

Список литературы

- [1] Zhou, Y. and Tan, Y.: Particle swarm optimization with triggered mutation and its implementation based on GPU. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1–8. ACM, Portland, Oregon, USA (2010)
- [2] Chen, Z., He, Z., and Zhang, C.: Particle swarm optimizer with self-adjusting neighborhoods. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 9–14. ACM, Portland, Oregon, USA (2010)
- [3] Vanneschi, L., Codecasa, D., and Mauri, G.: An empirical comparison of parallel and distributed particle swarm optimization methods. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 15–22. ACM, Portland, Oregon, USA (2010)
- [4] Lin, Y., min Hu, X., and Zhang, J.: An ant-colony-system-based activity scheduling method for the lifetime maximization of heterogeneous wireless sensor networks. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 23–30. ACM, Portland, Oregon, USA (2010)
- [5] jie Yu, W. and Zhang, J.: Pheromone-distribution-based adaptive ant colony system. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 31–38. ACM, Portland, Oregon, USA (2010)
- [6] Zhan, Z.-H. and Zhang, J.: Self-adaptive differential evolution based on PSO learning strategy. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 39–46. ACM, Portland, Oregon, USA (2010)
- [7] Lemmens, N. and Tuyls, K.: Stigmergic landmark routing: a routing algorithm for wireless mobile ad-hoc networks. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 47–54. ACM, Portland, Oregon, USA (2010)
- [8] Deb, K. and Padhye, N.: Development of efficient particle swarm optimizers by using concepts from evolutionary algorithms. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 55–62. ACM, Portland, Oregon, USA (2010)

- [9] Neumann, F., Sudholt, D., and Witt, C.: A few ants are enough: ACO with iteration-best update. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 63–70. ACM, Portland, Oregon, USA (2010)
- [10] Lopez-Ibanez, M. and Stuetzle, T.: The impact of design choices of multiobjective antcolony optimization algorithms on performance: an experimental study on the biobjective TSP. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 71–78. ACM, Portland, Oregon, USA (2010)
- [11] Salim, S., Javed, M., and Akbar, A. H.: Honey-bee dancing-inspired architecture for fault tolerance in wireless sensor networks. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 79–80. ACM, Portland, Oregon, USA (2010)
- [12] Mohemmed, A. W., Zhang, M., and Browne, W. N.: Particle swarm optimisation for outlier detection. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 83–84. ACM, Portland, Oregon, USA (2010)
- [13] Brown, J. B. and Huber, M.: Pseudo-hierarchical ant-based clustering using a heterogeneous agent hierarchy and automatic boundary formation. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 85–86. ACM, Portland, Oregon, USA (2010)
- [14] Ducatelle, F., Di Caro, G. A., and Gambardella, L. M.: Cooperative self-organization in a heterogeneous swarm robotic system. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 87–94. ACM, Portland, Oregon, USA (2010)
- [15] Pilat, M. L. and Jacob, C.: Evolution of vision capabilities in embodied virtual creatures. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 95–102. ACM, Portland, Oregon, USA (2010)
- [16] Lehman, J. and Stanley, K. O.: Revising the evolutionary computation abstraction: minimal criteria novelty search. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 103–110. ACM, Portland, Oregon, USA (2010)
- [17] Bongard, J. C. and Hornby, G. S.: Guarding against premature convergence while accelerating evolutionary search. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon,

- A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 111–118. ACM, Portland, Oregon, USA (2010)
- [18] Koos, S., Mouret, J.-B., and Doncieux, S.: Crossing the reality gap in evolutionary robotics by promoting transferable controllers. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 119–126. ACM, Portland, Oregon, USA (2010)
- [19] Knudson, M. and Tumer, K.: Coevolution of heterogeneous multi-robot teams. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 127–134. ACM, Portland, Oregon, USA (2010)
- [20] Goldsby, H. J., Knoester, D. B., and Ofria, C.: Evolution of division of labor in genetically homogenous groups. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 135–142. ACM, Portland, Oregon, USA (2010)
- [21] Connelly, B. D., Beckmann, B. E., and McKinley, P. K.: Resource abundance promotes the evolution of public goods cooperation. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 143–150. ACM, Portland, Oregon, USA (2010)
- [22] Hiller, J. D. and Lipson, H.: Morphological evolution of freeform robots. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 151–152. ACM, Portland, Oregon, USA (2010)
- [23] Fernando, C.: Neuronal replicators solve the stability-plasticity dilemma. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 153–154. ACM, Portland, Oregon, USA (2010)
- [24] Wong, K.-C., Leung, K.-S., and Wong, M.-H.: Protein structure prediction on a lattice model via multimodal optimization techniques. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 155–162. ACM, Portland, Oregon, USA (2010)
- [25] Farinaccio, A., Vanneschi, L., Giacobini, M., Mauri, G., and Provero, P.: On the use of genetic programming for the prediction of survival in cancer. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual*

conference on Genetic and evolutionary computation, 163–170. ACM, Portland, Oregon, USA (2010)

- [26] Lo, L.-Y., Chan, T.-M., Lee, K.-H., and Leung, K.-S.: Challenges rising from learning motif evaluation functions using genetic programming. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 171–178. ACM, Portland, Oregon, USA (2010)
- [27] Kamath, U., De Jong, K. A., and Shehu, A.: Selecting predictive features for recognition of hypersensitive sites of regulatory genomic sequences with an evolutionary algorithm. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 179–186. ACM, Portland, Oregon, USA (2010)
- [28] García-Martínez, C., Lima, C., Twycross, J., Krasnogor, N., and Lozano, M.: P system model optimisation by means of evolutionary based search algorithms. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 187–194. ACM, Portland, Oregon, USA (2010)
- [29] Urbanowicz, R. J. and Moore, J. H.: The application of michigan-style learning classifiersystems to address genetic heterogeneity and epistasis in association studies. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 195–202. ACM, Portland, Oregon, USA (2010)
- [30] Holzinger, E. R., Buchanan, C. C., Dudek, S. M., Torstenson, E. C., Turner, S. D., and Ritchie, M. D.: Initialization parameter sweep in ATHENA: optimizing neural networks for detecting gene-gene interactions in the presence of small main effects. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 203–210. ACM, Portland, Oregon, USA (2010)
- [31] Atilgan, E. and Hu, J.: Efficient protein-ligand docking using sustainable evolutionary algorithm. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 211–212. ACM, Portland, Oregon, USA (2010)
- [32] Kubalik, J., Buryan, P., and Wagner, L.: Solving the DNA fragment assembly problem efficiently using iterative optimization with evolved hypermutations. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 213–214. ACM, Portland, Oregon, USA (2010)
- [33] Sinnott-Armstrong, N. A., Greene, C. S., and Moore, J. H.: Fast genome-wide epistasis analysis using ant colony optimization for multifactor dimensionality reduction analysis on graphics

- processing units. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 215–216. ACM, Portland, Oregon, USA (2010)
- [34] Jiang, H. and Chen, Y.: An efficient algorithm for generalized minimum spanning tree problem. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 217–224. ACM, Portland, Oregon, USA (2010)
- [35] Iordache, S.: Consultant-guided search: a new metaheuristic for combinatorial optimization problems. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 225–232. ACM, Portland, Oregon, USA (2010)
- [36] Wu, S. X. and Banzhaf, W.: A hierarchical cooperative evolutionary algorithm. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 233–240. ACM, Portland, Oregon, USA (2010)
- [37] Bibai, J., Saveant, P., Schoenauer, M., and Vidal, V.: On the generality of parameter tuning in evolutionary planning. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 241–248. ACM, Portland, Oregon, USA (2010)
- [38] Hildebrandt, T., Heger, J., and Scholz-Reiter, B.: Towards improved dispatching rules for complex shop floor scenarios: a genetic programming approach. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 257–264. ACM, Portland, Oregon, USA (2010)
- [39] Leung, K. M. and Zhang, X.: Discrete versus continuous parametrization of bank credit rating systems optimization using differential evolution. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 265–272. ACM, Portland, Oregon, USA (2010)
- [40] Stonedahl, F. and Stonedahl, S. H.: Heuristics for sampling repetitions in noisy landscapes with fitness caching. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 273–280. ACM, Portland, Oregon, USA (2010)
- [41] Ren, Z. and Feng, Z.: An ant colony optimization approach to the multiple-choice multidimensional knapsack problem. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P.,

- Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 281–288. ACM, Portland, Oregon, USA (2010)
- [42] Doğan, E., Erdal, F., and Saka, M. P.: Optimum design of grillage systems under code provisions using particle swarm optimization. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 289–290. ACM, Portland, Oregon, USA (2010)
- [43] Merelo, J. J., Mora, A. M., and Runarsson, T. P.: Beating exhaustive search at its own game: revisiting evolutionary mastermind. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 291–292. ACM, Portland, Oregon, USA (2010)
- [44] Tsai, C.-W., Tseng, S.-P., Chiang, M.-C., and Yang, C.-S.: A framework for accelerating metaheuristics via pattern reduction. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 293–294. ACM, Portland, Oregon, USA (2010)
- [45] Kimbrough, S. O., Kuo, A., and Lau, H. C.: Effective heuristic methods for finding non-optimal solutions of interest in constrained optimization models. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 295–296. ACM, Portland, Oregon, USA (2010)
- [46] López-Camacho, E., Terashima-Marín, H., Ross, P., and Valenzuela-Rendón, M.: Problem-state representations in a hyper-heuristic approach for the 2D irregular BPP. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 297–298. ACM, Portland, Oregon, USA (2010)
- [47] Montero, E., Riff, M.-C., and Neveu, B.: An evaluation of off-line calibration techniques for evolutionary algorithms. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 299–300. ACM, Portland, Oregon, USA (2010)
- [48] Steitz, W. and Rothlauf, F.: Solving OCST problems with problem-specific guided local search. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 301–302. ACM, Portland, Oregon, USA (2010)
- [49] Radetic, E. and Pelikan, M.: Spurious dependencies and EDA scalability. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 303–310. ACM, Portland, Oregon, USA (2010)

- [50] Chuang, C.-Y. and Hsu, W.-L.: Multivariate multi-model approach for globally multimodal problems. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 311–318. ACM, Portland, Oregon, USA (2010)
- [51] hui Zhong, J. and Zhang, J.: A robust estimation of distribution algorithm for power electronic circuits design. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 319–326. ACM, Portland, Oregon, USA (2010)
- [52] Yang, J., Xu, H., Cai, Y., and Jia, P.: Effective structure learning for EDA via L1-regularized bayesian networks. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 327–334. ACM, Portland, Oregon, USA (2010)
- [53] Luong, H. N., Nguyen, H. T., and Ahn, C. W.: Entropy-based substructural local search for the bayesian optimization algorithm. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 335–342. ACM, Portland, Oregon, USA (2010)
- [54] Nguyen, H. T., Luong, H. N., and Ahn, C. W.: Entropy measurement-based estimation model for bayesian optimization algorithm. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 343–350. ACM, Portland, Oregon, USA (2010)
- [55] Bosman, P. A.: The anticipated mean shift and cluster registration in mixture-based EDAs for multi-objective optimization. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 351–358. ACM, Portland, Oregon, USA (2010)
- [56] Salinas-Gutiérrez, R., Hernández-Aguirre, A., and Villa-Diharce, E. R.: D-vine EDA: a new estimation of distribution algorithm based on regular vines. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 359–366. ACM, Portland, Oregon, USA (2010)
- [57] Nikanjam, A., Sharifi, H., Helmi, B. H., and Rahmani, A.: A new DSM clustering algorithm for linkage groups identification. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 367–368. ACM, Portland, Oregon, USA (2010)
- [58] Melkozerov, A. and Beyer, H.-G.: On the analysis of self-adaptive evolution strategies on elliptic model: first results. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon,

- A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 369–376. ACM, Portland, Oregon, USA (2010)
- [59] Chwatal, A. M., Raidl, G. R., and Zöch, M.: Fitting multi-planet transit models to photometric time-data series by evolution strategies. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 377–384. ACM, Portland, Oregon, USA (2010)
- [60] Arnold, D. V. and Hansen, N.: Active covariance matrix adaptation for the (1+1)-CMA-ES. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 385–392. ACM, Portland, Oregon, USA (2010)
- [61] Glasmachers, T., Schaul, T., Yi, S., Wierstra, D., and Schmidhuber, J.: Exponential natural evolution strategies. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 393–400. ACM, Portland, Oregon, USA (2010)
- [62] Preuss, M., Rudolph, G., and Wessing, S.: Tuning optimization algorithms for real-world problems by means of surrogate modeling. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 401–408. ACM, Portland, Oregon, USA (2010)
- [63] Gong, W., Álvaro Fialho, and Cai, Z.: Adaptive strategy selection in differential evolution. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 409–416. ACM, Portland, Oregon, USA (2010)
- [64] Ma, H. and Simon, D.: Biogeography-based optimization with blended migration for constrained optimization problems. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 417–418. ACM, Portland, Oregon, USA (2010)
- [65] Gonzales, E., Mabu, S., Taboada, K., Hirasawa, K., and Shimada, K.: Pruning association rules using statistics and genetic relation algorithm. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 419–420. ACM, Portland, Oregon, USA (2010)
- [66] Shir, O. M., Roslund, J., and Rabitz, H.: Forced optimal covariance adaptive learning: modified CMA-ES for efficient hessian determination. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 421–422. ACM, Portland, Oregon, USA (2010)

- [67] Liu, R., Zhang, W., Jiao, L., Liu, F., and Ma, J.: A sphere-dominance based preference immune-inspired algorithm for dynamic multi-objective optimization. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 423–430. ACM, Portland, Oregon, USA (2010)
- [68] Lochtefeld, D. F. and Ciarallo, F. W.: Deterministic helper-objective sequences applied to job-shop scheduling. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 431–438. ACM, Portland, Oregon, USA (2010)
- [69] Schrum, J. and Miikkulainen, R.: Evolving agent behavior in multiobjective domains using fitness-based shaping. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 439–446. ACM, Portland, Oregon, USA (2010)
- [70] Ulrich, T., Bader, J., and Zitzler, E.: Integrating decision space diversity into hypervolume-based multiobjective search. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 455–462. ACM, Portland, Oregon, USA (2010)
- [71] Li, M., Zheng, J., Shen, R., Li, K., and Yuan, Q.: A grid-based fitness strategy for evolutionary many-objective optimization. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 463–470. ACM, Portland, Oregon, USA (2010)
- [72] Loshchilov, I., Schoenauer, M., and Sebag, M.: A mono surrogate for multiobjective optimization. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 471–478. ACM, Portland, Oregon, USA (2010)
- [73] Sharma, D. and Collet, P.: An archived-based stochastic ranking evolutionary algorithm (asrea) for multi-objective optimization. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 479–486. ACM, Portland, Oregon, USA (2010)
- [74] Voß, T., Hansen, N., and Igel, C.: Improved step size adaptation for the MO-CMA-ES. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 487–494. ACM, Portland, Oregon, USA (2010)
- [75] Berghammer, R., Friedrich, T., and Neumann, F.: Set-based multi-objective optimization, indicators, and deteriorative cycles. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard,

- J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 495–502. ACM, Portland, Oregon, USA (2010)
- [76] Kramer, O. and Danielsiek, H.: DBSCAN-based multi-objective niching to approximate equivalent pareto-subsets. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 503–510. ACM, Portland, Oregon, USA (2010)
- [77] Bringmann, K. and Friedrich, T.: The maximum hypervolume set yields near-optimal approximation. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 511–518. ACM, Portland, Oregon, USA (2010)
- [78] Ishibuchi, H., Sakane, Y., Tsukamoto, N., and Nojima, Y.: Simultaneous use of different scalarizing functions in MOEA/D. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 519–526. ACM, Portland, Oregon, USA (2010)
- [79] Folino, F. and Pizzuti, C.: Multiobjective evolutionary community detection for dynamic networks. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 535–536. ACM, Portland, Oregon, USA (2010)
- [80] Zapotecas Martínez, S. and Coello Coello, C. A.: A multi-objective meta-model assisted memetic algorithm with non gradient-based local search. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 537–538. ACM, Portland, Oregon, USA (2010)
- [81] Dumitrescu, D., Lung, R. I., Nagy, R., Zaharie, D., and Bartha, A.: Exploring evolutionary detected fuzzy equilibria: a link between normative theory and real life. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 539–540. ACM, Portland, Oregon, USA (2010)
- [82] Hutzschenreuter, A. K., Bosman, P. A., and La Poutré, H.: Enhanced hospital resource management using anticipatory policies in online dynamic multi-objective optimization. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 541–542. ACM, Portland, Oregon, USA (2010)
- [83] Schmidt, M. D. and Lipson, H.: Age-fitness pareto optimization. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D.,

van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 543–544. ACM, Portland, Oregon, USA (2010)

- [84] Martí, L., García, J., Berlanga, A., and Molina, J. M.: Moving away from error-based learning in multi-objective estimation of distribution algorithms. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 545–546. ACM, Portland, Oregon, USA (2010)
- [85] Verbancsics, P. and Stanley, K. O.: Transfer learning through indirect encoding. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 547–554. ACM, Portland, Oregon, USA (2010)
- [86] Downing, K. L.: The baldwin effect in developing neural networks. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 555–562. ACM, Portland, Oregon, USA (2010)
- [87] Risi, S., Lehman, J., and Stanley, K. O.: Evolving the placement and density of neurons in the hyperneat substrate. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 563–570. ACM, Portland, Oregon, USA (2010)
- [88] Steiner, T., Jin, Y., and Sendhoff, B.: Evolving heterochrony for cellular differentiation using vector field embryogeny. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 571–578. ACM, Portland, Oregon, USA (2010)
- [89] Harding, S., Miller, J. F., and Banzhaf, W.: Self modifying cartesian genetic programming: finding algorithms that calculate pi and e to arbitrary precision. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 579–586. ACM, Portland, Oregon, USA (2010)
- [90] Mouret, J.-B., Doncieux, S., and Girard, B.: Importing the computational neuroscience toolbox into neuro-evolution-application to basal ganglia. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 587–594. ACM, Portland, Oregon, USA (2010)
- [91] Trefzer, M. A., Kuyucu, T., Miller, J. F., and Tyrrell, A. M.: Image compression of natural images using artificial gene regulatory networks. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 595–602. ACM, Portland, Oregon, USA (2010)

- [92] Knoester, D. B., Goldsby, H. J., and McKinley, P. K.: Neuroevolution of mobile ad hoc networks. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 603–610. ACM, Portland, Oregon, USA (2010)
- [93] Moriguchi, H. and Honiden, S.: Sustaining behavioral diversity in NEAT. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 611–618. ACM, Portland, Oregon, USA (2010)
- [94] Koutnik, J., Gomez, F., and Schmidhuber, J.: Evolving neural networks in compressed weight space. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 619–626. ACM, Portland, Oregon, USA (2010)
- [95] Auerbach, J. E. and Bongard, J. C.: Evolving CPPNs to grow three-dimensional physical structures. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 627–634. ACM, Portland, Oregon, USA (2010)
- [96] Clune, J., Beckmann, B. E., McKinley, P. K., and Ofria, C.: Investigating whether hyperNEAT produces modular neural networks. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 635–642. ACM, Portland, Oregon, USA (2010)
- [97] Inden, B., Jin, Y., Haschke, R., and Ritter, H.: NEATfields: evolution of neural fields. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 645–646. ACM, Portland, Oregon, USA (2010)
- [98] Soule, T. and Heckendorn, R. B.: A developmental algorithm for multi-agent swarms with scalable hierarchies. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 647–648. ACM, Portland, Oregon, USA (2010)
- [99] Collier, R. and Wineberg, M.: Approaches to multidimensional scaling for adaptive landscape visualization. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 649–656. ACM, Portland, Oregon, USA (2010)
- [100] Benjamin, J. and Julstrom, B. A.: Breaking ties with secondary fitness in a genetic algorithm for the bin packing problem. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P.,

- Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 657–664. ACM, Portland, Oregon, USA (2010)
- [101] Pelikan, M.: NK landscapes, problem difficulty, and hybrid evolutionary algorithms. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 665–672. ACM, Portland, Oregon, USA (2010)
- [102] Yehoshua, R., Avigal, M., and Unger, R.: Analysis of the effects of lifetime learning on population fitness using vose model. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 681–688. ACM, Portland, Oregon, USA (2010)
- [103] Tulshyan, R., Arora, R., Deb, K., and Dutta, J.: Investigating EA solutions for approximate KKT conditions in smooth problems. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 689–696. ACM, Portland, Oregon, USA (2010)
- [104] Lien, T.-C., Yu, T.-L., and You, Y.-S.: Co-evolution of cooperative strategies under egoism. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 697–704. ACM, Portland, Oregon, USA (2010)
- [105] Jansen, T. and Zarges, C.: Aging beyond restarts. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 705–712. ACM, Portland, Oregon, USA (2010)
- [106] Hauschild, M. W. and Pelikan, M.: Network crossover performance on NK landscapes and deceptive problems. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 713–720. ACM, Portland, Oregon, USA (2010)
- [107] Vafaei, F., Turán, G., and Nelson, P. C.: Optimizing genetic operator rates using a markov chain model of genetic algorithms. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 721–728. ACM, Portland, Oregon, USA (2010)
- [108] Wen, Y., Xu, H., and Yang, J.: A heuristic-based hybrid genetic algorithm for heterogeneous multiprocessor scheduling. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 729–736. ACM, Portland, Oregon, USA (2010)

- [109] Unachak, P. and Goodman, E.: Solving multiobjective flexible job-shop scheduling using an adaptive representation. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 737–742. ACM, Portland, Oregon, USA (2010)
- [110] de Mendonca Neta, B. M., Araujo, G. H. D., Guimaraes, F. G., and Mesquita, R. C.: A hybrid genetic algorithm for automatic graph drawing based on the topology-shape-metric approach. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 743–750. ACM, Portland, Oregon, USA (2010)
- [111] Barreto, A. M., Bernardino, H. S., and Barbosa, H. J.: Probabilistic performance profiles for the experimental evaluation of stochastic algorithms. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 751–758. ACM, Portland, Oregon, USA (2010)
- [112] Doerr, B. and Johannsen, D.: Edge-based representation beats vertex-based representation in shortest path problems. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 759–766. ACM, Portland, Oregon, USA (2010)
- [113] Álvaro Fialho, Schoenauer, M., and Sebag, M.: Toward comparison-based adaptive operator selection. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 767–774. ACM, Portland, Oregon, USA (2010)
- [114] Galan, S. F. and Mengshoel, O. J.: Generalized crowding for genetic algorithms. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 775–782. ACM, Portland, Oregon, USA (2010)
- [115] Avery, P. and Louis, S.: Coevolving influence maps for spatial team tactics in a RTS game. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 783–790. ACM, Portland, Oregon, USA (2010)
- [116] Carlson, B. P. and Hougen, D. F.: Phenotype feedback genetic algorithm operators for heuristic encoding of snakes within hypercubes. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 791–798. ACM, Portland, Oregon, USA (2010)
- [117] Crofford, J., Eskridge, B. E., and Hougen, D. F.: Applying the triple parameter hypothesis to maintenance scheduling. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J.,

- Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 799–806. ACM, Portland, Oregon, USA (2010)
- [118] Cook, J. E. and Tauritz, D. R.: An exploration into dynamic population sizing. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 807–814. ACM, Portland, Oregon, USA (2010)
- [119] Ter-Sarkisov, A., Marsland, S. R., and Holland, B. R.: The K-bit-swap: a new genetic algorithm operator. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 815–816. ACM, Portland, Oregon, USA (2010)
- [120] De Prisco, R., Zaccagnino, G., and Zaccagnino, R.: EvoBassComposer: a multi-objective genetic algorithm for 4-voice compositions. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 817–818. ACM, Portland, Oregon, USA (2010)
- [121] Nadi, F., Khader, A. T., and Al-Betar, M. A.: Adaptive genetic algorithm using harmony search. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 819–820. ACM, Portland, Oregon, USA (2010)
- [122] Kureichik, V. M., Lebedev, B. K., and Lebedev, O. B.: Hybrid evolutionary algorithm of planning VLSI. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 821–822. ACM, Portland, Oregon, USA (2010)
- [123] Addicoat, M. A. and Brain, Z. E.: Using a Meta-GA for parametric optimization of simple gas in the computational chemistry domain. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 823–824. ACM, Portland, Oregon, USA (2010)
- [124] Abbas, H. M.: Mixed-coded evolutionary algorithm for Gaussian mixture maximum likelihood clustering with model selection. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 825–826. ACM, Portland, Oregon, USA (2010)
- [125] Esparcia-Alcazár, A. I., Martínez-García, A., Mora, A. M., Merelo, J. J., and García-Sánchez, P.: Genetic evolution of fuzzy finite state machines to control bots in a first-person shooter game. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10:*

Proceedings of the 12th annual conference on Genetic and evolutionary computation, 829–830. ACM, Portland, Oregon, USA (2010)

- [126] Ortegon-Cano, P., Hartasanchez, D. A., and Stephens, C. R.: Why recombination should be adaptive. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O’Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO ’10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 831–832. ACM, Portland, Oregon, USA (2010)
- [127] Meekhof, T. and Soule, T.: Noise pressure: systematic overestimation of population fitness in genetic algorithms with noisy fitness functions. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O’Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO ’10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 833–834. ACM, Portland, Oregon, USA (2010)
- [128] Herrera-Ortiz, J. A., Oliver-Morales, C., and Rodríguez-Vázquez, K.: Amount and type of information: a GA-hardness taxonomy. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O’Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO ’10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 835–836. ACM, Portland, Oregon, USA (2010)
- [129] Bhowan, U., Zhang, M., and Johnston, M.: AUC analysis of the pareto-front using multi-objective GP for classification with unbalanced data. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O’Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO ’10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 845–852. ACM, Portland, Oregon, USA (2010)
- [130] Lichodziejewski, P. and Heywood, M. I.: Symbiosis, complexification and simplicity under GP. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O’Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO ’10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 853–860. ACM, Portland, Oregon, USA (2010)
- [131] Trujillo, L., Legrand, P., and Lévy-Véhel, J.: The estimation of hölderian regularity using genetic programming. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O’Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO ’10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 861–868. ACM, Portland, Oregon, USA (2010)
- [132] Uy, N. Q., Hoai, N. X., O’Neill, M., and McKay, B.: Semantics based crossover for boolean problems. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O’Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO ’10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 869–876. ACM, Portland, Oregon, USA (2010)
- [133] Downey, C., Zhang, M., and Browne, W. N.: New crossover operators in linear genetic programming for multiclass object classification. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O’Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO ’10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 885–892. ACM, Portland, Oregon, USA (2010)

- [134] Azad, R. M. A. and Ryan, C.: Abstract functions and lifetime learning in genetic programming for symbolic regression. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 893–900. ACM, Portland, Oregon, USA (2010)
- [135] Galván-López, E., McDermott, J., O'Neill, M., and Brabazon, A.: Towards an understanding of locality in genetic programming. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 901–908. ACM, Portland, Oregon, USA (2010)
- [136] Zafra, A. and Ventura, S.: Grammar guided genetic programming for multiple instance learning: an experimental study. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 909–916. ACM, Portland, Oregon, USA (2010)
- [137] Pennachin, C. L., Looks, M., and de Vasconcelos, J. A.: Robust symbolic regression with affine arithmetic. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 917–924. ACM, Portland, Oregon, USA (2010)
- [138] Augusto, D. A., Barbosa, H. J. C., and Ebecken, N. F. F.: Coevolutionary multi-population genetic programming for data classification. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 933–940. ACM, Portland, Oregon, USA (2010)
- [139] Vladislavleva, K., Veeramachaneni, K., Burland, M., Parcon, J., and O'Reilly, U.-M.: Knowledge mining with genetic programming methods for variable selection in flavor design. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 941–948. ACM, Portland, Oregon, USA (2010)
- [140] Foster, B. and Somayaji, A.: Object-level recombination of commodity applications. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 957–964. ACM, Portland, Oregon, USA (2010)
- [141] Fast, E., Le Gouse, C., Forrest, S., and Weimer, W.: Designing better fitness functions for automated program repair. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 965–972. ACM, Portland, Oregon, USA (2010)
- [142] Momm, H. G. and Easson, G.: Population restarting: a study case of feature extraction from remotely sensed imagery using textural information. In Branke, J., Pelikan, M., Alba, E., Arnold,

- D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 973–974. ACM, Portland, Oregon, USA (2010)
- [143] Barrero, D. F., Camacho, D., and R-Moreno, M. D.: Confidence intervals of success rates in evolutionary computation. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 975–976. ACM, Portland, Oregon, USA (2010)
- [144] Ahalpara, D. P.: Improved forecasting of time series data of real system using genetic programming. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 977–978. ACM, Portland, Oregon, USA (2010)
- [145] Wang, J. and Tan, Y.: A novel genetic programming based morphological image analysis algorithm. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 979–980. ACM, Portland, Oregon, USA (2010)
- [146] Curran, D., Freuder, E., and Jansen, T.: Incremental evolution of local search heuristics. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 981–982. ACM, Portland, Oregon, USA (2010)
- [147] Gajda, Z. and Sekanina, L.: When does Cartesian genetic programming minimize the phenotype size implicitly? In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 983–984. ACM, Portland, Oregon, USA (2010)
- [148] Borges, C. E., Alonso, C. L., and Montana, J. L.: Model selection in genetic programming. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 985–986. ACM, Portland, Oregon, USA (2010)
- [149] McMullin, M. and Soule, T.: Constant versus variable arity operators in genetic programming. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 987–988. ACM, Portland, Oregon, USA (2010)
- [150] Alonso, F., Martínez, L., Santamaría, A., Pérez, A., and Valente, J. P.: GGGP-based method for modeling time series: operator selection, parameter optimization and expert evaluation. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10:*

Proceedings of the 12th annual conference on Genetic and evolutionary computation, 989–990. ACM, Portland, Oregon, USA (2010)

- [151] Toledo-Suárez, C. D.: A first assessment of the use of extended relational alphabets in accuracy classifier systems. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 991–998. ACM, Portland, Oregon, USA (2010)
- [152] Manning, E. P.: Coevolution in a large search space using resource-limited nash memory. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 999–1006. ACM, Portland, Oregon, USA (2010)
- [153] Johansson, U., König, R., and Niklasson, L.: Genetic rule extraction optimizing brier score. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1007–1014. ACM, Portland, Oregon, USA (2010)
- [154] Lode, C., Richter, U., and Schmeck, H.: Adaption of XCS to multi-learner predator/prey scenarios. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1015–1022. ACM, Portland, Oregon, USA (2010)
- [155] Orriols-Puig, A., Llorà, X., and Goldberg, D. E.: How XCS deals with rarities in domains with continuous attributes. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1023–1030. ACM, Portland, Oregon, USA (2010)
- [156] Snel, M. and Whiteson, S.: Multi-task evolutionary shaping without pre-specified representations. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1031–1038. ACM, Portland, Oregon, USA (2010)
- [157] Franco, M. A., Krasnogor, N., and Bacardit, J.: Speeding up the evaluation of evolutionary learning systems using GPGPUs. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1039–1046. ACM, Portland, Oregon, USA (2010)
- [158] Liškiewicz, M. and Textor, J.: Negative selection algorithms without generating detectors. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1047–1054. ACM, Portland, Oregon, USA (2010)

- [159] Macià, N., Orriols-Puig, A., and Bernadó-Mansilla, E.: In search of targeted-complexity problems. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1055–1062. ACM, Portland, Oregon, USA (2010)
- [160] Su, C., Gao, Y., and Cao, C.: Learning classifier system using both labeled and unlabeled data. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1065–1066. ACM, Portland, Oregon, USA (2010)
- [161] Behdad, M., French, T., Barone, L., and Bennamoun, M.: On the problems of using learning classifier systems for fraud detection. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1067–1068. ACM, Portland, Oregon, USA (2010)
- [162] Meiguins, A. S., Freitas, A. A., Lima, R. C., Junior, S. F., and Meiguins, B. S.: An estimation of distribution algorithm for the automatic generation of clustering algorithms. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1069–1070. ACM, Portland, Oregon, USA (2010)
- [163] Buryan, P. and Kubalik, J.: Context-sensitive refinements for stochastic optimization algorithms in inductive logic programming. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1071–1072. ACM, Portland, Oregon, USA (2010)
- [164] Rajagopalan, P., Rawal, A., and Miikkulainen, R.: Emergence of competitive and cooperative behavior using coevolution. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1073–1074. ACM, Portland, Oregon, USA (2010)
- [165] Walton, M., Grewal, G., and Darlington, G.: Parallel FPGA-based implementation of scatter search. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1075–1082. ACM, Portland, Oregon, USA (2010)
- [166] Luque, G. and Alba, E.: Selection pressure and takeover time of distributed evolutionary algorithms. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1083–1088. ACM, Portland, Oregon, USA (2010)
- [167] Vrajitoru, D.: Shared memory genetic algorithms in a multi-agent context. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen,

- M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1097–1104. ACM, Portland, Oregon, USA (2010)
- [168] Lässig, J. and Sudholt, D.: The benefit of migration in parallel evolutionary algorithms. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1105–1112. ACM, Portland, Oregon, USA (2010)
 - [169] Shimada, K. and Hirasawa, K.: A method of association rule analysis for incomplete database using genetic network programming. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1115–1122. ACM, Portland, Oregon, USA (2010)
 - [170] Salichon, M. and Tumer, K.: A neuro-evolutionary approach to micro aerial vehicle control. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1123–1130. ACM, Portland, Oregon, USA (2010)
 - [171] II, J. F. S. and Tumer, K.: Robust neuro-control for a micro quadrotor. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1131–1138. ACM, Portland, Oregon, USA (2010)
 - [172] Wilson, G. and Banzhaf, W.: Interday foreign exchange trading using linear genetic programming. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1139–1146. ACM, Portland, Oregon, USA (2010)
 - [173] Myburgh, C. and Deb, K.: Evolutionary algorithms in large-scale open pit mine scheduling. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1155–1162. ACM, Portland, Oregon, USA (2010)
 - [174] Garrett, A., Chen, Z., and Smith, D. E.: Constructing numerically stable real number codes using evolutionary computation. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1163–1170. ACM, Portland, Oregon, USA (2010)
 - [175] Jaros, J. and Dvorak, V.: Evolutionary-based conflict-free scheduling of collective communications on spidergon NoCs. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1171–1178. ACM, Portland, Oregon, USA (2010)

- [176] Kim, K., McKay, R. B., and Moon, B.-R.: Multiobjective evolutionary algorithms for dynamic social network clustering. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1179–1186. ACM, Portland, Oregon, USA (2010)
- [177] Reehuis, E. and Bäck, T.: Mixed-integer evolution strategy using multiobjective selection applied to warehouse design optimization. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1187–1194. ACM, Portland, Oregon, USA (2010)
- [178] Al-Betar, M. A., Khader, A. T., and Nadi, F.: Selection mechanisms in memory consideration for examination timetabling with harmony search. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1203–1210. ACM, Portland, Oregon, USA (2010)
- [179] Lee, S.-K. and Moon, B.-R.: A new modular genetic programming for finding attractive technical patterns in stock markets. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1219–1226. ACM, Portland, Oregon, USA (2010)
- [180] Colmenar, J. M., Risco-Martín, J. L., Atienza, D., Garnica, O., Hidalgo, J. I., and Lanchares, J.: Improving reliability of embedded systems through dynamic memory manager optimization using grammatical evolution. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1227–1234. ACM, Portland, Oregon, USA (2010)
- [181] Ovrieu, M. and Simon, D.: Biogeography-based optimization of neuro-fuzzy system parameters for diagnosis of cardiac disease. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1235–1242. ACM, Portland, Oregon, USA (2010)
- [182] Stracquadanio, G., Drago, C., Romano, V., and Nicosia, G.: Multi-objective optimization of doping profile in semiconductor design. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1243–1250. ACM, Portland, Oregon, USA (2010)
- [183] Pedersen, G. K. and Butz, M. V.: Evolving robust controller parameters using covariance matrix adaptation. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1251–1258. ACM, Portland, Oregon, USA (2010)
- [184] Padhye, N. and Deb, K.: Evolutionary multi-objective optimization and decision making for selective laser sintering. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J.,

- Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1259–1266. ACM, Portland, Oregon, USA (2010)
- [185] Ceriani, M., Ferrandi, F., Lanzi, P. L., Sciuto, D., and Tumeo, A.: Multiprocessor systems-on-chip synthesis using multi-objective evolutionary computation. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1267–1274. ACM, Portland, Oregon, USA (2010)
- [186] Tanji, M. and Iba, H.: ConBreO: a music performance rendering system using hybrid approach of IEC and automated evolution. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1275–1282. ACM, Portland, Oregon, USA (2010)
- [187] Veeramachaneni, K., Vladislavleva, K., Burland, M., Parcon, J., and O'Reilly, U.-M.: Evolutionary optimization of flavors. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1291–1298. ACM, Portland, Oregon, USA (2010)
- [188] Mayfield, E. and Penstein-Rosé, C.: Using feature construction to avoid large feature spaces in text classification. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1299–1306. ACM, Portland, Oregon, USA (2010)
- [189] Sierra, A. and Ponsoda, V.: Shorter, more reliable and valid tests by means of a genetic algorithm. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1307–1308. ACM, Portland, Oregon, USA (2010)
- [190] Choi, Y.-S., Koo, B.-K., and Moon, B.-R.: Optimization of an image set by genetic feature selection for real-time photomosaics. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1309–1310. ACM, Portland, Oregon, USA (2010)
- [191] Sugawara, T., Fukuda, K., Hirotsu, T., and Kurihara, S.: Adaptive probabilistic task allocation in large-scale multi-agent systems and its evaluation. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1311–1312. ACM, Portland, Oregon, USA (2010)
- [192] de A. Araújo, R., de Oliveira, A. L., and Soares, S. C.: A covariance matrix adaptation based evolutionary methodology for phase adjustment in financial time series forecasting. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune,

- J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1315–1316. ACM, Portland, Oregon, USA (2010)
- [193] Mosnier, D., Gillot, F., Ducloux, A., and Ichchou, M.: Integrated pre-design step methodology based on multi-objective evolutionary optimization. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1317–1318. ACM, Portland, Oregon, USA (2010)
- [194] You, Y.-S., Yu, T.-L., and Lien, T.-C.: Psychological preference-based optimization framework on the nurse scheduling problem. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1319–1320. ACM, Portland, Oregon, USA (2010)
- [195] Sato, M., Sato, Y., and Namiki, M.: Proposal of a multi-core processor architecture for effective evolutionary computation. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1321–1322. ACM, Portland, Oregon, USA (2010)
- [196] Tutum, C. C. and Hattel, J. H.: Multi-objective optimization of process parameters in friction stir welding. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1323–1324. ACM, Portland, Oregon, USA (2010)
- [197] Roychoudhury, S., Das, S., Scoglio, C., Das, S., Panigrahi, B. K., and Pattnaik, S. S.: Mitigation strategies in epidemics: evolutionary optimization using a hierarchy of objective functions. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1325–1326. ACM, Portland, Oregon, USA (2010)
- [198] Evins, R., Pointer, P., and Vaidyanathan, R.: Configuration of a genetic algorithm for multi-objective optimisation of solar gain to buildings. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1327–1328. ACM, Portland, Oregon, USA (2010)
- [199] Di Carlo, S., Sanchez, E., Scionti, A., Squillero, G., Tonda, A. P., and Falasconi, M.: Towards drift correction in chemical sensors using an evolutionary strategy. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1329–1330. ACM, Portland, Oregon, USA (2010)
- [200] Afridi, M. J., Manzoor, S., Rasheed, U., Ahmed, M., and Faraz, K.: Performance evaluation of evolutionary algorithms for road detection. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K.,

- Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1331–1332. ACM, Portland, Oregon, USA (2010)
- [201] Jensen, A. C. and Cheng, B. H.: On the use of genetic programming for automated refactoring and the introduction of design patterns. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1341–1348. ACM, Portland, Oregon, USA (2010)
- [202] Windisch, A.: Search-based test data generation from stateflow statecharts. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1349–1356. ACM, Portland, Oregon, USA (2010)
- [203] Zhang, Y., Alba, E., Durillo, J. J., Eldh, S., and Harman, M.: Today/future importance analysis. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1357–1364. ACM, Portland, Oregon, USA (2010)
- [204] Xu, Z., Cohen, M. B., and Rothermel, G.: Factors affecting the use of genetic algorithms in test suite augmentation. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1365–1372. ACM, Portland, Oregon, USA (2010)
- [205] Conrad, A. P., Roos, R. S., and Kapfhammer, G. M.: Empirically studying the role of selection operators during search-based test suite prioritization. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1373–1380. ACM, Portland, Oregon, USA (2010)
- [206] Hall, M., McMinn, P., and Walkinshaw, N.: Superstate identification for state machines using search-based clustering. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1381–1388. ACM, Portland, Oregon, USA (2010)
- [207] Kremmel, T., Kubalik, J., and Biffl, S.: Multiobjective evolutionary algorithm for software project portfolio optimization. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1389–1390. ACM, Portland, Oregon, USA (2010)
- [208] Wilkerson, J. L. and Tauritz, D.: Coevolutionary automated software correction. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1391–1392. ACM, Portland, Oregon, USA (2010)

- [209] Kötzing, T., Lehre, P. K., Neumann, F., and Oliveto, P. S.: Ant colony optimization and the minimum cut problem. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1393–1400. ACM, Portland, Oregon, USA (2010)
- [210] Akimoto, Y., Nagata, Y., Ono, I., and Kobayashi, S.: Theoretical analysis of evolutionary computation on continuously differentiable functions. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1401–1408. ACM, Portland, Oregon, USA (2010)
- [211] Whitley, L. D., Chicano, F., Alba, E., and Luna, F.: Elementary landscapes of frequency assignment problems. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1409–1416. ACM, Portland, Oregon, USA (2010)
- [212] Sanyal, S., S, R., and Biswas, S.: Necessary and sufficient conditions for success of the metropolis algorithm for optimization. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1417–1424. ACM, Portland, Oregon, USA (2010)
- [213] Chicano, F., Luque, G., and Alba, E.: Elementary landscape decomposition of the quadratic assignment problem. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1425–1432. ACM, Portland, Oregon, USA (2010)
- [214] Johannsen, D., Kurur, P. P., and Lengler, J.: Can quantum search accelerate evolutionary algorithms? In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1433–1440. ACM, Portland, Oregon, USA (2010)
- [215] Lehre, P. K. and Witt, C.: Black-box search by unbiased variation. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1441–1448. ACM, Portland, Oregon, USA (2010)
- [216] Horoba, C. and Sudholt, D.: Ant colony optimization for stochastic shortest path problems. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1465–1472. ACM, Portland, Oregon, USA (2010)
- [217] Manzoni, L., Vanneschi, L., and Mauri, G.: Definition of a crossover based distance for genetic algorithms. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N.,

- Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1473–1474. ACM, Portland, Oregon, USA (2010)
- [218] Valsecchi, A., Vanneschi, L., and Mauri, G.: Optimization speed and fair sets of functions. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1475–1476. ACM, Portland, Oregon, USA (2010)
- [219] de Mattos Neto, P. S., Lima Junior, A. R., and Ferreira, T. A.: Time series forecasting using a perturbative intelligent system. In Branke, J., Pelikan, M., Alba, E., Arnold, D. V., Bongard, J., Brabazon, A., Branke, J., Butz, M. V., Clune, J., Cohen, M., Deb, K., Engelbrecht, A. P., Krasnogor, N., Miller, J. F., O'Neill, M., Sastry, K., Thierens, D., van Hemert, J., Vanneschi, L., and Witt, C., eds., *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, 1477–1478. ACM, Portland, Oregon, USA (2010)