] B. A. Julstrom, Encoding bounded-diameter spanning trees with permutations and with random keys, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1272–1281, Seattle, WA, USA, 2004, Springer-Verlag.
- [123] B. A. Julstrom and A. Antoniadis, Three evolutionary codings of rectilinear steiner arborescences, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1282–1291, Seattle, WA, USA, 2004, Springer-Verlag.
- [124] S. Jung and B.-R. Moon, Central point crossover for neuro-genetic hybrids, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1292–1303, Seattle, WA, USA, 2004, Springer-Verlag.
- [125] G. W. Klau, I. Ljubic, A. Moser, P. Mutzel, P. Neuner, U. Pfersch, G. Raidl, and R. Weiskircher, Combining a memetic algorithm with integer programming to solve the prize-collecting steiner tree problem, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1304–1315, Seattle, WA, USA, 2004, Springer-Verlag.

- [126] J. Langeheine, M. Trefzer, D. Brüderle, K. Meier, and J. Schemmel, On the evolution of analog electronic circuits using building blocks on a cmos fpga, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1316–1327, Seattle, WA, USA, 2004, Springer-Verlag.
- [127] C. F. Lima and F. G. Lobo, Parameter-less optimization with the extended compact genetic algorithm and iterated local search, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1328–1339, Seattle, WA, USA, 2004, Springer-Verlag.
- [128] M. Lunacek, D. Whitley, P. Gabriel, and G. Stephens, Comparing search algorithms for the temperature inversion problem, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1340–1351, Seattle, WA, USA, 2004, Springer-Verlag.
- [129] A. Menon, Inequality’s arrow: The role of greed and order in genetic algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1352–1364, Seattle, WA, USA, 2004, Springer-Verlag.
- [130] C. Miles, S. J. Louis, and R. Drewes, Trap avoidance in strategic computer game playing with case injected genetic algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1365–1376, Seattle, WA, USA, 2004, Springer-Verlag.
- [131] A. Moraglio and R. Poli, Topological interpretation of crossover, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1377–1388, Seattle, WA, USA, 2004, Springer-Verlag.
- [132] C. L. Mumford, Simple population replacement strategies for a steady-state multi-objective evolutionary algorithm, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1389–1400, Seattle, WA, USA, 2004, Springer-Verlag.
- [133] O. Nasraoui, C. Rojas, and C. Cardona, Dynamic and scalable evolutionary data mining: An approach based on a self-adaptive multiple expression mechanism, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1401–1413, Seattle, WA, USA, 2004, Springer-Verlag.
- [134] M. Nicolau and C. Ryan, Crossover, population dynamics, and convergence in the gauge system, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1414–1425, Seattle, WA, USA, 2004, Springer-Verlag.

- [135] K. Ohnishi, K. Sastry, Y.-P. Chen, and D. E. Goldberg, Inducing sequentiality using grammatical genetic codes, in *Genetic and Evolutionary Computation – GECCO-2004, Part I*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3102 of *Lecture Notes in Computer Science*, pp. 1426–1437, Seattle, WA, USA, 2004, Springer-Verlag.