

## Список литературы

- [Abdelbar(2012)] **Abdelbar, A. M.** (2012). Is there a computational advantage to representing evaporation rate in ant colony optimization as a gaussian random variable? In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Abdou et al.(2012)Abdou, Bloch, Charlet and Spies] **Abdou, W., Bloch, C., Charlet, D. and Spies, F.** (2012). Adaptive multi-objective genetic algorithm using multi-pareto-ranking. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Agogino et al.(2012)Agogino, HolmesParker and Tumer] **Agogino, A., HolmesParker, C. and Tumer, K.** (2012). Evolving distributed resource sharing for cubesat constellations. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Ahmad et al.(2012)Ahmad, Khan, Mahmud and Miller] **Ahmad, A. M., Khan, G. M., Mahmud, S. A. and Miller, J. F.** (2012). Breast cancer detection using cartesian genetic programming evolved artificial neural networks. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Akimoto(2012)] **Akimoto, Y.** (2012). Analysis of a natural gradient algorithm on monotonic convex-quadratic-composite functions. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Alexander et al.(2012)Alexander, Thiel and Peacock] **Alexander, B., Thiel, S. and Peacock, J.** (2012). Application of evolutionary methods to 3d geoscience modelling. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth*

*international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

- [Araya et al.(2012)Araya, Pérez and Riff] **Araya, I., Pérez, L. and Riff, M. C.** (2012). Towards a population-based framework for improving stochastic local search algorithms. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Arnold and Hansen(2012)] **Arnold, D. V. and Hansen, N.** (2012). A (1+1)-cma-es for constrained optimisation. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Atwater et al.(2012)Atwater, Heywood and Zincir-Heywood] **Atwater, A., Heywood, M. I. and Zincir-Heywood, N.** (2012). Gp under streaming data constraints: a case for pareto archiving? In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Auerbach and Bongard(2012)] **Auerbach, J. E. and Bongard, J. C.** (2012). On the relationship between environmental and morphological complexity in evolved robots. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Bailey et al.(2012)Bailey, Ventresca and Ombuki-Berman] **Bailey, A., Ventresca, M. and Ombuki-Berman, B.** (2012). Automatic generation of graph models for complex networks by genetic programming. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Barros et al.(2012)Barros, Basgalupp, de Carvalho and Freitas] **Barros, R. C., Basgalupp, M. P., de Carvalho, A. C. and Freitas, A. A.** (2012). A hyper-heuristic evolutionary algorithm for automatically designing decision-tree algorithms. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz,

J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

- [Bassett et al.(2012)Bassett, Kamath and De Jong] **Bassett, J., Kamath, U. and De Jong, K.** (2012). A new methodology for the gp theory toolbox. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Baumbach et al.(2012)Baumbach, Friedrich, Kötzing, Krohmer, Müller and Pauling] **Baumbach, J., Friedrich, T., Kötzing, T., Krohmer, A., Müller, J. and Pauling, J.** (2012). Efficient algorithms for extracting biological key pathways with global constraints. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Beal et al.(2012)Beal, Mostafa, Mozeika, Axelrod, Adler, Markiewicz and Usbeck] **Beal, J., Mostafa, H., Mozeika, A., Axelrod, B., Adler, A., Markiewicz, G. and Usbeck, K.** (2012). A manifold operator representation for adaptive design. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Beck et al.(2012)Beck, de Paly, Hecht-Méndez, Bayer and Zell] **Beck, M., de Paly, M., Hecht-Méndez, J., Bayer, P. and Zell, A.** (2012). Evaluation of the performance of evolutionary algorithms for optimization of low-enthalpy geothermal heating plants. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Beyer and Hellwig(2012)] **Beyer, H.-G. and Hellwig, M.** (2012). Mutation strength control by meta-es on the sharp ridge. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Bischl et al.(2012)Bischl, Mersmann, Trautmann and Preuß] **Bischl, B., Mersmann, O., Trautmann, H. and Preuß, M.** (2012). Algorithm selection based on exploratory landscape analysis and cost-sensitive learning. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart,

- W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Bosman and Alderliesten(2012)] **Bosman, P. A. and Alderliesten, T.** (2012). Incremental gaussian model-building in multi-objective edas with an application to deformable image registration. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Boumaza and Brun(2012)] **Boumaza, A. and Brun, A.** (2012). From neighbors to global neighbors in collaborative filtering: an evolutionary optimization approach. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Branke and Elomari(2012)] **Branke, J. and Elomari, J. A.** (2012). Meta-optimization for parameter tuning with a flexible computing budget. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Bringmann and Friedrich(2012)] **Bringmann, K. and Friedrich, T.** (2012). Convergence of hypervolume-based archiving algorithms ii: competitiveness. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Brockhoff et al.(2012)Brockhoff, Wagner and Trautmann] **Brockhoff, D., Wagner, T. and Trautmann, H.** (2012). On the properties of the r2 indicator. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Brownlee et al.(2012)Brownlee, McCall and Pelikan] **Brownlee, A. E., McCall, J. A. and Pelikan, M.** (2012). Influence of selection on structure learning in markov network edas: an empirical study. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L.

- Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Candan et al.(2012)Candan, Goeffon, Lardeux and Saubion] **Candan, C., Goeffon, A., Lardeux, F. and Saubion, F.** (2012). A dynamic island model for adaptive operator selection. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Canelas et al.(2012)Canelas, Neves and Horta] **Canelas, A., Neves, R. and Horta, N.** (2012). A new sax-ga methodology applied to investment strategies optimization. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Castelli et al.(2012)Castelli, Manzoni and Vanneschi] **Castelli, M., Manzoni, L. and Vanneschi, L.** (2012). Parameter tuning of evolutionary reactions systems. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Cazenille et al.(2012)Cazenille, Bredeche, Hamann and Stradner] **Cazenille, L., Bredeche, N., Hamann, H. and Stradner, J.** (2012). Impact of neuron models and network structure on evolving modular robot neural network controllers. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Chalupa(2012)] **Chalupa, D.** (2012). On the efficiency of an order-based representation in the clique covering problem. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Chatzinikolaou and Robertson(2012)] **Chatzinikolaou, N. and Robertson, D.** (2012). The use of reputation as noise-resistant selection bias in a co-evolutionary multi-agent system. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe,

- T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Chen et al.(2012)Chen, Mazlack and Lu] **Chen, Y., Mazlack, L. and Lu, L.** (2012). Learning fuzzy cognitive maps from data by ant colony optimization. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Chicano et al.(2012)Chicano, Whitley and Alba] **Chicano, F., Whitley, D. and Alba, E.** (2012). Exact computation of the expectation curves for uniform crossover. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Choi et al.(2012)Choi, Yoon and Moon] **Choi, J., Yoon, Y. and Moon, B.-R.** (2012). An efficient genetic algorithm for subgraph isomorphism. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Chou et al.(2012)Chou, Kimbrough, Sullivan-Fedock, Woodard and Murphy] **Chou, C., Kimbrough, S., Sullivan-Fedock, J., Woodard, C. J. and Murphy, F. H.** (2012). Using interactive evolutionary computation (iec) with validated surrogate fitness functions for redistricting. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Churchill et al.(2012)Churchill, Husbands and Philippides] **Churchill, A. W., Husbands, P. and Philippides, A.** (2012). Metaheuristic approaches to tool selection optimisation. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Coles(2012)] **Coles, D.** (2012). Efficient filters for the simulated evolution of small sorting networks. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti,

- J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Collier and Wineberg(2012)] **Collier, R. and Wineberg, M.** (2012). An empirical approach to the measurement of interchromosomal distances in the genetic algorithm. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Cornforth and Lipson(2012)] **Cornforth, T. and Lipson, H.** (2012). Symbolic regression of multiple-time-scale dynamical systems. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Cussat-Blanc and Pollack(2012)] **Cussat-Blanc, S. and Pollack, J.** (2012). A cell-based developmental model to generate robot morphologies. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Daolio et al.(2012)Daolio, Verel, Ochoa and Tomassini] **Daolio, F., Verel, S., Ochoa, G. and Tomassini, M.** (2012). Local optima networks and the performance of iterated local search. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [De Lucia et al.(2012)De Lucia, Di Penta, Oliveto and Panichella] **De Lucia, A., Di Penta, M., Oliveto, R. and Panichella, A.** (2012). Estimating the evolution direction of populations to improve genetic algorithms. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [de Oliveira Barros(2012)] **de Oliveira Barros, M.** (2012). An analysis of the effects of composite objectives in multiobjective software module clustering. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby,

- R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Derbel and Derbel(2012)] **Derbel, H. and Derbel, B.** (2012). On neighborhood tree search. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Doerr et al.(2012)Doerr, Hota and Kötzing] **Doerr, B., Hota, A. and Kötzing, T.** (2012). Ants easily solve stochastic shortest path problems. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Doucette et al.(2012)Doucette, Lichodziejewski and Heywood] **Doucette, J. A., Lichodziejewski, P. and Heywood, M. I.** (2012). Hierarchical task decomposition through symbiosis in reinforcement learning. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Drchal and Snorek(2012)] **Drchal, J. and Snorek, M.** (2012). Distance measures for hypergp with fitness sharing. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Ebadi et al.(2012)Ebadi, Zhang and Browne] **Ebadi, T., Zhang, M. and Browne, W.** (2012). Xcs-based versus ucs-based feature pattern classification system. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Fernández et al.(2012)Fernández, Vico and Doursat] **Fernández, J. D., Vico, F. and Doursat, R.** (2012). Complex and diverse morphologies can develop from a minimal genomic model. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings*



- [Ferrer et al.(2012)Ferrer, Kruse, Chicano and Alba] **Ferrer, J., Kruse, P. M., Chicano, F. and Alba, E.** (2012). Evolutionary algorithm for prioritized pairwise test data generation. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Firoz et al.(2012)Firoz, Rahman and Saha] **Firoz, J. S., Rahman, M. S. and Saha, T. K.** (2012). Bee algorithms for solving dna fragment assembly problem with noisy and noiseless data. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Fitzgerald and Ryan(2012)] **Fitzgerald, J. and Ryan, C.** (2012). Exploring boundaries: optimising individual class boundaries for binary classification problem. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Franco et al.(2012)Franco, Krasnogor and Bacardit] **Franco, M. A., Krasnogor, N. and Bacardit, J.** (2012). Post-processing operators for decision lists. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Fu et al.(2012)Fu, Johnston and Zhang] **Fu, W., Johnston, M. and Zhang, M.** (2012). Genetic programming for edge detection using blocks to extract features. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Garcia-Nieto and Alba(2012)] **Garcia-Nieto, J. and Alba, E.** (2012). Why six informants is optimal in pso. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds.,

- [Garza-Fabre et al.(2012)Garza-Fabre, Toscano-Pulido and Rodriguez-Tello] **Garza-Fabre, M., Toscano-Pulido, G. and Rodriguez-Tello, E.** (2012). Locality-based multiobjectivization for the hp model of protein structure prediction. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Goldman and Tauritz(2012)] **Goldman, B. W. and Tauritz, D. R.** (2012). Linkage tree genetic algorithms: variants and analysis. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Goues et al.(2012)Goues, Wemer and Forrest] **Goues, C. L., Wemer, W. and Forrest, S.** (2012). Representations and operators for improving evolutionary software repair. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Hardey et al.(2012)Hardey, Corapcioglu, Mattis, Goadrich and Jadud] **Hardey, K., Corapcioglu, E., Mattis, M., Goadrich, M. and Jadud, M.** (2012). Exploring and evolving process-oriented control for real and virtual fire fighting robots. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Harding et al.(2012)Harding, Graziano, Leitne and Schmidhuber] **Harding, S., Graziano, V., Leitne, J. and Schmidhuber, J.** (2012). Mt-cgp: mixed type cartesian genetic programming. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Harper(2012)] **Harper, R.** (2012). Spatial co-evolution: quicker, fitter and less bloated. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings*

- [Hauschild et al.(2012)Hauschild, Bhatia and Pelikan] **Hauschild, M., Bhatia, S. and Pelikan, M.** (2012). Image segmentation using a genetic algorithm and hierarchical local search. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Hausknecht et al.(2012)Hausknecht, Khandelwal, Miikkulainen and Stone] **Hausknecht, M., Khandelwal, P., Miikkulainen, R. and Stone, P.** (2012). Hyperneat-ggp: a hyperneat-based atari general game player. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Hemberg et al.(2012)Hemberg, Veeramachaneni, McDermott, Berzan and O'Reilly] **Hemberg, E., Veeramachaneni, K., McDermott, J., Berzan, C. and O'Reilly, U.-M.** (2012). An investigation of local patterns for estimation of distribution genetic programming. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Hennes et al.(2012)Hennes, Bloembergen, Kaisers, Tuyls and Parsons] **Hennes, D., Bloembergen, D., Kaisers, M., Tuyls, K. and Parsons, S.** (2012). Evolutionary advantage of foresight in markets. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Herbawi and Weber(2012)] **Herbawi, W. M. and Weber, M.** (2012). A genetic and insertion heuristic algorithm for solving the dynamic ridematching problem with time windows. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Hernández et al.(2012)Hernández, Olague, Clemente and Dozal] **Hernández, D., Olague, G., Clemente, E. and Dozal, L.** (2012). Evolving a conspicuous point detector based on an artificial dorsal stream: Slam system. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith,

- A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Holena et al.(2012)Holena, Linke and Bajer] **Holena, M., Linke, D. and Bajer, L.** (2012). Surrogate modeling in the evolutionary optimization of catalytic materials. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Hornby and Bongard(2012)] **Hornby, G. S. and Bongard, J. C.** (2012). Accelerating human-computer collaborative search through learning comparative and predictive user models. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Hu and Raidl(2012)] **Hu, B. and Raidl, G.** (2012). An evolutionary algorithm with solution archives and bounding extension for the generalized minimum spanning tree problem. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [hui Zhong and Zhang(2012)] **hui Zhong, J. and Zhang, J.** (2012). Sde: a stochastic coding differential evolution for global optimization. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Iclanzan(2012)] **Iclanzan, D.** (2012). Higher-order linkage learning in the ecga. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Inden(2012)] **Inden, B.** (2012). Open-ended coevolution and the emergence of complex irreducible functional units in iterated number sequence games. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz,

- J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Iqbal et al.(2012)Iqbal, Browne and Zhang] **Iqbal, M., Browne, W. N. and Zhang, M.** (2012). Extracting and using building blocks of knowledge in learning classifier systems. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Ishibuchi et al.(2012)Ishibuchi, Yamane and Nojima] **Ishibuchi, H., Yamane, M. and Nojima, Y.** (2012). Effects of discrete objective functions with different granularities on the search behavior of emo algorithms. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Jansen and Zarges(2012)] **Jansen, T. and Zarges, C.** (2012). Fixed budget computations: a different perspective on run time analysis. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Jeanson and White(2012)] **Jeanson, F. and White, A.** (2012). Evolving axonal delay neural networks for robot control. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [jie Yu and Zhang(2012)] **jie Yu, W. and Zhang, J.** (2012). Adaptive differential evolution with optimization state estimation. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Joachimczak and Wróbel(2012)] **Joachimczak, M. and Wróbel, B.** (2012). Co-evolution of morphology and control of soft-bodied multicellular animats. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

- [Karim and Ryan(2012)] **Karim, M. R. and Ryan, C.** (2012). Sensitive ants are sensible ants. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Kattan and Arif(2012)] **Kattan, A. and Arif, M.** (2012). Pso based on surrogate modeling as meta-search to optimise evolutionary algorithms parameters. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Kneissler et al.(2012)Kneissler, Stalph, Drugowitsch and Butz] **Kneissler, J., Stalph, P. O., Drugowitsch, J. and Butz, M. V.** (2012). Filtering sensory information with xcsf: improving learning robustness and control performance. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Koetzing et al.(2012)Koetzing, Sutton, Neumann and O'Reilly] **Koetzing, T., Sutton, A. M., Neumann, F. and O'Reilly, U.-M.** (2012). The max problem revisited: the importance of mutation in genetic programming. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Kowaliw and Banzhaf(2012)] **Kowaliw, T. and Banzhaf, W.** (2012). The unconstrained automated generation of cell image features for medical diagnosis. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Krawiec(2012)] **Krawiec, K.** (2012). On relationships between semantic diversity, complexity and modularity of programming tasks. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Krupa et al.(2012)Krupa, Chatterjee, Eldridge, Rizzo and Eppstein] **Krupa, J. S., Chatterjee, S., Eldridge, E., Rizzo, D. M. and Eppstein, M. J.** (2012). Evolutionary feature selection for

classification: a plug-in hybrid vehicle adoption application. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

[Landa et al.(2012)Landa, Rojas and Toscano-Pulido] **Landa, R., Rojas, Y. and Toscano-Pulido, G.** (2012). An approach for estimating separability and its application on high dimensional optimization. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

[Lee and Yu(2012)] **Lee, H. and Yu, T.-L.** (2012). Off-line building block identification: detecting building blocks directly from fitness without genetic algorithms. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

[Levesque et al.(2012)Levesque, Durand, Gagne and Sabourin] **Levesque, J.-C., Durand, A., Gagne, C. and Sabourin, R.** (2012). Multi-objective evolutionary optimization for generating ensembles of classifiers in the roc space. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

[Lim and Bentley(2012)] **Lim, S. L. and Bentley, P. J.** (2012). How to be a successful app developer: lessons from the simulation of an app ecosystem. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

[Loscalzo et al.(2012)Loscalzo, Wright, Acunto and Yu] **Loscalzo, S., Wright, R., Acunto, K. and Yu, L.** (2012). Sample aware embedded feature selection for reinforcement learning. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

- [Loshchilov et al.(2012)Loshchilov, Schoenauer and Sebag] **Loshchilov, I., Schoenauer, M. and Sebag, M.** (2012). Self-adaptive surrogate-assisted covariance matrix adaptation evolution strategy. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Lourengo and Pereira(2012)] **Lourengo, N. and Pereira, F. B.** (2012). Dacco: a discrete ant colony algorithm to cluster geometry optimization. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Ly et al.(2012)Ly, Saxena and Lipson] **Ly, D. L., Saxena, A. and Lipson, H.** (2012). Co-evolutionary predictors for kinematic pose inference from rgbd images. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Machado and Pereira(2012)] **Machado, P. and Pereira, L.** (2012). Photogrowth: non-photorealistic renderings through ant paintings. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Macharet et al.(2012)Macharet, Neto, Fiuza da Camara Neto and Campos] **Macharet, D. G., Neto, A. A., Fiuza da Camara Neto, V. and Campos, M. M.** (2012). An evolutionary approach for the dubins' traveling salesman problem with neighborhoods. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Marco et al.(2012)Marco, Shankland and Cairns] **Marco, D., Shankland, C. and Cairns, D.** (2012). Evolving bio-pepa process algebra models using genetic programming. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.



- [Martins et al.(2012)Martins, Lourenço and Horta] **Martins, R., Lourenço, N. and Horta, N.** (2012). Laygen ii: automatic analog ics layout generator based on a template approach. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Marzukhi et al.(2012)Marzukhi, Browne and Zhang] **Marzukhi, S., Browne, W. N. and Zhang, M.** (2012). Two-cornered learning classifier systems for pattern generation and classification. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [McCarney et al.(2012)McCarney, Houghten and Ross] **McCarney, D. E., Houghten, S. and Ross, B. J.** (2012). Evolutionary approaches to the generation of optimal error correcting codes. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [McDermott et al.(2012)McDermott, White, Luke, Manzoni, Castelli, Vanneschi, Jaskowski, Krawiec, Harper, De Jong and McDermott] **McDermott, J., White, D. R., Luke, S., Manzoni, L., Castelli, M., Vanneschi, L., Jaskowski, W., Krawiec, K., Harper, R., De Jong, K. and O'Reilly, U.-M.** (2012). Genetic programming needs better benchmarks. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Medland and Otero(2012)] **Medland, M. and Otero, F.** (2012). A study of different quality evaluation functions in the cant-miner(pb) classification algorithm. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Mendoza et al.(2012)Mendoza, Lopes and Bazzan] **Mendoza, M. R., Lopes, F. M. and Bazzan, A. L. C.** (2012). Reverse engineering of grns: an evolutionary approach based on the tsallis entropy. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds.,

- [Meng and Guo(2012)] **Meng, Y. and Guo, H.** (2012). Evolving network motifs based morphogenetic approach for self-organizing robotic swarms. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Minku et al.(2012)Minku, Sudholt and Yao] **Minku, L. L., Sudholt, D. and Yao, X.** (2012). Evolutionary algorithms for the project scheduling problem: runtime analysis and improved design. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Moore and McKinley(2012)] **Moore, J. M. and McKinley, P. K.** (2012). Evolving flexible joint morphologies. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Moraglio and Sudholt(2012)] **Moraglio, A. and Sudholt, D.** (2012). Runtime analysis of convex evolutionary search. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Moreno-Scott et al.(2012)Moreno-Scott, Ortíz-Bayliss, Terashima-Marín and Conant-Pablos] **Moreno-Scott, J. H., Ortíz-Bayliss, J. C., Terashima-Marín, H. and Conant-Pablos, S. E.** (2012). Challenging heuristics: evolving binary constraint satisfaction problems. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Moriguchi and Honiden(2012)] **Moriguchi, H. and Honiden, S.** (2012). Cma-tweann: efficient optimization of neural networks via self-adaptation and seamless augmentation. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings*

- [Munoz-Zavala and Hernandez-Ramos(2012)] **Munoz-Zavala, A. E. and Hernandez-Ramos, E. J.** (2012). Optimal cyclic replacement policy in mss maintenance via binomial-pso. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Nagy et al.(2012)Nagy, Suciu and Dumitrescu] **Nagy, R., Suciu, M. A. and Dumitrescu, D.** (2012). Lorenz equilibrium: equitability in non-cooperative games. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Nascimento et al.(2012)Nascimento, Toledo and Carvalho] **Nascimento, M., Toledo, F. and Carvalho, A.** (2012). A hybrid heuristic for the k-medoids clustering problem. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Nebel et al.(2012)Nebel, Richter and Weicker] **Nebel, P., Richter, G. and Weicker, K.** (2012). Multi-container loading with non-convex 3d shapes using a ga/ts hybrid. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Neumann(2012)] **Neumann, F.** (2012). Computational complexity analysis of multi-objective genetic programming. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Oliveto and Witt(2012)] **Oliveto, P. S. and Witt, C.** (2012). On the analysis of the simple genetic algorithm. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds.,

- [Ortiz-Bayliss et al.(2012)Ortiz-Bayliss, Terashima-Marín, Conant-Pablos, Özcan and Parkes] **Ortiz-Bayliss, J. C., Terashima-Marín, H., Conant-Pablos, S. E., Özcan, E. and Parkes, A. J.** (2012). Improving the performance of vector hyper-heuristics through local search. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Pelikan and Hauschild(2012)] **Pelikan, M. and Hauschild, M. W.** (2012). Distance-based bias in model-directed optimization of additively decomposable problems. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Phan et al.(2012)Phan, Suzuki and Hayashi] **Phan, D. H., Suzuki, J. and Hayashi, I.** (2012). Leveraging indicator-based ensemble selection in evolutionary multiobjective optimization algorithms. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Phong et al.(2012)Phong, Hoai, McKay, Siriteanu, Uy and Park] **Phong, D. N., Hoai, N. X., McKay, R. I., Siriteanu, C., Uy, N. Q. and Park, N.** (2012). Evolving the best known approximation to the q function. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Piperagkas et al.(2012)Piperagkas, Georgoulas, Parsopoulos, Stylios and Likas] **Piperagkas, G. S., Georgoulas, G., Parsopoulos, K. E., Stylios, C. D. and Likas, A. C.** (2012). Integrating particle swarm optimization with reinforcement learning in noisy problems. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Pizzuti and Rombo(2012)] **Pizzuti, C. and Rombo, S.** (2012). Experimental evaluation of topological-based fitness functions to detect complexes in ppi networks. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich,

- G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Qin et al.(2012)Qin, Raimondo, Forbes and Ong] **Qin, A. K., Raimondo, F., Forbes, F. and Ong, Y. S.** (2012). An improved cuda-based implementation of differential evolution on gpu. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Richards et al.(2012)Richards, Dunn and Amos] **Richards, D., Dunn, N. and Amos, M.** (2012). An evo-devo approach to architectural design. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Rojas-Galeano and Rodriguez(2012)] **Rojas-Galeano, S. and Rodriguez, N.** (2012). A memory efficient and continuous-valued compact eda for large scale problems. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Rotaru and Brudaru(2012)] **Rotaru, C. and Brudaru, O.** (2012). Dynamic segregative genetic algorithm for optimizing the variable ordering of robdds. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Rowe and Sudholt(2012)] **Rowe, J. E. and Sudholt, D.** (2012). The choice of the offspring population size in the (1,lambda) ea. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Santana et al.(2012)Santana, Bonnet, Legény and Lécuyer] **Santana, R., Bonnet, L., Legény, J. and Lécuyer, A.** (2012). Introducing the use of model-based evolutionary algorithms for eeg-based motor imagery classification. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith,

A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

[Sarasola and Alba(2012)] **Sarasola, B. and Alba, E.** (2012). How long should we run in dynamic optimization? In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

[Sayama(2012)] **Sayama, H.** (2012). Morphologies of self-organizing swarms in 3d swarm chemistry. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

[Schaul(2012)] **Schaul, T.** (2012). Natural evolution strategies converge on sphere functions. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

[Shao et al.(2012)Shao, Liu, Zhou, Zhan, Liu, Chu and Chen] **Shao, S., Liu, X., Zhou, M., Zhan, J., Liu, X., Chu, Y. and Chen, H.** (2012). A gpu-based implementation of an enhanced gep algorithm. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

[Simoes and Costa(2012)] **Simoes, A. and Costa, E.** (2012). Enhancing the virtual loser genetic algorithm for dynamic environments. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

[Smith and Hussain(2012)] **Smith, R. E. and Hussain, M. S.** (2012). Hybrid metaheuristic particle filters for stochastic volatility estimation. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

[Soares et al.(2012)Soares, Antunes and Araújo] **Soares, S., Antunes, C. and Araújo, R.** (2012). A genetic algorithm for designing neural network ensembles. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

[Solomon et al.(2012)Solomon, Soule and Heckendorn] **Solomon, M., Soule, T. and Heckendorn, R. B.** (2012). A comparison of a communication strategies in cooperative learning. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

[Song and Li(2012)] **Song, B. and Li, V.** (2012). A hybridization between memetic algorithm and semidefinite relaxation for the max-cut problem. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

[Soule et al.(2012)Soule, Auger, Moore, Pelta, Solnon, Preuss, Dorin, Ong, Blum, Silva, Neumann, Yu, Ekart, Browne, K] **Soule, T., Auger, A., Moore, J., Pelta, D., Solnon, C., Preuss, M., Dorin, A., Ong, Y.-S., Blum, C., Silva, D. L., Neumann, F., Yu, T., Ekart, A., Browne, W., Kovacs, T., Wong, M.-L., Pizzuti, C., Rowe, J., Friedrich, T., Squillero, G., Bredeche, N., Smith, S., Motsinger-Rei, A., Lozano, J., Pelikan, M., Meyer-Nienber, S., Igel, C., Hornby, G., Doursat, R., Gustafson, S., Olague, G., Yoo, S., Clark, J., Ochoa, G., Pappa, G., Lobo, F., Tauritz, D., Branke, J. and Deb, K., eds.** (2012). *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA.

[Spector et al.(2012)Spector, Harrington and Helmuth] **Spector, L., Harrington, K. and Helmuth, T.** (2012). Tag-based modularity in tree-based genetic programming. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

[Stalph and Butz(2012)] **Stalph, P. O. and Butz, M. V.** (2012). Guided evolution in xcsf. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

- [Stonedahl and Stonedahl(2012)] **Stonedahl, F. and Stonedahl, S.** (2012). Darwinian rivers: evolving stream topographies to match hyporheic residence time distributions. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Sudholt(2012)] **Sudholt, D.** (2012). Crossover speeds up building-block assembly. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Sutton et al.(2012)Sutton, Day and Neumann] **Sutton, A. M., Day, J. and Neumann, F.** (2012). A parameterized runtime analysis of evolutionary algorithms for max-2-sat. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Swafford et al.(2012)Swafford, Nicolau, Hemberg, O'Neill and Brabazon] **Swafford, J., Nicolau, M., Hemberg, E., O'Neill, M. and Brabazon, A.** (2012). Comparing methods for module identification in grammatical evolution. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Tanev et al.(2012)Tanev, Kuyucu and Shimohara] **Tanev, I., Kuyucu, T. and Shimohara, K.** (2012). On the cumulative effect of bloat and genetic transposition on the efficiency of incremental evolution of snake-like robot. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Tansey et al.(2012)Tansey, Feasley and Miikkulainen] **Tansey, W., Feasley, E. and Miikkulainen, R.** (2012). Accelerating evolution via egalitarian social learning. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.



- [Thierens and Bosman(2012)] **Thierens, D. and Bosman, P.** (2012). Predetermined versus learned linkage models. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [tian Xu and Zhang(2012)] **tian Xu, R. and Zhang, J.** (2012). Estimating markov switching model using differential evolution algorithm in prospective infectious disease outbreak detection. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Urbanowicz et al.(2012)Urbanowicz, Granizo-Mackenzie and Moore] **Urbanowicz, R., Granizo-Mackenzie, A. and Moore, J.** (2012). Instance-linked attribute tracking and feedback for michigan-style supervised learning classifier systems. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Veerapen et al.(2012)Veerapen, Maturana and Saubion] **Veerapen, N., Maturana, J. and Saubion, F.** (2012). An exploration-exploitation compromise-based adaptive operator selection for local search. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Vellasques et al.(2012)Vellasques, Sabourin and Granger] **Vellasques, E., Sabourin, R. and Granger, E.** (2012). Gaussian mixture modeling for dynamic particle swarm optimization of recurrent problems. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Vendramin et al.(2012)Vendramin, Munaretto, de Biase da Silva Delgado and Viana] **Vendramin, A. C. B. K., Munaretto, A., de Biase da Silva Delgado, M. R. and Viana, A. C.** (2012). Cgrant: a swarm intelligence-based routing protocol for delay tolerant networks. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.

- [Vilela Neto et al.(2012)Vilela Neto, Pimentel, Pacheco and Ênio Frota da Silveira] **Vilela Neto, O. P., Pimentel, A. S., Pacheco, M. A. C. and Ênio Frota da Silveira** (2012). Evolutionary algorithms applied to elucidate ionic water cluster structure formation. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Villalobos and Coello(2012)] **Villalobos, C. A. R. and Coello, C. A. C.** (2012). A new multi-objective evolutionary algorithm based on a performance assessment indicator. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Wang et al.(2012)Wang, Purshouse and Fleming] **Wang, R., Purshouse, R. and Fleming, P.** (2012). Local preference-inspired co-evolutionary algorithms. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Weise et al.(2012)Weise, Devert and Tang] **Weise, T., Devert, A. and Tang, K.** (2012). A developmental solution to (dynamic) capacitated arc routing problems using genetic programming. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Whitley and Chen(2012)] **Whitley, D. and Chen, W.** (2012). Constant time steepest descent local search with lookahead for nk-landscapes and max-ksat. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Wilkerson et al.(2012)Wilkerson, Tauritz and Bridges] **Wilkerson, J. L., Tauritz, D. R. and Bridges, J. M.** (2012). Multi-objective coevolutionary automated software correction. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings*

- [Xue et al.(2012)Xue, Zhang and Browne] **Xue, B., Zhang, M. and Browne, W. N.** (2012). Multi-objective particle swarm optimisation (pso) for feature selection. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Yagoubi and Schoenauer(2012)] **Yagoubi, M. and Schoenauer, M.** (2012). Asynchronous master/slave moeas and heterogeneous evaluation costs. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Yang et al.(2012)Yang, Guang, Säntti and Plosila] **Yang, B., Guang, L., Säntti, T. and Plosila, J.** (2012). t(k)-sa: accelerated simulated annealing algorithm for application mapping on networks-on-chip. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Zaki et al.(2012)Zaki, Berengueres and Efimov] **Zaki, N., Berengueres, J. and Efimov, D.** (2012). Prorank: a method for detecting protein complexes. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.
- [Zhang et al.(2012)Zhang, Manier and Manier] **Zhang, Q., Manier, H. and Manier, M.-A.** (2012). A hybrid metaheuristic algorithm for flexible job-shop scheduling problems with transportation constraints. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke and K. Deb, eds., *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*. Philadelphia, Pennsylvania, USA: ACM.