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*, pages 1–11, Seattle, WA, USA, 26-30 June 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*, pages 12–23, Seattle, WA, USA, 26-30 June 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*, pages 24–35, Seattle, WA, USA, 26-30 June 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*, pages 36–47, Seattle, WA, USA, 26-30 June 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*, pages 48–59, Seattle, WA, USA, 26-30 June 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*, pages 60–71, Seattle, WA, USA, 26-30 June 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*, pages 72–80, Seattle, WA, USA, 26-30 June 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*, pages 81–92, Seattle, WA, USA, 26-30 June 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*, pages 93–104, Seattle, WA, USA, 26-30 June 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*, pages 105–116, Seattle, WA, USA, 26-30 June 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*, pages 117–128, Seattle, WA, USA, 26-30 June 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*, pages 129–139, Seattle, WA, USA, 26-30 June 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*, pages 140–150, Seattle, WA, USA, 26-30 June 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*, pages 151–162, Seattle, WA, USA, 26-30 June 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*, pages 163–174, Seattle, WA, USA, 26-30 June 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*, pages 175–187, Seattle, WA, USA, 26-30 June 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*, pages 188–200, Seattle, WA, USA, 26-30 June 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*, pages 201–212, Seattle, WA, USA, 26-30 June 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*, pages 213–224, Seattle, WA, USA, 26-30 June 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*, pages 225–237, Seattle, WA, USA, 26-30 June 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*, pages 238–250, Seattle, WA, USA, 26-30 June 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*, pages 251–252, Seattle, WA, USA, 26-30 June 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*, pages 253–254, Seattle, WA, USA, 26-30 June 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*, pages 255–256, Seattle, WA, USA, 26-30 June 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*, pages 257–258, Seattle, WA, USA, 26-30 June 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*, pages 259–260, Seattle, WA, USA, 26-30 June 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*, pages 261–262, Seattle, WA, USA, 26-30 June 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*, pages 263–274, Seattle, WA, USA, 26-30 June 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*, pages 275–286, Seattle, WA, USA, 26-30 June 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*, pages 287–298, Seattle, WA, USA, 26-30 June 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*, pages 299–307, Seattle, WA, USA, 26-30 June 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*, pages 308–317, Seattle, WA, USA, 26-30 June 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*, pages 318–320, Seattle, WA, USA, 26-30 June 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*, pages 321–332, Seattle, WA, USA, 26-30 June 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*, pages 333–345, Seattle, WA, USA, 26-30 June 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*, pages 346–355, Seattle, WA, USA, 26-30 June 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*, pages 356–367, Seattle, WA, USA, 26-30 June 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*, pages 368–379, Seattle, WA, USA, 26-30 June 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*, pages 380–391, Seattle, WA, USA, 26-30 June 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*, pages 392–401, Seattle, WA, USA, 26-30 June 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*, pages 402–413, Seattle, WA, USA, 26-30 June 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*, pages 414–425, Seattle, WA, USA, 26-30 June 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*, pages 426–437, Seattle, WA, USA, 26-30 June 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*, pages 438–448, Seattle, WA, USA, 26-30 June 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*, pages 449–460, Seattle, WA, USA, 26-30 June 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*, pages 461–470, Seattle, WA, USA, 26-30 June 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*, pages 471–480, Seattle, WA, USA, 26-30 June 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*, pages 481–492, Seattle, WA, USA, 26-30 June 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*, pages 493–494, Seattle, WA, USA, 26-30 June 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*, pages 495–496, Seattle, WA, USA, 26-30 June 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*, pages 497–498, Seattle, WA, USA, 26-30 June 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*, pages 499–500, Seattle, WA, USA, 26-30 June 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*, pages 501–512, Seattle, WA, USA, 26-30 June 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*, pages 513–524, Seattle, WA, USA, 26-30 June 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*, pages 525–536, Seattle, WA, USA, 26-30 June 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*, pages 537–548, Seattle, WA, USA, 26-30 June 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*, pages 549–560, Seattle, WA, USA, 26-30 June 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*, pages 561–572, Seattle, WA, USA, 26-30 June 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*, pages 573–584, Seattle, WA, USA, 26-30 June 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*, pages 585–586, Seattle, WA, USA, 26-30 June 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*, pages 587–589, Seattle, WA, USA, 26-30 June 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*, pages 590–602, Seattle, WA, USA, 26-30 June 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*, pages 603–614, Seattle, WA, USA, 26-30 June 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*, pages 615–626, Seattle, WA, USA, 26-30 June 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*, pages 627–639, Seattle, WA, USA, 26-30 June 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*, pages 640–641, Seattle, WA, USA, 26-30 June 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*, pages 642–653, Seattle, WA, USA, 26-30 June 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*, pages 654–665, Seattle, WA, USA, 26-30 June 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*, pages 666–677, Seattle, WA, USA, 26-30 June 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*, pages 678–687, Seattle, WA, USA, 26-30 June 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*, pages 688–699, Seattle, WA, USA, 26-30 June 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*, pages 700–712, Seattle, WA, USA, 26-30 June 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*, pages 713–724, Seattle, WA, USA, 26-30 June 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*, pages 725–736, Seattle, WA, USA, 26-30 June 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*, pages 737–747, Seattle, WA, USA, 26-30 June 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*, pages 748–760, Seattle, WA, USA, 26-30 June 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*, pages 761–773, Seattle, WA, USA, 26-30 June 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*, pages 774–785, Seattle, WA, USA, 26-30 June 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*, pages 786–787, Seattle, WA, USA, 26-30 June 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*, pages 788–789, Seattle, WA, USA, 26-30 June 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*, pages 790–791, Seattle, WA, USA, 26-30 June 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*, pages 792–803, Seattle, WA, USA, 26-30 June 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*, pages 804–815, Seattle, WA, USA, 26-30 June 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*, pages 816–827, Seattle, WA, USA, 26-30 June 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*, pages 828–839, Seattle, WA, USA, 26-30 June 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*, pages 840–851, Seattle, WA, USA, 26-30 June 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*, pages 852–863, Seattle, WA, USA, 26-30 June 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*, pages 864–876, Seattle, WA, USA, 26-30 June 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*, pages 877–888, Seattle, WA, USA, 26-30 June 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*, pages 889–900, Seattle, WA, USA, 26-30 June 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*, pages 901–913, Seattle, WA, USA, 26-30 June 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*, pages 914–922, Seattle, WA, USA, 26-30 June 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*, pages 923–934, Seattle, WA, USA, 26-30 June 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*, pages 935–946, Seattle, WA, USA, 26-30 June 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*, pages 947–958, Seattle, WA, USA, 26-30 June 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*, pages 959–970, Seattle, WA, USA, 26-30 June 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*, pages 971–982, Seattle, WA, USA, 26-30 June 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*, pages 983–993, Seattle, WA, USA, 26-30 June 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*, pages 994–1005, Seattle, WA, USA, 26-30 June 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*, pages 1006–1017, Seattle, WA, USA, 26-30 June 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*, pages 1018–1029, Seattle, WA, USA, 26-30 June 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*, pages 1030–1041, Seattle, WA, USA, 26-30 June 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*, pages 1042–1053, Seattle, WA, USA, 26-30 June 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*, pages 1054–1065, Seattle, WA, USA, 26-30 June 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*, pages 1066–1077, Seattle, WA, USA, 26-30 June 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*, pages 1078–1087, Seattle, WA, USA, 26-30 June 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*, pages 1088–1099, Seattle, WA, USA, 26-30 June 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*, pages 1100–1112, Seattle, WA, USA, 26-30 June 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*, pages 1113–1124, Seattle, WA, USA, 26-30 June 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*, pages 1125–1137, Seattle, WA, USA, 26-30 June 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*, pages 1138–1149, Seattle, WA, USA, 26-30 June 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*, pages 1150–1161, Seattle, WA, USA, 26-30 June 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*, pages 1162–1173, Seattle, WA, USA, 26-30 June 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*, pages 1174–1185, Seattle, WA, USA, 26-30 June 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*, pages 1186–1196, Seattle, WA, USA, 26-30 June 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*, pages 1197–1207, Seattle, WA, USA, 26-30 June 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*, pages 1208–1219, Seattle, WA, USA, 26-30 June 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*, pages 1220–1232, Seattle, WA, USA, 26-30 June 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*, pages 1233–1245, Seattle, WA, USA, 26-30 June 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*, pages 1246–1258, Seattle, WA, USA, 26-30 June 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*, pages 1259–1271, Seattle, WA, USA, 26-30 June 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*, pages 1272–1281, Seattle, WA, USA, 26-30 June 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*, pages 1282–1291, Seattle, WA, USA, 26-30 June 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*, pages 1292–1303, Seattle, WA, USA, 26-30 June 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*, pages 1304–1315, Seattle, WA, USA, 26-30 June 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*, pages 1316–1327, Seattle, WA, USA, 26-30 June 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*, pages 1328–1339, Seattle, WA, USA, 26-30 June 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*, pages 1340–1351, Seattle, WA, USA, 26-30 June 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*, pages 1352–1364, Seattle, WA, USA, 26-30 June 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*, pages 1365–1376, Seattle, WA, USA, 26-30 June 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*, pages 1377–1388, Seattle, WA, USA, 26-30 June 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*, pages 1389–1400, Seattle, WA, USA, 26-30 June 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*, pages 1401–1413, Seattle, WA, USA, 26-30 June 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*, pages 1414–1425, Seattle, WA, USA, 26-30 June 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*, pages 1426–1437, Seattle, WA, USA, 26-30 June 2004, Springer-Verlag.