

## Список литературы

- [Abbas, 2010] Abbas, H. M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 825–826, Portland, Oregon, USA. ACM.
- [Addicoat and Brain, 2010] Addicoat, M. A. and Brain, Z. E. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 823–824, Portland, Oregon, USA. ACM.
- [Afridi et al., 2010] Afridi, M. J.; Manzoor, S.; Rasheed, U.; Ahmed, M.; and Faraz, K. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1331–1332, Portland, Oregon, USA. ACM.
- [Ahalpara, 2010] Ahalpara, D. P. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 977–978, Portland, Oregon, USA. ACM.
- [Akimoto et al., 2010] Akimoto, Y.; Nagata, Y.; Ono, I.; and Kobayashi, S. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1401–1408, Portland, Oregon, USA. ACM.
- [Al-Betar et al., 2010] Al-Betar, M. A.; Khader, A. T.; and Nadi, F. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1203–1210, Portland, Oregon, USA. ACM.
- [Alonso et al., 2010] Alonso, F.; Martínez, L.; Santamaría, A.; Pérez, A.; and Valente, J. P. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 989–990, Portland, Oregon, USA. ACM.
- [Álvaro Fialho et al., 2010] Álvaro Fialho; Schoenauer, M.; and Sebag, M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 767–774, Portland, Oregon, USA. ACM.
- [Arnold and Hansen, 2010] Arnold, D. V. and Hansen, N. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 385–392, Portland, Oregon, USA. ACM.
- [Atilgan and Hu, 2010] Atilgan, E. and Hu, J. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 211–212, Portland, Oregon, USA. ACM.
- [Auerbach and Bongard, 2010] Auerbach, J. E. and Bongard, J. C. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 627–634, Portland, Oregon, USA. ACM.
- [Augusto et al., 2010] Augusto, D. A.; Barbosa, H. J. C.; and Ebecken, N. F. F. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 933–940, Portland, Oregon, USA. ACM.
- [Avery and Louis, 2010] Avery, P. and Louis, S. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 783–790, Portland, Oregon, USA. ACM.
- [Azad and Ryan, 2010] Azad, R. M. A. and Ryan, C. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 893–900, Portland, Oregon, USA. ACM.
- [Barrero et al., 2010] Barrero, D. F.; Camacho, D.; and R-Moreno, M. D. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 975–976, Portland, Oregon, USA. ACM.
- [Barreto et al., 2010] Barreto, A. M.; Bernardino, H. S.; and Barbosa, H. J. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 751–758, Portland, Oregon, USA. ACM.

- [Behdad et al., 2010] Behdad, M.; French, T.; Barone, L.; and Bennamoun, M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1067–1068, Portland, Oregon, USA. ACM.
- [Benjamin and Julstrom, 2010] Benjamin, J. and Julstrom, B. A. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 657–664, Portland, Oregon, USA. ACM.
- [Berghammer et al., 2010] Berghammer, R.; Friedrich, T.; and Neumann, F. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 495–502, Portland, Oregon, USA. ACM.
- [Bhowan et al., 2010] Bhowan, U.; Zhang, M.; and Johnston, M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 845–852, Portland, Oregon, USA. ACM.
- [Bibai et al., 2010] Bibai, J.; Saveant, P.; Schoenauer, M.; and Vidal, V. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 241–248, Portland, Oregon, USA. ACM.
- [Bongard and Hornby, 2010] Bongard, J. C. and Hornby, G. S. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 111–118, Portland, Oregon, USA. ACM.
- [Borges et al., 2010] Borges, C. E.; Alonso, C. L.; and Montana, J. L. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 985–986, Portland, Oregon, USA. ACM.
- [Bosman, 2010] Bosman, P. A. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 351–358, Portland, Oregon, USA. ACM.
- [Bringmann and Friedrich, 2010] Bringmann, K. and Friedrich, T. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 511–518, Portland, Oregon, USA. ACM.
- [Brown and Huber, 2010] Brown, J. B. and Huber, M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 85–86, Portland, Oregon, USA. ACM.
- [Buryan and Kubalik, 2010] Buryan, P. and Kubalik, J. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1071–1072, Portland, Oregon, USA. ACM.
- [Carlson and Hougen, 2010] Carlson, B. P. and Hougen, D. F. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 791–798, Portland, Oregon, USA. ACM.
- [Ceriani et al., 2010] Ceriani, M.; Ferrandi, F.; Lanzi, P. L.; Sciuto, D.; and Tumeo, A. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1267–1274, Portland, Oregon, USA. ACM.
- [Chen et al., 2010] Chen, Z.; He, Z.; and Zhang, C. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 9–14, Portland, Oregon, USA. ACM.
- [Chicano et al., 2010] Chicano, F.; Luque, G.; and Alba, E. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1425–1432, Portland, Oregon, USA. ACM.
- [Choi et al., 2010] Choi, Y.-S.; Koo, B.-K.; and Moon, B.-R. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1309–1310, Portland, Oregon, USA. ACM.
- [Chuang and Hsu, 2010] Chuang, C.-Y. and Hsu, W.-L. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 311–318, Portland, Oregon, USA. ACM.
- [Chwatal et al., 2010] Chwatal, A. M.; Raidl, G. R.; and Zöch, M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 377–384, Portland, Oregon, USA. ACM.
- [Clune et al., 2010] Clune, J.; Beckmann, B. E.; McKinley, P. K.; and Ofria, C. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 635–642, Portland, Oregon, USA. ACM.
- [Collier and Wineberg, 2010] Collier, R. and Wineberg, M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 649–656, Portland, Oregon, USA. ACM.
- [Colmenar et al., 2010] Colmenar, J. M.; Risco-Martín, J. L.; Atienza, D.; Garnica, O.; Hidalgo, J. I.; and Lanchares, J. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1227–1234, Portland, Oregon, USA. ACM.
- [Connelly et al., 2010] Connelly, B. D.; Beckmann, B. E.; and McKinley, P. K. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 143–150, Portland, Oregon, USA. ACM.
- [Conrad et al., 2010] Conrad, A. P.; Roos, R. S.; and Kapfhammer, G. M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1373–1380, Portland, Oregon, USA. ACM.
- [Cook and Tauritz, 2010] Cook, J. E. and Tauritz, D. R. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 807–814, Portland, Oregon, USA. ACM.
- [Crofford et al., 2010] Crofford, J.; Eskridge, B. E.; and Hougen, D. F. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 799–806, Portland, Oregon, USA. ACM.

- [Curran et al., 2010] Curran, D.; Freuder, E.; and Jansen, T. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 981–982, Portland, Oregon, USA. ACM.
- [de A. Araújo et al., 2010] de A. Araújo, R.; de Oliveira, A. L.; and Soares, S. C. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1315–1316, Portland, Oregon, USA. ACM.
- [de Mattos Neto et al., 2010] de Mattos Neto, P. S.; Lima Junior, A. R.; and Ferreira, T. A. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1477–1478, Portland, Oregon, USA. ACM.
- [de Mendonca Neta et al., 2010] de Mendonca Neta, B. M.; Araujo, G. H. D.; Guimaraes, F. G.; and Mesquita, R. C. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 743–750, Portland, Oregon, USA. ACM.
- [De Prisco et al., 2010] De Prisco, R.; Zaccagnino, G.; and Zaccagnino, R. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 817–818, Portland, Oregon, USA. ACM.
- [Deb and Padhye, 2010] Deb, K. and Padhye, N. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 55–62, Portland, Oregon, USA. ACM.
- [Di Carlo et al., 2010] Di Carlo, S.; Sanchez, E.; Scionti, A.; Squillero, G.; Tonda, A. P.; and Falasconi, M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1329–1330, Portland, Oregon, USA. ACM.
- [Doerr and Johannsen, 2010] Doerr, B. and Johannsen, D. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 759–766, Portland, Oregon, USA. ACM.

- [Doğan et al., 2010] Doğan, E.; Erdal, F.; and Saka, M. P. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 289–290, Portland, Oregon, USA. ACM.
- [Downey et al., 2010] Downey, C.; Zhang, M.; and Browne, W. N. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 885–892, Portland, Oregon, USA. ACM.
- [Downing, 2010] Downing, K. L. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 555–562, Portland, Oregon, USA. ACM.
- [Ducatelle et al., 2010] Ducatelle, F.; Di Caro, G. A.; and Gambardella, L. M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 87–94, Portland, Oregon, USA. ACM.
- [Dumitrescu et al., 2010] Dumitrescu, D.; Lung, R. I.; Nagy, R.; Zaharie, D.; and Bartha, A. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 539–540, Portland, Oregon, USA. ACM.
- [Esparcia-Alcazár et al., 2010] Esparcia-Alcazár, A. I.; Martínez-García, A.; Mora, A. M.; Merelo, J. J.; and García-Sánchez, P. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 829–830, Portland, Oregon, USA. ACM.
- [Evins et al., 2010] Evins, R.; Pointer, P.; and Vaidyanathan, R. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1327–1328, Portland, Oregon, USA. ACM.
- [Farinaccio et al., 2010] Farinaccio, A.; Vanneschi, L.; Giacobini, M.; Mauri, G.; and Provero, P. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 163–170, Portland, Oregon, USA. ACM.

- [Fast et al., 2010] Fast, E.; Le Gouse, C.; Forrest, S.; and Weimer, W. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 965–972, Portland, Oregon, USA. ACM.
- [Fernando, 2010] Fernando, C. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 153–154, Portland, Oregon, USA. ACM.
- [Folino and Pizzuti, 2010] Folino, F. and Pizzuti, C. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 535–536, Portland, Oregon, USA. ACM.
- [Foster and Somayaji, 2010] Foster, B. and Somayaji, A. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 957–964, Portland, Oregon, USA. ACM.
- [Franco et al., 2010] Franco, M. A.; Krasnogor, N.; and Bacardit, J. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1039–1046, Portland, Oregon, USA. ACM.
- [Gajda and Sekanina, 2010] Gajda, Z. and Sekanina, L. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 983–984, Portland, Oregon, USA. ACM.
- [Galan and Mengshoel, 2010] Galan, S. F. and Mengshoel, O. J. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 775–782, Portland, Oregon, USA. ACM.
- [Galván-López et al., 2010] Galván-López, E.; McDermott, J.; O'Neill, M.; and Brabazon, A. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 901–908, Portland, Oregon, USA. ACM.
- [García-Martínez et al., 2010] García-Martínez, C.; Lima, C.; Twycross, J.; Krasnogor, N.; and Lozano, M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 187–194, Portland, Oregon, USA. ACM.
- [Garrett et al., 2010] Garrett, A.; Chen, Z.; and Smith, D. E. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1163–1170, Portland, Oregon, USA. ACM.
- [Glasmachers et al., 2010] Glasmachers, T.; Schaul, T.; Yi, S.; Wierstra, D.; and Schmidhuber, J. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 393–400, Portland, Oregon, USA. ACM.
- [Goldsby et al., 2010] Goldsby, H. J.; Knoester, D. B.; and Ofria, C. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 135–142, Portland, Oregon, USA. ACM.
- [Gong et al., 2010] Gong, W.; Álvaro Fialho; and Cai, Z. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 409–416, Portland, Oregon, USA. ACM.
- [Gonzales et al., 2010] Gonzales, E.; Mabu, S.; Taboada, K.; Hirasawa, K.; and Shimada, K. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 419–420, Portland, Oregon, USA. ACM.
- [Hall et al., 2010] Hall, M.; McMinn, P.; and Walkinshaw, N. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1381–1388, Portland, Oregon, USA. ACM.
- [Harding et al., 2010] Harding, S.; Miller, J. F.; and Banzhaf, W. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 579–586, Portland, Oregon, USA. ACM.
- [Hauschild and Pelikan, 2010] Hauschild, M. W. and Pelikan, M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 579–586, Portland, Oregon, USA. ACM.

- J.; Vanneschi, L.; and Witt, C., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 713–720, Portland, Oregon, USA. ACM.
- [Herrera-Ortiz et al., 2010] Herrera-Ortiz, J. A.; Oliver-Morales, C.; and Rodríguez-Vázquez, K. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 835–836, Portland, Oregon, USA. ACM.
- [Hildebrandt et al., 2010] Hildebrandt, T.; Heger, J.; and Scholz-Reiter, B. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 257–264, Portland, Oregon, USA. ACM.
- [Hiller and Lipson, 2010] Hiller, J. D. and Lipson, H. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 151–152, Portland, Oregon, USA. ACM.
- [Holzinger et al., 2010] Holzinger, E. R.; Buchanan, C. C.; Dudek, S. M.; Torstenson, E. C.; Turner, S. D.; and Ritchie, M. D. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 203–210, Portland, Oregon, USA. ACM.
- [Horoba and Sudholt, 2010] Horoba, C. and Sudholt, D. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1465–1472, Portland, Oregon, USA. ACM.
- [hui Zhong and Zhang, 2010] hui Zhong, J. and Zhang, J. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 319–326, Portland, Oregon, USA. ACM.
- [Hutzschenreuter et al., 2010] Hutzschenreuter, A. K.; Bosman, P. A.; and La Poutre, H. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 541–542, Portland, Oregon, USA. ACM.
- [II and Tumer, 2010] II, J. F. S. and Tumer, K. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1131–1138, Portland, Oregon, USA. ACM.
- [Inden et al., 2010] Inden, B.; Jin, Y.; Haschke, R.; and Ritter, H. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 645–646, Portland, Oregon, USA. ACM.
- [Iordache, 2010] Iordache, S. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 225–232, Portland, Oregon, USA. ACM.
- [Ishibuchi et al., 2010] Ishibuchi, H.; Sakane, Y.; Tsukamoto, N.; and Nojima, Y. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 519–526, Portland, Oregon, USA. ACM.
- [Jansen and Zarges, 2010] Jansen, T. and Zarges, C. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 705–712, Portland, Oregon, USA. ACM.
- [Jaros and Dvorak, 2010] Jaros, J. and Dvorak, V. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1171–1178, Portland, Oregon, USA. ACM.
- [Jensen and Cheng, 2010] Jensen, A. C. and Cheng, B. H. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1341–1348, Portland, Oregon, USA. ACM.
- [Jiang and Chen, 2010] Jiang, H. and Chen, Y. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 217–224, Portland, Oregon, USA. ACM.
- [jie Yu and Zhang, 2010] jie Yu, W. and Zhang, J. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 31–38, Portland, Oregon, USA. ACM.

- [Johannsen et al., 2010] Johannsen, D.; Kurur, P. P.; and Lengler, J. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1433–1440, Portland, Oregon, USA. ACM.
- [Johansson et al., 2010] Johansson, U.; König, R.; and Niklasson, L. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1007–1014, Portland, Oregon, USA. ACM.
- [Kamath et al., 2010] Kamath, U.; De Jong, K. A.; and Shehu, A. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 179–186, Portland, Oregon, USA. ACM.
- [Kim et al., 2010] Kim, K.; McKay, R. B.; and Moon, B.-R. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1179–1186, Portland, Oregon, USA. ACM.
- [Kimbrough et al., 2010] Kimbrough, S. O.; Kuo, A.; and Lau, H. C. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 295–296, Portland, Oregon, USA. ACM.
- [Knoester et al., 2010] Knoester, D. B.; Goldsby, H. J.; and McKinley, P. K. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 603–610, Portland, Oregon, USA. ACM.
- [Knudson and Tumer, 2010] Knudson, M. and Tumer, K. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 127–134, Portland, Oregon, USA. ACM.
- [Koos et al., 2010] Koos, S.; Mouret, J.-B.; and Doncieux, S. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 119–126, Portland, Oregon, USA. ACM.
- [Kötzing et al., 2010] Kötzing, T.; Lehre, P. K.; Neumann, F.; and Oliveto, P. S. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1393–1400, Portland, Oregon, USA. ACM.
- [Koutnik et al., 2010] Koutnik, J.; Gomez, F.; and Schmidhuber, J. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 619–626, Portland, Oregon, USA. ACM.
- [Kramer and Danielsiek, 2010] Kramer, O. and Danielsiek, H. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 503–510, Portland, Oregon, USA. ACM.
- [Kremmel et al., 2010] Kremmel, T.; Kubalik, J.; and Biffl, S. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1389–1390, Portland, Oregon, USA. ACM.
- [Kubalik et al., 2010] Kubalik, J.; Buryan, P.; and Wagner, L. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 213–214, Portland, Oregon, USA. ACM.
- [Kureichik et al., 2010] Kureichik, V. M.; Lebedev, B. K.; and Lebedev, O. B. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 821–822, Portland, Oregon, USA. ACM.
- [Lässig and Sudholt, 2010] Lässig, J. and Sudholt, D. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1105–1112, Portland, Oregon, USA. ACM.
- [Lee and Moon, 2010] Lee, S.-K. and Moon, B.-R. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1219–1226, Portland, Oregon, USA. ACM.
- [Lehman and Stanley, 2010] Lehman, J. and Stanley, K. O. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 103–110, Portland, Oregon, USA. ACM.
- [Lehre and Witt, 2010] Lehre, P. K. and Witt, C. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1441–1448, Portland, Oregon, USA. ACM.
- [Lemmens and Tuyls, 2010] Lemmens, N. and Tuyls, K. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 47–54, Portland, Oregon, USA. ACM.
- [Leung and Zhang, 2010] Leung, K. M. and Zhang, X. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 265–272, Portland, Oregon, USA. ACM.
- [Li et al., 2010] Li, M.; Zheng, J.; Shen, R.; Li, K.; and Yuan, Q. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 463–470, Portland, Oregon, USA. ACM.
- [Lichodziejewski and Heywood, 2010] Lichodziejewski, P. and Heywood, M. I. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 853–860, Portland, Oregon, USA. ACM.
- [Lien et al., 2010] Lien, T.-C.; Yu, T.-L.; and You, Y.-S. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 697–704, Portland, Oregon, USA. ACM.
- [Lin et al., 2010] Lin, Y.; min Hu, X.; and Zhang, J. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 23–30, Portland, Oregon, USA. ACM.
- [Liśkiewicz and Textor, 2010] Liśkiewicz, M. and Textor, J. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1047–1054, Portland, Oregon, USA. ACM.

- [Liu et al., 2010] Liu, R.; Zhang, W.; Jiao, L.; Liu, F.; and Ma, J. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 423–430, Portland, Oregon, USA. ACM.
- [Lo et al., 2010] Lo, L.-Y.; Chan, T.-M.; Lee, K.-H.; and Leung, K.-S. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 171–178, Portland, Oregon, USA. ACM.
- [Lichtfeld and Ciarallo, 2010] Lichtfeld, D. F. and Ciarallo, F. W. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 431–438, Portland, Oregon, USA. ACM.
- [Lode et al., 2010] Lode, C.; Richter, U.; and Schmeck, H. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1015–1022, Portland, Oregon, USA. ACM.
- [López-Camacho et al., 2010] López-Camacho, E.; Terashima-Marín, H.; Ross, P.; and Valenzuela-Rendón, M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 297–298, Portland, Oregon, USA. ACM.
- [Lopez-Ibanez and Stuetzle, 2010] Lopez-Ibanez, M. and Stuetzle, T. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 71–78, Portland, Oregon, USA. ACM.
- [Loshchilov et al., 2010] Loshchilov, I.; Schoenauer, M.; and Sebag, M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 471–478, Portland, Oregon, USA. ACM.
- [Luong et al., 2010] Luong, H. N.; Nguyen, H. T.; and Ahn, C. W. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 335–342, Portland, Oregon, USA. ACM.

- [Luque and Alba, 2010] Luque, G. and Alba, E. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1083–1088, Portland, Oregon, USA. ACM.
- [Ma and Simon, 2010] Ma, H. and Simon, D. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 417–418, Portland, Oregon, USA. ACM.
- [Macià et al., 2010] Macià, N.; Orriols-Puig, A.; and Bernadó-Mansilla, E. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1055–1062, Portland, Oregon, USA. ACM.
- [Manning, 2010] Manning, E. P. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 999–1006, Portland, Oregon, USA. ACM.
- [Manzoni et al., 2010] Manzoni, L.; Vanneschi, L.; and Mauri, G. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1473–1474, Portland, Oregon, USA. ACM.
- [Martí et al., 2010] Martí, L.; García, J.; Berlanga, A.; and Molina, J. M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 545–546, Portland, Oregon, USA. ACM.
- [Mayfield and Penstein-Rosé, 2010] Mayfield, E. and Penstein-Rosé, C. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1299–1306, Portland, Oregon, USA. ACM.
- [McMullin and Soule, 2010] McMullin, M. and Soule, T. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 987–988, Portland, Oregon, USA. ACM.
- [Meekhof and Soule, 2010] Meekhof, T. and Soule, T. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 833–834, Portland, Oregon, USA. ACM.
- [Meiguins et al., 2010] Meiguins, A. S.; Freitas, A. A.; Lima, R. C.; Junior, S. F.; and Meiguins, B. S. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1069–1070, Portland, Oregon, USA. ACM.
- [Melkozerov and Beyer, 2010] Melkozerov, A. and Beyer, H.-G. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 369–376, Portland, Oregon, USA. ACM.
- [Merelo et al., 2010] Merelo, J. J.; Mora, A. M.; and Runarsson, T. P. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 291–292, Portland, Oregon, USA. ACM.
- [Mohammed et al., 2010] Mohammed, A. W.; Zhang, M.; and Browne, W. N. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 83–84, Portland, Oregon, USA. ACM.
- [Momm and Easson, 2010] Momm, H. G. and Easson, G. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 973–974, Portland, Oregon, USA. ACM.
- [Montero et al., 2010] Montero, E.; Riff, M.-C.; and Neveu, B. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 299–300, Portland, Oregon, USA. ACM.
- [Moriguchi and Honiden, 2010] Moriguchi, H. and Honiden, S. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 611–618, Portland, Oregon, USA. ACM.
- [Mosnier et al., 2010] Mosnier, D.; Gillot, F.; Ducloux, A.; and Ichchou, M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1317–1318, Portland, Oregon, USA. ACM.
- [Mouret et al., 2010] Mouret, J.-B.; Doncieux, S.; and Girard, B. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 587–594, Portland, Oregon, USA. ACM.
- [Myburgh and Deb, 2010] Myburgh, C. and Deb, K. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1155–1162, Portland, Oregon, USA. ACM.
- [Nadi et al., 2010] Nadi, F.; Khader, A. T.; and Al-Betar, M. A. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 819–820, Portland, Oregon, USA. ACM.
- [Neumann et al., 2010] Neumann, F.; Sudholt, D.; and Witt, C. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 63–70, Portland, Oregon, USA. ACM.
- [Nguyen et al., 2010] Nguyen, H. T.; Luong, H. N.; and Ahn, C. W. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 343–350, Portland, Oregon, USA. ACM.
- [Nikanjam et al., 2010] Nikanjam, A.; Sharifi, H.; Helmi, B. H.; and Rahmani, A. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 367–368, Portland, Oregon, USA. ACM.
- [Orriols-Puig et al., 2010] Orriols-Puig, A.; Llorà, X.; and Goldberg, D. E. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1023–1030, Portland, Oregon, USA. ACM.
- [Ortegon-Cano et al., 2010] Ortegon-Cano, P.; Hartasanchez, D. A.; and Stephens, C. R. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 831–832, Portland, Oregon, USA. ACM.

- [Ovrieu and Simon, 2010] Ovrieu, M. and Simon, D. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1235–1242, Portland, Oregon, USA. ACM.
- [Padhye and Deb, 2010] Padhye, N. and Deb, K. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1259–1266, Portland, Oregon, USA. ACM.
- [Pedersen and Butz, 2010] Pedersen, G. K. and Butz, M. V. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1251–1258, Portland, Oregon, USA. ACM.
- [Pelikan, 2010] Pelikan, M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 665–672, Portland, Oregon, USA. ACM.
- [Pennachin et al., 2010] Pennachin, C. L.; Looks, M.; and de Vasconcelos, J. A. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 917–924, Portland, Oregon, USA. ACM.
- [Pilat and Jacob, 2010] Pilat, M. L. and Jacob, C. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 95–102, Portland, Oregon, USA. ACM.
- [Preuss et al., 2010] Preuss, M.; Rudolph, G.; and Wessing, S. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 401–408, Portland, Oregon, USA. ACM.
- [Radetic and Pelikan, 2010] Radetic, E. and Pelikan, M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 303–310, Portland, Oregon, USA. ACM.
- [Rajagopalan et al., 2010] Rajagopalan, P.; Rawal, A.; and Miikkulainen, R. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1073–1074, Portland, Oregon, USA. ACM.
- [Reehuis and Bäck, 2010] Reehuis, E. and Bäck, T. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1187–1194, Portland, Oregon, USA. ACM.
- [Ren and Feng, 2010] Ren, Z. and Feng, Z. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 281–288, Portland, Oregon, USA. ACM.
- [Risi et al., 2010] Risi, S.; Lehman, J.; and Stanley, K. O. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 563–570, Portland, Oregon, USA. ACM.
- [Roychoudhury et al., 2010] Roychoudhury, S.; Das, S.; Scoglio, C.; Das, S.; Panigrahi, B. K.; and Pattnaik, S. S. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1325–1326, Portland, Oregon, USA. ACM.
- [Salichon and Tumer, 2010] Salichon, M. and Tumer, K. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1123–1130, Portland, Oregon, USA. ACM.
- [Salim et al., 2010] Salim, S.; Javed, M.; and Akbar, A. H. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 79–80, Portland, Oregon, USA. ACM.
- [Salinas-Gutiérrez et al., 2010] Salinas-Gutiérrez, R.; Hernández-Aguirre, A.; and Villa-Diharce, E. R. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 359–366, Portland, Oregon, USA. ACM.
- [Sanyal et al., 2010] Sanyal, S.; S, R.; and Biswas, S. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1417–1424, Portland, Oregon, USA. ACM.
- [Sato et al., 2010] Sato, M.; Sato, Y.; and Namiki, M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1321–1322, Portland, Oregon, USA. ACM.
- [Schmidt and Lipson, 2010] Schmidt, M. D. and Lipson, H. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 543–544, Portland, Oregon, USA. ACM.
- [Schrump and Miikkulainen, 2010] Schrump, J. and Miikkulainen, R. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 439–446, Portland, Oregon, USA. ACM.
- [Sharma and Collet, 2010] Sharma, D. and Collet, P. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 479–486, Portland, Oregon, USA. ACM.
- [Shimada and Hirasawa, 2010] Shimada, K. and Hirasawa, K. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1115–1122, Portland, Oregon, USA. ACM.
- [Shir et al., 2010] Shir, O. M.; Roslund, J.; and Rabitz, H. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 421–422, Portland, Oregon, USA. ACM.
- [Sierra and Ponsoda, 2010] Sierra, A. and Ponsoda, V. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1307–1308, Portland, Oregon, USA. ACM.
- [Sinnott-Armstrong et al., 2010] Sinnott-Armstrong, N. A.; Greene, C. S.; and Moore, J. H. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 215–216, Portland, Oregon, USA. ACM.

- [Snel and Whiteson, 2010] Snel, M. and Whiteson, S. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1031–1038, Portland, Oregon, USA. ACM.
- [Soule and Heckendorn, 2010] Soule, T. and Heckendorn, R. B. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 647–648, Portland, Oregon, USA. ACM.
- [Steiner et al., 2010] Steiner, T.; Jin, Y.; and Sendhoff, B. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 571–578, Portland, Oregon, USA. ACM.
- [Steitz and Rothlauf, 2010] Steitz, W. and Rothlauf, F. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 301–302, Portland, Oregon, USA. ACM.
- [Stonedahl and Stonedahl, 2010] Stonedahl, F. and Stonedahl, S. H. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 273–280, Portland, Oregon, USA. ACM.
- [Stracquadanio et al., 2010] Stracquadanio, G.; Drago, C.; Romano, V.; and Nicosia, G. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1243–1250, Portland, Oregon, USA. ACM.
- [Su et al., 2010] Su, C.; Gao, Y.; and Cao, C. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1065–1066, Portland, Oregon, USA. ACM.
- [Sugawara et al., 2010] Sugawara, T.; Fukuda, K.; Hirotsu, T.; and Kurihara, S. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1311–1312, Portland, Oregon, USA. ACM.
- [Tanji and Iba, 2010] Tanji, M. and Iba, H. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1275–1282, Portland, Oregon, USA. ACM.
- [Ter-Sarkisov et al., 2010] Ter-Sarkisov, A.; Marsland, S. R.; and Holland, B. R. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 815–816, Portland, Oregon, USA. ACM.
- [Toledo-Suárez, 2010] Toledo-Suárez, C. D. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 991–998, Portland, Oregon, USA. ACM.
- [Trefzer et al., 2010] Trefzer, M. A.; Kuyucu, T.; Miller, J. F.; and Tyrrell, A. M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 595–602, Portland, Oregon, USA. ACM.
- [Trujillo et al., 2010] Trujillo, L.; Legrand, P.; and Lévy-Véhel, J. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 861–868, Portland, Oregon, USA. ACM.
- [Tsai et al., 2010] Tsai, C.-W.; Tseng, S.-P.; Chiang, M.-C.; and Yang, C.-S. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 293–294, Portland, Oregon, USA. ACM.
- [Tulshyan et al., 2010] Tulshyan, R.; Arora, R.; Deb, K.; and Dutta, J. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 689–696, Portland, Oregon, USA. ACM.
- [Tutum and Hattel, 2010] Tutum, C. C. and Hattel, J. H. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1323–1324, Portland, Oregon, USA. ACM.
- [Ulrich et al., 2010] Ulrich, T.; Bader, J.; and Zitzler, E. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 455–462, Portland, Oregon, USA. ACM.

- [Unachak and Goodman, 2010] Unachak, P. and Goodman, E. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 737–742, Portland, Oregon, USA. ACM.
- [Urbanowicz and Moore, 2010] Urbanowicz, R. J. and Moore, J. H. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 195–202, Portland, Oregon, USA. ACM.
- [Uy et al., 2010] Uy, N. Q.; Hoai, N. X.; O'Neill, M.; and McKay, B. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 869–876, Portland, Oregon, USA. ACM.
- [Vafae et al., 2010] Vafae, F.; Turán, G.; and Nelson, P. C. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 721–728, Portland, Oregon, USA. ACM.
- [Valsecchi et al., 2010] Valsecchi, A.; Vanneschi, L.; and Mauri, G. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1475–1476, Portland, Oregon, USA. ACM.
- [Vanneschi et al., 2010] Vanneschi, L.; Codecasa, D.; and Mauri, G. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 15–22, Portland, Oregon, USA. ACM.
- [Veeramachaneni et al., 2010] Veeramachaneni, K.; Vladislavleva, K.; Burland, M.; Parcon, J.; and O'Reilly, U.-M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1291–1298, Portland, Oregon, USA. ACM.
- [Verbancsics and Stanley, 2010] Verbancsics, P. and Stanley, K. O. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 547–554, Portland, Oregon, USA. ACM.
- [Vladislavleva et al., 2010] Vladislavleva, K.; Veeramachaneni, K.; Burland, M.; Parcon, J.; and O'Reilly, U.-M. (2010). "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., editors, *GECCO ’10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 941–948, Portland, Oregon, USA. ACM.
- [Voß et al., 2010] Voß, T.; Hansen, N.; and Igel, C. (2010). ”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., editors, *GECCO ’10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 487–494, Portland, Oregon, USA. ACM.
- [Vrajitoru, 2010] Vrajitoru, D. (2010). ”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., editors, *GECCO ’10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1097–1104, Portland, Oregon, USA. ACM.
- [Walton et al., 2010] Walton, M.; Grewal, G.; and Darlington, G. (2010). ”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., editors, *GECCO ’10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1075–1082, Portland, Oregon, USA. ACM.
- [Wang and Tan, 2010] Wang, J. and Tan, Y. (2010). ”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., editors, *GECCO ’10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 979–980, Portland, Oregon, USA. ACM.
- [Wen et al., 2010] Wen, Y.; Xu, H.; and Yang, J. (2010). ”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., editors, *GECCO ’10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 729–736, Portland, Oregon, USA. ACM.
- [Whitley et al., 2010] Whitley, L. D.; Chicano, F.; Alba, E.; and Luna, F. (2010). ”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., editors, *GECCO ’10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1409–1416, Portland, Oregon, USA. ACM.
- [Wilkerson and Tauritz, 2010] Wilkerson, J. L. and Tauritz, D. (2010). ”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., editors, *GECCO ’10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1391–1392, Portland, Oregon, USA. ACM.
- [Wilson and Banzhaf, 2010] Wilson, G. and Banzhaf, W. (2010). ”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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1139–1146, Portland, Oregon, USA. ACM.
- [Windisch, 2010] Windisch, A. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1349–1356, Portland, Oregon, USA. ACM.
- [Wong et al., 2010] Wong, K.-C.; Leung, K.-S.; and Wong, M.-H. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 155–162, Portland, Oregon, USA. ACM.
- [Wu and Banzhaf, 2010] Wu, S. X. and Banzhaf, W. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 233–240, Portland, Oregon, USA. ACM.
- [Xu et al., 2010] Xu, Z.; Cohen, M. B.; and Rothermel, G. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1365–1372, Portland, Oregon, USA. ACM.
- [Yang et al., 2010] Yang, J.; Xu, H.; Cai, Y.; and Jia, P. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 327–334, Portland, Oregon, USA. ACM.
- [Yehoshua et al., 2010] Yehoshua, R.; Avigal, M.; and Unger, R. (2010). "Analysis of the effects of lifetime learning on population fitness using voese 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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 681–688, Portland, Oregon, USA. ACM.
- [You et al., 2010] You, Y.-S.; Yu, T.-L.; and Lien, T.-C. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1319–1320, Portland, Oregon, USA. ACM.
- [Zafra and Ventura, 2010] Zafra, A. and Ventura, S. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 909–916, Portland, Oregon, USA. ACM.

- [Zapotecas Martínez and Coello Coello, 2010] Zapotecas Martínez, S. and Coello Coello, C. A. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 537–538, Portland, Oregon, USA. ACM.
- [Zhan and Zhang, 2010] Zhan, Z.-H. and Zhang, J. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 39–46, Portland, Oregon, USA. ACM.
- [Zhang et al., 2010] Zhang, Y.; Alba, E.; Durillo, J. J.; Eldh, S.; and Harman, M. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1357–1364, Portland, Oregon, USA. ACM.
- [Zhou and Tan, 2010] Zhou, Y. and Tan, Y. (2010). "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., editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1–8, Portland, Oregon, USA. ACM.