Список литературы

- [1] M. A. Paz-Ramos, J. Torres-Jimenez, E. Quintero-Marmol-Marquez, and H. Estrada-Esquivel, PID Controller Tuning for Stable and Unstable Processes Applying GA, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 1–10, Seattle, WA, USA, 2004, Springer-Verlag.
- [2] G. K. Pedersen and D. E. Goldberg, Dynamic Uniform Scaling for Multiobjective Genetic Algorithms, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 11–23, Seattle, WA, USA, 2004, Springer-Verlag.
- [3] M. Pelikan and T.-K. Lin, Parameter-Less Hierarchical BOA, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 24–35, Seattle, WA, USA, 2004, Springer-Verlag.
- [4] M. Pelikan, J. Ocenasek, S. Trebst, M. Troyer, and F. Alet, Computational Complexity and Simulation of Rare Events of Ising Spin Glasses, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 36–47, Seattle, WA, USA, 2004, Springer-Verlag.
- [5] M. Pelikan and K. Sastry, Fitness Inheritance in the Bayesian Optimization Algorithm, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 48–59, Seattle, WA, USA, 2004, Springer-Verlag.
- [6] F. RASHIDI and M. RASHIDI, Limit Cycle Prediction in Multivariable Nonlinear Systems Using Genetic Algorithms, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 60–68, Seattle, WA, USA, 2004, Springer-Verlag.
- [7] J. Reisinger, K. O. Stanley, and R. Miikkulainen, Evolving Reusable Neural Modules, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 69–81, Seattle, WA, USA, 2004, Springer-Verlag.
- [8] M. A. Renslow, B. Hinkemeyer, and B. A. Julstrom, How Are We Doing? Predicting Evolutionary Algorithm Performance, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 82–89, Seattle, WA, USA, 2004, Springer-Verlag.
- [9] L. RIGAL, B. CASTANIER, and P. PPE CASTAGLIOLA, Introduction of a New Selection Parameter in Genetic Algorithm for Constrained Reliability Design Problems, in *Genetic and Evolutionary*

- Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 90–101, Seattle, WA, USA, 2004, Springer-Verlag.
- [10] E. RODRIGUEZ-TELLO and J. TORRES-JIMENEZ, Improving the Performance of a Genetic Algorithm Using a Variable-Reordering Algorithm, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 102–113, Seattle, WA, USA, 2004, Springer-Verlag.
- [11] K. Sastry and D. E. Goldberg, Designing Competent Mutation Operators Via Probabilistic Model Building of Neighborhoods, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 114–125, Seattle, WA, USA, 2004, Springer-Verlag.
- [12] K. Sastry and D. E. Goldberg, Let's Get Ready to Rumble: Crossover Versus Mutation Head to Head, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 126–137, Seattle, WA, USA, 2004, Springer-Verlag.
- [13] L. M. Schmitt, Classification with Scaled Genetic Algorithms in a Coevolutionary Setting, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 138– 149, Seattle, WA, USA, 2004, Springer-Verlag.
- [14] D.-I. Seo, S.-S. Choi, and B.-R. Moon, New Epistasis Measures for Detecting Independently Optimizable Partitions of Variables, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 150–161, Seattle, WA, USA, 2004, Springer-Verlag.
- [15] W. Sheng, A. Tucker, and X. Liu, Clustering with Niching Genetic K-means Algorithm, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 162– 173, Seattle, WA, USA, 2004, Springer-Verlag.
- [16] A. Soltoggio, A Comparison of Genetic Programming and Genetic Algorithms in the Design of a Robust, Saturated Control System, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 174–185, Seattle, WA, USA, 2004, Springer-Verlag.
- [17] M. J. STREETER, Upper Bounds on the Time and Space Complexity of Optimizing Additively Separable Functions, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 186–197, Seattle, WA, USA, 2004, Springer-Verlag.

- [18] H. STRINGER and A. S. WU, Winnowing Wheat from Chaff: The Chunking GA, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 198–209, Seattle, WA, USA, 2004, Springer-Verlag.
- [19] J. C. Tay and D. Wibowo, An Effective Chromosome Representation for Evolving Flexible Job Shop Schedules, in *Genetic and Evolutionary Computation – GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 210–221, Seattle, WA, USA, 2004, Springer-Verlag.
- [20] M. Tezuka, M. Munetomo, and K. Akama, Linkage Identification by Nonlinearity Check for Real-Coded Genetic Algorithms, in *Genetic and Evolutionary Computation – GECCO-*2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 222–233, Seattle, WA, USA, 2004, Springer-Verlag.
- [21] D. Thierens, Population-Based Iterated Local Search: Restricting Neighborhood Search by Crossover, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 234– 245, Seattle, WA, USA, 2004, Springer-Verlag.
- [22] M. TSUJI, M. MUNETOMO, and K. AKAMA, Modeling Dependencies of Loci with String Classification According to Fitness Differences, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 246–257, Seattle, WA, USA, 2004, Springer-Verlag.
- [23] C. TZSCHOPPE, F. ROTHLAUF, and H.-J. PESCH, The Edge-Set Encoding Revisited: On the Bias of a Direct Representation for Trees, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 258–270, Seattle, WA, USA, 2004, Springer-Verlag.
- [24] S. Uyar, S. Sariel, and G. Eryigit, A Gene Based Adaptive Mutation Strategy for Genetic Algorithms, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 271–281, Seattle, WA, USA, 2004, Springer-Verlag.
- [25] D. WHITLEY, K. BUSH, and J. ROWE, Subthreshold-Seeking Behavior and Robust Local Search, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. DEB, R. POLI, W. BANZHAF, H.-G. BEYER, E. BURKE, P. DARWEN, D. DASGUPTA, D. FLOREANO, J. FOSTER, M. HARMAN, O. HOLLAND, P. L. LANZI, L. SPECTOR, A. TETTAMANZI, D. THIERENS, and A. TYRRELL, volume 3103 of Lecture Notes in Computer Science, pp. 282–293, Seattle, WA, USA, 2004, Springer-Verlag.
- [26] D. WHITLEY, M. LUNACEK, and J. KNIGHT, Ruffled by Ridges: How Evolutionary Algorithms Can Fail, in *Genetic and Evolutionary Computation – GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano,

- J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 294–306, Seattle, WA, USA, 2004, Springer-Verlag.
- [27] C. Willis-Ford and T. Soule, Non-stationary Subtasks Can Improve Diversity in Stationary Tasks, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 307– 317, Seattle, WA, USA, 2004, Springer-Verlag.
- [28] M. Wineberg and J. Chen, The Shifting Balance Genetic Algorithm as More than Just Another Island Model GA, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 318–329, Seattle, WA, USA, 2004, Springer-Verlag.
- [29] A. WRIGHT and G. CRIPE, Bistability of the Needle Function in the Presence of Truncation Selection, in *Genetic and Evolutionary Computation – GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 330– 342, Seattle, WA, USA, 2004, Springer-Verlag.
- [30] A. WRIGHT, R. POLI, C. R. STEPHENS, W. LANGDON, and S. PULAVARTY, An Estimation of Distribution Algorithm Based on Maximum Entropy, in *Genetic and Evolutionary Computation* – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 343–354, Seattle, WA, USA, 2004, Springer-Verlag.
- [31] T.-L. Yu and D. E. Goldberg, Dependency Structure Matrix Analysis: Offline Utility of the Dependency Structure Matrix Genetic Algorithm, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 355–366, Seattle, WA, USA, 2004, Springer-Verlag.
- [32] T.-L. Yu and D. E. Goldberg, Toward an Understanding of the Quality and Efficiency of Model Building for Genetic Algorithms, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 367–378, Seattle, WA, USA, 2004, Springer-Verlag.
- [33] M. W. Andrews and C. Salzberg, Sexual and Asexual Paradigms in Evolution: The Implications for Genetic Algorithms, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 379–380, Seattle, WA, USA, 2004, Springer-Verlag.
- [34] S.-H. BAE and B.-R. MOON, Mutation Rates in the Context of Hybrid Genetic Algorithms, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. DEB, R. POLI, W. BANZHAF, H.-G. BEYER, E. BURKE, P. DARWEN, D. DASGUPTA, D. FLOREANO, J. FOSTER, M. HARMAN, O. HOLLAND, P. L. LANZI, L. SPECTOR, A. TETTAMANZI, D. THIERENS, and A. TYRRELL, volume 3103 of Lecture Notes in Computer Science, pp. 381– 382, Seattle, WA, USA, 2004, Springer-Verlag.

- [35] N. K. Bambha, S. S. Bhattacharyya, J. Teich, and E. Zitzler, Systematic Integration of Parameterized Local Search Techniques in Evolutionary Algorithms, in *Genetic and Evolutionary Computation – GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 383–384, Seattle, WA, USA, 2004, Springer-Verlag.
- [36] Y.-C. Chen, J.-M. Yang, C.-H. Tsai, and C.-Y. Kao, Comparative Molecular Binding Energy Analysis of HIV-1 Protease Inhibitors Using Genetic Algorithm-Based Partial Least Squares Method, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 385–386, Seattle, WA, USA, 2004, Springer-Verlag.
- [37] M. A. Dallaali and M. Premaratne, Controlled Content Crossover: A New Crossover Scheme and Its Application to Optical Network Component Allocation Problem, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 387–389, Seattle, WA, USA, 2004, Springer-Verlag.
- [38] V. Devireddy and P. Reed, Efficient and Reliable Evolutionary Multiobjective Optimization Using e-Dominance Archiving and Adaptive Population Sizing, in *Genetic and Evolutionary Computation - GECCO-2004*, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 390–391, Seattle, WA, USA, 2004, Springer-Verlag.
- [39] I. FROMMER, B. GOLDEN, and G. PUNDOOR, Heuristic Methods for Solving Euclidean Non-uniform Steiner Tree Problems, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 392–393, Seattle, WA, USA, 2004, Springer-Verlag.
- [40] A. G. DE SILVA GARZA and A. Z. LORES, Automating Evolutionary Art in the Style of Mondrian, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 394– 395, Seattle, WA, USA, 2004, Springer-Verlag.
- [41] H. Handa, Mutation Can Improve the Search Capability of Estimation of Distribution Algorithms, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 396–397, Seattle, WA, USA, 2004, Springer-Verlag.
- [42] J.-H. Kim, S.-S. Choi, and B.-R. Moon, Neural Network Normalization for Genetic Search, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 398–399, Seattle, WA, USA, 2004, Springer-Verlag.
- [43] Y.-H. Kim and B.-R. Moon, Distance Measures in Genetic Algorithms, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf,

- H.-G. BEYER, E. BURKE, P. DARWEN, D. DASGUPTA, D. FLOREANO, J. FOSTER, M. HARMAN, O. HOLLAND, P. L. LANZI, L. SPECTOR, A. TETTAMANZI, D. THIERENS, and A. TYRRELL, volume 3103 of *Lecture Notes in Computer Science*, pp. 400–401, Seattle, WA, USA, 2004, Springer-Verlag.
- [44] M. P. KLEEMAN, R. O. DAY, and G. B. LAMONT, Analysis of a Parallel MOEA Solving the Multi-objective Quadratic Assignment Problem, in *Genetic and Evolutionary Computation –* GECCO-2004, Part II, edited by K. DEB, R. POLI, W. BANZHAF, H.-G. BEYER, E. BURKE, P. DARWEN, D. DASGUPTA, D. FLOREANO, J. FOSTER, M. HARMAN, O. HOLLAND, P. L. LANZI, L. SPECTOR, A. TETTAMANZI, D. THIERENS, and A. TYRRELL, volume 3103 of Lecture Notes in Computer Science, pp. 402–403, Seattle, WA, USA, 2004, Springer-Verlag.
- [45] Y.-K. KWON and B.-R. MOON, Evolving Features in Neural Networks for System Identification, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 404–405, Seattle, WA, USA, 2004, Springer-Verlag.
- [46] V. Lefort, C. Knibbe, G. Beslon, and J. Favrel, A Bio-inspired Genetic Algorithm with a Self-Organizing Genome: The RBF-Gene Model, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 406–407, Seattle, WA, USA, 2004, Springer-Verlag.
- [47] J. Liu and A. Buller, Evolving Spike-Train Processors, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 408–409, Seattle, WA, USA, 2004, Springer-Verlag.
- [48] F. G. Lobo, A Philosophical Essay on Life and Its Connections with Genetic Algorithms, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 410– 411, Seattle, WA, USA, 2004, Springer-Verlag.
- [49] F. G. Lobo, C. F. Lima, and H. Mártires, An Architecture for Massive Parallelization of the Compact Genetic Algorithm, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 412–413, Seattle, WA, USA, 2004, Springer-Verlag.
- [50] C. Rotar, An Evolutionary Technique for Multicriterial Optimization Based on Endocrine Paradigm, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 414– 415, Seattle, WA, USA, 2004, Springer-Verlag.
- [51] J. TAVARES, F. B. PEREIRA, and E. COSTA, Evolving Golomb Rulers, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 416–417, Seattle, WA, USA, 2004, Springer-Verlag.

- [52] H. Yu, N. Jiang, and A. S. Wu, Populating Genomes in a Dynamic Grid, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 418–419, Seattle, WA, USA, 2004, Springer-Verlag.
- [53] K. Q. Zhu and Z. Liu, Empirical Study of Population Diversity in Permutation-Based Genetic Algorithm, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 420–421, Seattle, WA, USA, 2004, Springer-Verlag.
- [54] G. C. Balan and S. Luke, A Demonstration of Neural Programming Applied to Non-Markovian Problems, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 422– 433, Seattle, WA, USA, 2004, Springer-Verlag.
- [55] J. Branke, P. Funes, and F. Thiele, Evolving En-Route Caching Strategies for the Internet, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 434–446, Seattle, WA, USA, 2004, Springer-Verlag.
- [56] I. Dempsey, M. O'Neill, and A. Brabazon, Grammatical Constant Creation, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 447–458, Seattle, WA, USA, 2004, Springer-Verlag.
- [57] B. E. ESKRIDGE and D. F. HOUGEN, Memetic Crossover for Genetic Programming: Evolution Through Imitation, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 459–470, Seattle, WA, USA, 2004, Springer-Verlag.
- [58] T. Fernandez, Virtual Ramping of Genetic Programming Populations, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 471–482, Seattle, WA, USA, 2004, Springer-Verlag.
- [59] A. S. Fukunaga, Evolving Local Search Heuristics for SAT Using Genetic Programming, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 483– 494, Seattle, WA, USA, 2004, Springer-Verlag.
- [60] G. S. Hornby, Shortcomings with Tree-Structured Edge Encodings for Neural Networks, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano,

- J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 495–506, Seattle, WA, USA, 2004, Springer-Verlag.
- [61] C. Z. Janikow, Adapting Representation in Genetic Programming, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 507–518, Seattle, WA, USA, 2004, Springer-Verlag.
- [62] J.-Y. Jung and J. A. Reggia, A Descriptive Encoding Language for Evolving Modular Neural Networks, in *Genetic and Evolutionary Computation – GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 519– 530, Seattle, WA, USA, 2004, Springer-Verlag.
- [63] M. Keijzer, C. Ryan, and M. Cattolico, Run Transferable Libraries Learning Functional Bias in Problem Domains, in *Genetic and Evolutionary Computation – GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 531–542, Seattle, WA, USA, 2004, Springer-Verlag.
- [64] E. Kirshenbaum and H. J. Suermondt, Using Genetic Programming to Obtain a Closed-Form Approximation to a Recursive Function, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 543–556, Seattle, WA, USA, 2004, Springer-Verlag.
- [65] A. Leier and W. Banzhaf, Comparison of Selection Strategies for Evolutionary Quantum Circuit Design, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 557–568, Seattle, WA, USA, 2004, Springer-Verlag.
- [66] P. Massey, J. A. Clark, and S. Stepney, Evolving Quantum Circuits and Programs Through Genetic Programming, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 569–580, Seattle, WA, USA, 2004, Springer-Verlag.
- [67] A. McIntyre and M. Heywood, On Multi-class Classification by Way of Niching, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 581– 592, Seattle, WA, USA, 2004, Springer-Verlag.
- [68] N. F. MCPHEE, A. JARVIS, and E. F. CRANE, On the Strength of Size Limits in Linear Genetic Programming, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 593–604, Seattle, WA, USA, 2004, Springer-Verlag.

- [69] N. X. Hoai and R. McKay, Softening the Structural Difficulty in Genetic Programming with TAG-Based Representation and Insertion/Deletion Operators, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 605–616, Seattle, WA, USA, 2004, Springer-Verlag.
- [70] M. O'NEILL, A. BRABAZON, M. NICOLAU, S. M. GARRAGHY, and P. KEENAN, πGrammatical Evolution, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. DEB, R. POLI, W. BANZHAF, H.-G. BEYER, E. BURKE, P. DARWEN, D. DASGUPTA, D. FLOREANO, J. FOSTER, M. HARMAN, O. HOLLAND, P. L. LANZI, L. SPECTOR, A. TETTAMANZI, D. THIERENS, and A. TYRRELL, volume 3103 of Lecture Notes in Computer Science, pp. 617–629, Seattle, WA, USA, 2004, Springer-Verlag.
- [71] L. Panait and S. Luke, Alternative Bloat Control Methods, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 630–641, Seattle, WA, USA, 2004, Springer-Verlag.
- [72] M. L. PILAT and F. OPPACHER, Robotic Control Using Hierarchical Genetic Programming, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 642– 653, Seattle, WA, USA, 2004, Springer-Verlag.
- [73] C. Ryan, H. Majeed, and A. Azad, A Competitive Building Block Hypothesis, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 654–665, Seattle, WA, USA, 2004, Springer-Verlag.
- [74] S. SILVA and E. COSTA, Dynamic Limits for Bloat Control: Variations on Size and Depth, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 666– 677, Seattle, WA, USA, 2004, Springer-Verlag.
- [75] M. D. Terrio and M. I. Heywood, On Naive Crossover Biases with Reproduction for Simple Solutions to Classification Problems, in *Genetic and Evolutionary Computation – GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 678–689, Seattle, WA, USA, 2004, Springer-Verlag.
- [76] L. Vanneschi, M. Clergue, P. Collard, M. Tomassini, and S. Vérel, Fitness Clouds and Problem Hardness in Genetic Programming, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 690–701, Seattle, WA, USA, 2004, Springer-Verlag.
- [77] Y. Bernstein, X. Li, V. Ciesielski, and A. Song, Improving Generalisation Performance Through Multiobjective Parsimony Enforcement, in *Genetic and Evolutionary Computation – GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L.

- LANZI, L. SPECTOR, A. TETTAMANZI, D. THIERENS, and A. TYRRELL, volume 3103 of *Lecture Notes in Computer Science*, pp. 702–703, Seattle, WA, USA, 2004, Springer-Verlag.
- [78] H. FERNLUND and A. J. GONZALEZ, Using GP to Model Contextual Human Behavior, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 704– 705, Seattle, WA, USA, 2004, Springer-Verlag.
- [79] S. Harmon, E. Rodríguez, C. Zhong, and W. Hsu, A Comparison of Hybrid Incremental Reuse Strategies for Reinforcement Learning in Genetic Programming, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 706–707, Seattle, WA, USA, 2004, Springer-Verlag.
- [80] H. Liu and H. Iba, Humanoid Robot Programming Based on CBR Augmented GP, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 708– 709, Seattle, WA, USA, 2004, Springer-Verlag.
- [81] S. Mabu, K. Hirasawa, and J. Hu, Genetic Network Programming with Reinforcement Learning and Its Performance Evaluation, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 710–711, Seattle, WA, USA, 2004, Springer-Verlag.
- [82] T. Murata and T. Nakamura, Multi-agent Cooperation Using Genetic Network Programming with Automatically Defined Groups, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 712–714, Seattle, WA, USA, 2004, Springer-Verlag.
- [83] W. Piaseczny, H. Suzuki, and H. Sawai, Chemical Genetic Programming Coevolution Between Genotypic Strings and Phenotypic Trees, in *Genetic and Evolutionary Computation – GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 715–716, Seattle, WA, USA, 2004, Springer-Verlag.
- [84] W. Quan and T. Soule, A Study of the Role of Single Node Mutation in Genetic Programming, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 717–718, Seattle, WA, USA, 2004, Springer-Verlag.
- [85] K. Rodríguez-Vázquez and C. Oliver-Morales, Multi-branches Genetic Programming as a Tool for Function Approximation, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 719–721, Seattle, WA, USA, 2004, Springer-Verlag.

- [86] K. Seo, J. Hu, Z. Fan, E. D. Goodman, and R. C. Rosenberg, Hierarchical Breeding Control for Efficient Topology/Parameter Evolution, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 722–723, Seattle, WA, USA, 2004, Springer-Verlag.
- [87] K. Taniguchi and T. Terano, Keeping the Diversity with Small Populations Using Logic-Based Genetic Programming, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 724–725, Seattle, WA, USA, 2004, Springer-Verlag.
- [88] J. Bacardit and J. M. Garrell, Analysis and Improvements of the Adaptive Discretization Intervals Knowledge Representation, in *Genetic and Evolutionary Computation - GECCO-*2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 726–738, Seattle, WA, USA, 2004, Springer-Verlag.
- [89] M. V. Butz, D. E. Goldberg, and P. L. Lanzi, Bounding Learning Time in XCS, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 739–750, Seattle, WA, USA, 2004, Springer-Verlag.
- [90] M. V. Butz, D. E. Goldberg, and P. L. Lanzi, Gradient-Based Learning Updates Improve XCS Performance in Multistep Problems, in *Genetic and Evolutionary Computation – GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 751–762, Seattle, WA, USA, 2004, Springer-Verlag.
- [91] F. Ferrandi, P. L. Lanzi, and D. Sciuto, System Level Hardware-Software Design Exploration with XCS, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 763–773, Seattle, WA, USA, 2004, Springer-Verlag.
- [92] C.-Y. Huang and C.-T. Sun, Parameter Adaptation within Co-adaptive Learning Classifier Systems, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 774– 784, Seattle, WA, USA, 2004, Springer-Verlag.
- [93] T. KOVACS and M. KERBER, High Classification Accuracy Does Not Imply Effective Genetic Search, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. DEB, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 785– 796, Seattle, WA, USA, 2004, Springer-Verlag.
- [94] X. Llorà and S. W. Wilson, Mixed Decision Trees: Minimizing Knowledge Representation Bias in LCS, in *Genetic and Evolutionary Computation – GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta,

- D. FLOREANO, J. FOSTER, M. HARMAN, O. HOLLAND, P. L. LANZI, L. SPECTOR, A. TETTAMANZI, D. THIERENS, and A. TYRRELL, volume 3103 of *Lecture Notes in Computer Science*, pp. 797–809, Seattle, WA, USA, 2004, Springer-Verlag.
- [95] O. SIGAUD, T. GOURDIN, and P.-H. WUILLEMIN, Improving MACS Thanks to a Comparison with 2TBNs, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 810–823, Seattle, WA, USA, 2004, Springer-Verlag.
- [96] S. W. Wilson, Classifier Systems for Continuous Payoff Environments, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 824–835, Seattle, WA, USA, 2004, Springer-Verlag.
- [97] H. W.-K. Chia and C.-L. Tan, Confidence and Support Classification Using Genetically Programmed Neural Logic Networks, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 836–837, Seattle, WA, USA, 2004, Springer-Verlag.
- [98] A. Acan and A. Unveren, An Evolutionary Constraint Satisfaction Solution for Over the Cell Channel Routing, in *Genetic and Evolutionary Computation - GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 838–849, Seattle, WA, USA, 2004, Springer-Verlag.
- [99] A. AGARWAL, M.-H. LIM, C. Y. CHEW, T. K. POO, M. J. ER, and Y. K. LEONG, Solution to the Fixed Airbase Problem for Autonomous URAV Site Visitation Sequencing, in *Genetic and Evolutionary Computation – GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 850–858, Seattle, WA, USA, 2004, Springer-Verlag.
- [100] A. AGARWAL, M.-H. LIM, M. Y. W. KYAW, and M. J. ER, Inflight Rerouting for an Unmanned Aerial Vehicle, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 859–868, Seattle, WA, USA, 2004, Springer-Verlag.
- [101] W. Ali and A. Topchy, Memetic Optimization of Video Chain Designs, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 869–882, Seattle, WA, USA, 2004, Springer-Verlag.
- [102] O. BANDTE and S. MALINCHIK, A Broad and Narrow Approach to Interactive Evolutionary Design An Aircraft Design Example, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 883–895, Seattle, WA, USA, 2004, Springer-Verlag.

- [103] B. Bhanu, J. Yu, X. Tan, and Y. Lin, Feature Synthesis Using Genetic Programming for Face Expression Recognition, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 896–907, Seattle, WA, USA, 2004, Springer-Verlag.
- [104] T. N. Bui and W. A. Youssef, An Enhanced Genetic Algorithm for DNA Sequencing by Hybridization with Positive and Negative Errors, in *Genetic and Evolutionary Computation – GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 908–919, Seattle, WA, USA, 2004, Springer-Verlag.
- [105] K. Deb, K. Mitra, R. Dewri, and S. Majumdar, Unveiling Optimal Operating Conditions for an Epoxy Polymerization Process Using Multi-objective Evolutionary Computation, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 920–931, Seattle, WA, USA, 2004, Springer-Verlag.
- [106] L. ELLIOTT, D. B. INGHAM, A. G. KYNE, N. S. MERA, M. POURKASHANIAN, and S. WHITTAKER, Efficient Clustering-Based Genetic Algorithms in Chemical Kinetic Modelling, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 932–944, Seattle, WA, USA, 2004, Springer-Verlag.
- [107] L. ELLIOTT, D. B. INGHAM, A. G. KYNE, N. S. MERA, M. POURKASHANIAN, and C. W. WILSON, An Informed Operator Based Genetic Algorithm for Tuning the Reaction Rate Parameters of Chemical Kinetics Mechanisms, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 945–956, Seattle, WA, USA, 2004, Springer-Verlag.
- [108] F. J. Gomez and R. Miikkulainen, Transfer of Neuroevolved Controllers in Unstable Domains, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 957–968, Seattle, WA, USA, 2004, Springer-Verlag.
- [109] U. GRASEMANN and R. MIIKKULAINEN, Evolving Wavelets Using a Coevolutionary Genetic Algorithm and Lifting, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 969–980, Seattle, WA, USA, 2004, Springer-Verlag.
- [110] K. Hamza and K. Saitou, Optimization of Constructive Solid Geometry Via a Tree-Based Multi-objective Genetic Algorithm, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 981–992, Seattle, WA, USA, 2004, Springer-Verlag.

- [111] L. M. Hercog, Co-evolutionary Agent Self-Organization for City Traffic Congestion Modeling, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 993–1004, Seattle, WA, USA, 2004, Springer-Verlag.
- [112] D. ZENA HIDOVIC and J. E. ROWE, Validating a Model of Colon Colouration Using an Evolution Strategy with Adaptive Approximations, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1005–1016, Seattle, WA, USA, 2004, Springer-Verlag.
- [113] T. Hussain, D. Montana, and G. Vidaver, Evolution-Based Deliberative Planning for Cooperating Unmanned Ground Vehicles in a Dynamic Environment, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1017–1029, Seattle, WA, USA, 2004, Springer-Verlag.
- [114] R. KAMALIAN, H. TAKAGI, and A. M. AGOGINO, Optimized Design of MEMS by Evolutionary Multi-objective Optimization with Interactive Evolutionary Computation, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1030–1041, Seattle, WA, USA, 2004, Springer-Verlag.
- [115] E. KEEDWELL and S.-T. KHU, Hybrid Genetic Algorithms for Multi-Objective Optimisation of Water Distribution Networks, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 1042–1053, Seattle, WA, USA, 2004, Springer-Verlag.
- [116] J.-P. Kim, Y.-H. Kim, and B.-R. Moon, A Hybrid Genetic Approach for Circuit Bipartitioning, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1054–1064, Seattle, WA, USA, 2004, Springer-Verlag.
- [117] Y.-H. Kim and B.-R. Moon, Lagrange Multiplier Method for Multi-campaign Assignment Problem, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1065– 1077, Seattle, WA, USA, 2004, Springer-Verlag.
- [118] A. KORDON, E. JORDAAN, L. CHEW, G. SMITS, T. BRUCK, K. HANEY, and A. JENINGS, Biomass Inferential Sensor Based on Ensemble of Models Generated by Genetic Programming, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. DEB, R. POLI, W. BANZHAF, H.-G. BEYER, E. BURKE, P. DARWEN, D. DASGUPTA, D. FLOREANO, J. FOSTER, M. HARMAN, O. HOLLAND, P. L. LANZI, L. SPECTOR, A. TETTAMANZI, D. THIERENS, and A. TYRRELL, volume 3103 of Lecture Notes in Computer Science, pp. 1078–1089, Seattle, WA, USA, 2004, Springer-Verlag.

- [119] T. KOWALIW, N. KHARMA, C. JENSEN, H. MOGHNIEH, and J. YAO, CellNet Co-Ev: Evolving Better Pattern Recognizers Using Competitive Co-evolution, in *Genetic and Evolutionary Computation - GECCO-2004*, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1090–1101, Seattle, WA, USA, 2004, Springer-Verlag.
- [120] Y.-K. KWON and B.-R. MOON, Evolutionary Ensemble for Stock Prediction, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1102–1113, Seattle, WA, USA, 2004, Springer-Verlag.
- [121] B. Lam and V. Ciesielski, Discovery of Human-Competitive Image Texture Feature Extraction Programs Using Genetic Programming, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 1114–1125, Seattle, WA, USA, 2004, Springer-Verlag.
- [122] Y. Liang, K.-S. Leung, and T. S. K. Mok, Evolutionary Drug Scheduling Model for Cancer Chemotherapy, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1126–1137, Seattle, WA, USA, 2004, Springer-Verlag.
- [123] G. Lu and S. Areibi, An Island-Based GA Implementation for VLSI Standard-Cell Placement, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1138–1150, Seattle, WA, USA, 2004, Springer-Verlag.
- [124] S. Malinchik and E. Bonabeau, Exploratory Data Analysis with Interactive Evolution, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1151– 1161, Seattle, WA, USA, 2004, Springer-Verlag.
- [125] J. Martikainen and S. J. Ovaska, Designing Multiplicative General Parameter Filters Using Adaptive Genetic Algorithms, in *Genetic and Evolutionary Computation – GECCO-*2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1162–1176, Seattle, WA, USA, 2004, Springer-Verlag.
- [126] I. V. Maslov, Reducing the Cost of the Hybrid Evolutionary Algorithm with Image Local Response in Electronic Imaging, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1177–1188, Seattle, WA, USA, 2004, Springer-Verlag.
- [127] Y. NAGATA, The Lens Design Using the CMA-ES Algorithm, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland,

- P. L. LANZI, L. SPECTOR, A. TETTAMANZI, D. THIERENS, and A. TYRRELL, volume 3103 of *Lecture Notes in Computer Science*, pp. 1189–1200, Seattle, WA, USA, 2004, Springer-Verlag.
- [128] R. Sanderson, Automatic Synthesis of an 802.11a Wireless LAN Antenna Using Genetic Programming A Real World Application, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 1201–1213, Seattle, WA, USA, 2004, Springer-Verlag.
- [129] E. Sim, S. Jung, H. Kim, and J. Park, A Generic Network Design for a Closed-Loop Supply Chain Using Genetic Algorithm, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1214–1225, Seattle, WA, USA, 2004, Springer-Verlag.
- [130] K. O. STANLEY and R. MIIKKULAINEN, Evolving a Roving Eye for Go, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1226–1238, Seattle, WA, USA, 2004, Springer-Verlag.
- [131] F. STREICHERT, H. ULMER, and A. ZELL, Comparing Discrete and Continuous Genotypes on the Constrained Portfolio Selection Problem, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1239–1250, Seattle, WA, USA, 2004, Springer-Verlag.
- [132] A. Tettamanzi, L. Sammartino, M. Simonov, M. Soroldoni, and M. Beretta, Learning Environment for Life Time Value Calculation of Customers in Insurance Domain, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 1251–1262, Seattle, WA, USA, 2004, Springer-Verlag.
- [133] A. F. Tulai and F. Oppacher, Multiple Species Weighted Voting A Genetics-Based Machine Learning System, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1263–1274, Seattle, WA, USA, 2004, Springer-Verlag.
- [134] R. Ványi, Object Oriented Design and Implementation of a General Evolutionary Algorithm, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1275–1286, Seattle, WA, USA, 2004, Springer-Verlag.
- [135] K. Weinert and M. Stautner, Generating Multiaxis Tool Paths for Die and Mold Making with Evolutionary Algorithms, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1287–1298, Seattle, WA, USA, 2004, Springer-Verlag.

- [136] P. J. Ballester and J. N. Carter, Tackling an Inverse Problem from the Petroleum Industry with a Genetic Algorithm for Sampling, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 1299–1300, Seattle, WA, USA, 2004, Springer-Verlag.
- [137] A. BARBIERI, S. CAGNONI, and G. COLAVOLPE, A Genetic Approach for Generating Good Linear Block Error-Correcting Codes, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1301–1302, Seattle, WA, USA, 2004, Springer-Verlag.
- [138] Y.-S. Choi and B.-R. Moon, Genetic Fuzzy Discretization for Classification Problems, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1303– 1304, Seattle, WA, USA, 2004, Springer-Verlag.
- [139] L. C. González, H. J. Romero, and C. A. Brizuela, A Genetic Algorithm for the Shortest Common Superstring Problem, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 1305–1306, Seattle, WA, USA, 2004, Springer-Verlag.
- [140] B. Hodjat, J. Ito, and M. Amamiya, A Genetic Algorithm to Improve Agent-Oriented Natural Language Interpreters, in *Genetic and Evolutionary Computation – GECCO-2004*, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1307–1309, Seattle, WA, USA, 2004, Springer-Verlag.
- [141] Q. Hong, S. Kwong, and H. Wang, Optimization of Gaussian Mixture Model Parameters for Speaker Identification, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1310–1311, Seattle, WA, USA, 2004, Springer-Verlag.
- [142] E. LEON, O. NASRAOUI, and J. GOMEZ, Network Intrusion Detection Using Genetic Clustering, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1312–1313, Seattle, WA, USA, 2004, Springer-Verlag.
- [143] X. Llorá, K. Ohnishi, Y. Ping Chen, D. E. Goldberg, and M. E. Welge, Enhanced Innovation: A Fusion of Chance Discovery and Evolutionary Computation to Foster Creative Processes and Decision Making, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 1314–1315, Seattle, WA, USA, 2004, Springer-Verlag.
- [144] L. D. LLOYD, R. L. JOHNSTON, and S. SALHI, Development of a Genetic Algorithm for Optimization of Nanoalloys, in *Genetic and Evolutionary Computation GECCO-2004, Part*

- II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1316–1317, Seattle, WA, USA, 2004, Springer-Verlag.
- [145] S. Matsui, I. Watanabe, and K. Ichi Tokoro, Empirical Performance Evaluation of a Parameter-Free GA for JSSP, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 1318–1319, Seattle, WA, USA, 2004, Springer-Verlag.
- [146] J. Mohr and X. Li, A Caching Genetic Algorithm for Spectral Breakpoint Matching, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1320– 1321, Seattle, WA, USA, 2004, Springer-Verlag.
- [147] R. L. MOORE, A. WILLIAMS, and J. SHEPPARD, Multi-agent Simulation of Airline Travel Markets, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1322–1323, Seattle, WA, USA, 2004, Springer-Verlag.
- [148] O. Nasraoui and E. Leon, Improved Niching and Encoding Strategies for Clustering Noisy Data Sets, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 1324–1325, Seattle, WA, USA, 2004, Springer-Verlag.
- [149] J. Northern and M. Shanblatt, A Multi-objective Approach to Configuring Embedded System Architectures, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 1326–1327, Seattle, WA, USA, 2004, Springer-Verlag.
- [150] Y. Sato, Achieving Shorter Search Times in Voice Conversion Using Interactive Evolution, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1328– 1329, Seattle, WA, USA, 2004, Springer-Verlag.
- [151] C. Stephens, H. Waelbroeck, S. Talley, R. Cruz, and A. Ash, Predicting Healthcare Costs Using Classifiers, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 1330–1331, Seattle, WA, USA, 2004, Springer-Verlag.
- [152] K. Vogts and N. Pope, Generating Compact Rough Cluster Descriptions Using an Evolutionary Algorithm, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1332–1333, Seattle, WA, USA, 2004, Springer-Verlag.

- [153] H. F. Wedde, M. Farooq, and M. Lischka, An Evolutionary Meta Hierarchical Scheduler for the Linux Operating System, in *Genetic and Evolutionary Computation GECCO-2004*, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1334–1335, Seattle, WA, USA, 2004, Springer-Verlag.
- [154] Z. Wu, Z. Tang, J. Zou, L. Kang, and M. Li, An Evolutionary Algorithm for Parameters Identification in Parabolic Systems, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 1336–1337, Seattle, WA, USA, 2004, Springer-Verlag.
- [155] K. Adamopoulos, M. Harman, and R. M. Hierons, How to Overcome the Equivalent Mutant Problem and Achieve Tailored Selective Mutation Using Co-evolution, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1338–1349, Seattle, WA, USA, 2004, Springer-Verlag.
- [156] F. Lammermann, A. Baresel, and J. Wegener, Evaluating Evolutionary Testability with Software-Measurements, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1350–1362, Seattle, WA, USA, 2004, Springer-Verlag.
- [157] P. McMinn and M. Holcombe, Hybridizing Evolutionary Testing with the Chaining Approach, in Genetic and Evolutionary Computation GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1363–1374, Seattle, WA, USA, 2004, Springer-Verlag.
- [158] B. S. MITCHELL, S. MANCORIDIS, and M. TRAVERSO, Using Interconnection Style Rules to Infer Software Architecture Relations, in Genetic and Evolutionary Computation – GECCO-2004, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1375–1387, Seattle, WA, USA, 2004, Springer-Verlag.
- [159] R. VIVANCO and N. PIZZI, Finding Effective Software Metrics to Classify Maintainability Using a Parallel Genetic Algorithm, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 1388–1399, Seattle, WA, USA, 2004, Springer-Verlag.
- [160] J. Wegener and O. Bühler, Evaluation of Different Fitness Functions for the Evolutionary Testing of an Autonomous Parking System, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 1400–1412, Seattle, WA, USA, 2004, Springer-Verlag.
- [161] Y. Zhan and J. Clark, Search Based Automatic Test-Data Generation at an Architectural Level, in *Genetic and Evolutionary Computation GECCO-2004*, Part II, edited by K. Deb,

- R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 1413–1424, Seattle, WA, USA, 2004, Springer-Verlag.
- [162] G. Antoniol, M. D. Penta, and M. Harman, Search-Based Techniques for Optimizing Software Project Resource Allocation, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 1425–1426, Seattle, WA, USA, 2004, Springer-Verlag.
- [163] A. BARESEL, H. STHAMER, and J. WEGENER, Applying Evolutionary Testing to Search for Critical Defects, in *Genetic and Evolutionary Computation – GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 1427–1428, Seattle, WA, USA, 2004, Springer-Verlag.
- [164] K. DERDERIAN, R. M. HIERONS, M. HARMAN, and Q. GUO, Input Sequence Generation for Testing of Communicating Finite State Machines (CFSMs), in *Genetic and Evolutionary Computation GECCO-2004*, Part II, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of Lecture Notes in Computer Science, pp. 1429–1430, Seattle, WA, USA, 2004, Springer-Verlag.
- [165] L. P. Ferreira and S. R. Vergilio, TDSGen: An Environment Based on Hybrid Genetic Algorithms for Generation of Test Data, in *Genetic and Evolutionary Computation GECCO-2004, Part II*, edited by K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens, and A. Tyrrell, volume 3103 of *Lecture Notes in Computer Science*, pp. 1431–1432, Seattle, WA, USA, 2004, Springer-Verlag.