## 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. KHARMA, 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 MAGALHÄES, 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. Schmeck, 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. CHRYSSOMALAKOS 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. Antoniades, 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. Pferschy, 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 FPTA, 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.