

## 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 KAPFFHAMMER, 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., TWYXCROSS, 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 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 POUTRÉ, 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 LENGELER, 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.
- [LICHODZIJEWSKI and HEYWOOD, 2010] LICHODZIJEWSKI, 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.
- [LOCHTEFELD and CIARALLO, 2010] LOCHTEFELD, 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.
- [MOHEMMED *et al.*, 2010] MOHEMMED, 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.
- [OVREIU and SIMON, 2010] OVREIU, 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., SGOGLIO, C., DAS, S., PANIGRAHI, B. K., and PATNAIK, 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 VILLADIHARCE, 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.
- [SCHRUM and MIKKULAINEN, 2010] SCHRUM, J. and MIKKULAINEN, 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 OCSST 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.
- [VAFABEE *et al.*, 2010] VAFABEE, 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.
- [VASECCHI *et al.*, 2010] VASECCHI, 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 vose model. In BRANKE, J., PELIKAN, M., ALBA, E., ARNOLD, D. V., BONGARD, J., BRABAZON, A., BRANKE, J., BUTZ, M. V., CLUNE, J., COHEN, M., DEB, K., ENGELBRECHT, A. P., KRASNOGOR, N., MILLER, J. F., O'NEILL, M., SASTRY, K., THIERENS, D., VAN HEMERT, J., VANNESCHI, L., and WITT, C., 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.