

Список литературы

- [1] Abdelbar, A. M. (7-11 July, 2012) Is there a computational advantage to representing evaporation rate in ant colony optimization as a gaussian random variable?. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1–8.
- [2] Chen, Y., Mazlack, L., and Lu, L. (7-11 July, 2012) Learning fuzzy cognitive maps from data by ant colony optimization. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 9–16.
- [3] Doerr, B., Hota, A., and Kötzing, T. (7-11 July, 2012) Ants easily solve stochastic shortest path problems. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 17–24.
- [4] Garcia-Nieto, J. and Alba, E. (7-11 July, 2012) Why six informants is optimal in PSO. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 25–32.
- [5] Vendramin, A. C. B. K., Munaretto, A., de Biase da Silva Delgado, M. R., and Viana, A. C. (7-11 July, 2012) CGrAnt: a swarm intelligence-based routing protocol for delay tolerant networks. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 33–40.
- [6] Lourenço, N. and Pereira, F. B. (7-11 July, 2012) DACCO: a discrete ant colony algorithm to cluster geometry optimization. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 41–48.

- [7] Medland, M. and Otero, F. (7-11 July, 2012) A study of different quality evaluation functions in the cAnt-Miner(PB) classification algorithm. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 49–56.
- [8] Munoz-Zavala, A. E. and Hernandez-Ramos, E. J. (7-11 July, 2012) Optimal cyclic replacement policy in MSS maintenance via Binomial-PSO. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 57–64.
- [9] Piperagkas, G. S., Georgoulas, G., Parsopoulos, K. E., Stylios, C. D., and Likas, A. C. (7-11 July, 2012) Integrating particle swarm optimization with reinforcement learning in noisy problems. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 65–72.
- [10] Vellasques, E., Sabourin, R., and Granger, E. (7-11 July, 2012) Gaussian mixture modeling for dynamic particle swarm optimization of recurrent problems. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 73–80.
- [11] Xue, B., Zhang, M., and Browne, W. N. (7-11 July, 2012) Multi-objective particle swarm optimisation (PSO) for feature selection. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 81–88.
- [12] Cazenille, L., Bredeche, N., Hamann, H., and Stradner, J. (7-11 July, 2012) Impact of neuron models and network structure on evolving modular robot neural network controllers. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 89–96.

- [13] Doucette, J. A., Lichodziejewski, P., and Heywood, M. I. (7-11 July, 2012) Hierarchical task decomposition through symbiosis in reinforcement learning. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 97–104.
- [14] Hardey, K., Corapcioglu, E., Mattis, M., Goadrich, M., and Jadud, M. (7-11 July, 2012) Exploring and evolving process-oriented control for real and virtual fire fighting robots. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 105–112.
- [15] Inden, B. (7-11 July, 2012) Open-ended coevolution and the emergence of complex irreducible functional units in iterated number sequence games. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 113–120.
- [16] Jeanson, F. and White, A. (7-11 July, 2012) Evolving axonal delay neural networks for robot control. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 121–128.
- [17] Lim, S. L. and Bentley, P. J. (7-11 July, 2012) How to be a successful app developer: lessons from the simulation of an app ecosystem. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 129–136.
- [18] Meng, Y. and Guo, H. (7-11 July, 2012) Evolving network motifs based morphogenetic approach for self-organizing robotic swarms. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 137–144.

- [19] Moore, J. M. and McKinley, P. K. (7-11 July, 2012) Evolving flexible joint morphologies. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 145–152.
- [20] Solomon, M., Soule, T., and Heckendorn, R. B. (7-11 July, 2012) A comparison of a communication strategies in cooperative learning. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 153–160.
- [21] Tanev, I., Kuyucu, T., and Shimohara, K. (7-11 July, 2012) On the cumulative effect of bloat and genetic transposition on the efficiency of incremental evolution of snake-like robot. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 161–168.
- [22] Baumbach, J., Friedrich, T., Kötzing, T., Krohmer, A., Müller, J., and Pauling, J. (7-11 July, 2012) Efficient algorithms for extracting biological key pathways with global constraints. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 169–176.
- [23] Marco, D., Shankland, C., and Cairns, D. (7-11 July, 2012) Evolving Bio-PEPA process algebra models using genetic programming. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 177–184.
- [24] Mendoza, M. R., Lopes, F. M., and Bazzan, A. L. C. (7-11 July, 2012) Reverse engineering of GRNs: an evolutionary approach based on the tsallis entropy. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 185–192.

- [25] Pizzuti, C. and Rombo, S. (7-11 July, 2012) Experimental evaluation of topological-based fitness functions to detect complexes in PPI networks. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 193–200.
- [26] Firoz, J. S., Rahman, M. S., and Saha, T. K. (7-11 July, 2012) Bee algorithms for solving DNA fragment assembly problem with noisy and noiseless data. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 201–208.
- [27] Zaki, N., Berengueres, J., and Efimov, D. (7-11 July, 2012) ProRank: a method for detecting protein complexes. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 209–216.
- [28] Hausknecht, M., Khandelwal, P., Miiikkulainen, R., and Stone, P. (7-11 July, 2012) HyperNEAT-GGP: a hyperNEAT-based atari general game player. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 217–224.
- [29] Hornby, G. S. and Bongard, J. C. (7-11 July, 2012) Accelerating human-computer collaborative search through learning comparative and predictive user models. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 225–232.
- [30] Machado, P. and Pereira, L. (7-11 July, 2012) Photogrowth: non-photorealistic renderings through ant paintings. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 233–240.

- [31] Bosman, P. A. and Alderliesten, T. (7-11 July, 2012) Incremental gaussian model-building in multi-objective EDAs with an application to deformable image registration. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 241–248.
- [32] Brownlee, A. E., McCall, J. A., and Pelikan, M. (7-11 July, 2012) Influence of selection on structure learning in markov network EDAs: an empirical study. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 249–256.
- [33] Iclanzan, D. (7-11 July, 2012) Higher-order linkage learning in the ECGA. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 265–272.
- [34] Pelikan, M. and Hauschild, M. W. (7-11 July, 2012) Distance-based bias in model-directed optimization of additively decomposable problems. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 273–280.
- [35] Rojas-Galeano, S. and Rodriguez, N. (7-11 July, 2012) A memory efficient and continuous-valued compact EDA for large scale problems. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 281–288.
- [36] Thierens, D. and Bosman, P. (7-11 July, 2012) Predetermined versus learned linkage models. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 289–296.

- [37] Arnold, D. V. and Hansen, N. (7-11 July, 2012) A (1+1)-CMA-ES for constrained optimisation. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 297–304.
- [38] Beyer, H.-G. and Hellwig, M. (7-11 July, 2012) Mutation strength control by meta-ES on the sharp ridge. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 305–312.
- [39] Bischl, B., Mersmann, O., Trautmann, H., and Preuß, M. (7-11 July, 2012) Algorithm selection based on exploratory landscape analysis and cost-sensitive learning. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 313–320.
- [40] Loshchilov, I., Schoenauer, M., and Sebag, M. (7-11 July, 2012) Self-adaptive surrogate-assisted covariance matrix adaptation evolution strategy. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 321–328.
- [41] Schaul, T. (7-11 July, 2012) Natural evolution strategies converge on sphere functions. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 329–336.
- [42] Araya, I., Pérez, L., and Riff, M. C. (7-11 July, 2012) Towards a population-based framework for improving stochastic local search algorithms. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 337–344.
- [43] Boumaza, A. and Brun, A. (7-11 July, 2012) From neighbors to global neighbors in collaborative filtering: an evolutionary optimization approach. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 345–352.
- [44] Chalupa, D. (7-11 July, 2012) On the efficiency of an order-based representation in the clique covering problem. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 353–360.
- [45] Choi, J., Yoon, Y., and Moon, B.-R. (7-11 July, 2012) An efficient genetic algorithm for subgraph isomorphism. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 361–368.
- [46] Daolio, F., Verel, S., Ochoa, G., and Tomassini, M. (7-11 July, 2012) Local optima networks and the performance of iterated local search. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 369–376.
- [47] Macharet, D. G., Neto, A. A., Fiuza da Camara Neto, V., and Campos, M. M. (7-11 July, 2012) An evolutionary approach for the dubins' traveling salesman problem with neighborhoods. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 377–384.
- [48] Herbawi, W. M. and Weber, M. (7-11 July, 2012) A genetic and insertion heuristic algorithm for solving the dynamic ridematching problem with time windows. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 385–392.
- [49] Hu, B. and Raidl, G. (7-11 July, 2012) An evolutionary algorithm with solution archives and bounding extension for the generalized minimum spanning tree problem. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 393–400.
- [50] Kattan, A. and Arif, M. (7-11 July, 2012) PSO based on surrogate modeling as meta-search to optimise evolutionary algorithms parameters. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 401–408.
- [51] Moreno-Scott, J. H., Ortíz-Bayliss, J. C., Terashima-Marín, H., and Conant-Pablos, S. E. (7-11 July, 2012) Challenging heuristics: evolving binary constraint satisfaction problems. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 409–416.
- [52] Nascimento, M., Toledo, F., and Carvalho, A. (7-11 July, 2012) A hybrid heuristic for the k-medoids clustering problem. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 417–424.
- [53] Song, B. and Li, V. (7-11 July, 2012) A hybridization between memetic algorithm and semidefinite relaxation for the max-cut problem. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 425–432.
- [54] Sutton, A. M., Day, J., and Neumann, F. (7-11 July, 2012) A parameterized runtime analysis of evolutionary algorithms for MAX-2-SAT. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 433–440.

- [55] Zhang, Q., Manier, H., and Manier, M.-A. (7-11 July, 2012) A hybrid metaheuristic algorithm for flexible job-shop scheduling problems with transportation constraints. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 441–448.
- [56] Abdou, W., Bloch, C., Charlet, D., and Spies, F. (7-11 July, 2012) Adaptive multi-objective genetic algorithm using multi-pareto-ranking. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 449–456.
- [57] Bringmann, K. and Friedrich, T. (7-11 July, 2012) Convergence of hypervolume-based archiving algorithms ii: competitiveness. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 457–464.
- [58] Brockhoff, D., Wagner, T., and Trautmann, H. (7-11 July, 2012) On the properties of the R2 indicator. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 465–472.
- [59] Garza-Fabre, M., Toscano-Pulido, G., and Rodriguez-Tello, E. (7-11 July, 2012) Locality-based multiobjectivization for the HP model of protein structure prediction. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 473–480.
- [60] Ishibuchi, H., Yamane, M., and Nojima, Y. (7-11 July, 2012) Effects of discrete objective functions with different granularities on the search behavior of EMO algorithms. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 481–488.

- [61] Nagy, R., Suci, M. A., and Dumitrescu, D. (7-11 July, 2012) Lorenz equilibrium: equitability in non-cooperative games. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 489–496.
- [62] Phan, D. H., Suzuki, J., and Hayashi, I. (7-11 July, 2012) Leveraging indicator-based ensemble selection in evolutionary multiobjective optimization algorithms. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 497–504.
- [63] Villalobos, C. A. R. and Coello, C. A. C. (7-11 July, 2012) A new multi-objective evolutionary algorithm based on a performance assessment indicator. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 505–512.
- [64] Wang, R., Purshouse, R., and Fleming, P. (7-11 July, 2012) Local preference-inspired co-evolutionary algorithms. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 513–520.
- [65] Auerbach, J. E. and Bongard, J. C. (7-11 July, 2012) On the relationship between environmental and morphological complexity in evolved robots. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 521–528.
- [66] Beal, J., Mostafa, H., Mozeika, A., Axelrod, B., Adler, A., Markiewicz, G., and Usbeck, K. (7-11 July, 2012) A manifold operator representation for adaptive design. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 529–536.

- [67] Cussat-Blanc, S. and Pollack, J. (7-11 July, 2012) A cell-based developmental model to generate robot morphologies. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 537–544.
- [68] Drchal, J. and Snorek, M. (7-11 July, 2012) Distance measures for HyperGP with fitness sharing. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 545–552.
- [69] Fernández, J. D., Vico, F., and Doursat, R. (7-11 July, 2012) Complex and diverse morphologies can develop from a minimal genomic model. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 553–560.
- [70] Joachimczak, M. and Wróbel, B. (7-11 July, 2012) Co-evolution of morphology and control of soft-bodied multicellular animats. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 561–568.
- [71] Richards, D., Dunn, N., and Amos, M. (7-11 July, 2012) An evo-devo approach to architectural design. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 569–576.
- [72] Sayama, H. (7-11 July, 2012) Morphologies of self-organizing swarms in 3D swarm chemistry. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 577–584.
- [73] Coles, D. (7-11 July, 2012) Efficient filters for the simulated evolution of small sorting networks. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 593–600.
- [74] Collier, R. and Wineberg, M. (7-11 July, 2012) An empirical approach to the measurement of interchromosomal distances in the genetic algorithm. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 601–608.
- [75] De Lucia, A., Di Penta, M., Oliveto, R., and Panichella, A. (7-11 July, 2012) Estimating the evolution direction of populations to improve genetic algorithms. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 617–624.
- [76] Goldman, B. W. and Tauritz, D. R. (7-11 July, 2012) Linkage tree genetic algorithms: variants and analysis. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 625–632.
- [77] Hauschild, M., Bhatia, S., and Pelikan, M. (7-11 July, 2012) Image segmentation using a genetic algorithm and hierarchical local search. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 633–640.
- [78] Lee, H. and Yu, T.-L. (7-11 July, 2012) Off-line building block identification: detecting building blocks directly from fitness without genetic algorithms. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 641–648.
- [79] Moraglio, A. and Sudholt, D. (7-11 July, 2012) Runtime analysis of convex evolutionary search. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 649–656.
- [80] Rotaru, C. and Brudaru, O. (7-11 July, 2012) Dynamic segregative genetic algorithm for optimizing the variable ordering of ROBDDs. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 657–664.
- [81] Sarasola, B. and Alba, E. (7-11 July, 2012) How long should we run in dynamic optimization?. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 665–672.
- [82] Simoes, A. and Costa, E. (7-11 July, 2012) Enhancing the virtual loser genetic algorithm for dynamic environments. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 673–680.
- [83] Soares, S., Antunes, C., and Araújo, R. (7-11 July, 2012) A genetic algorithm for designing neural network ensembles. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 681–688.
- [84] Sudholt, D. (7-11 July, 2012) Crossover speeds up building-block assembly. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 689–702.
- [85] Atwater, A., Heywood, M. I., and Zincir-Heywood, N. (7-11 July, 2012) GP under streaming data constraints: a case for pareto archiving?. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 703–710.

- [86] Bailey, A., Ventresca, M., and Ombuki-Berman, B. (7-11 July, 2012) Automatic generation of graph models for complex networks by genetic programming. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 711–718.
- [87] Bassett, J., Kamath, U., and De Jong, K. (7-11 July, 2012) A new methodology for the GP theory toolbox. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 719–726.
- [88] Castelli, M., Manzoni, L., and Vanneschi, L. (7-11 July, 2012) Parameter tuning of evolutionary reactions systems. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 727–734.
- [89] Cornforth, T. and Lipson, H. (7-11 July, 2012) Symbolic regression of multiple-time-scale dynamical systems. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 735–742.
- [90] Fitzgerald, J. and Ryan, C. (7-11 July, 2012) Exploring boundaries: optimising individual class boundaries for binary classification problem. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 743–750.
- [91] Harding, S., Graziano, V., Leitne, J., and Schmidhuber, J. (7-11 July, 2012) MT-CGP: mixed type cartesian genetic programming. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 751–758.
- [92] Harper, R. (7-11 July, 2012) Spatial co-evolution: quicker, fitter and less bloated. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 759–766.
- [93] Hemberg, E., Veeramachaneni, K., McDermott, J., Berzan, C., and O'Reilly, U.-M. (7-11 July, 2012) An investigation of local patterns for estimation of distribution genetic programming. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 767–774.
- [94] Karim, M. R. and Ryan, C. (7-11 July, 2012) Sensitive ants are sensible ants. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 775–782.
- [95] Krawiec, K. (7-11 July, 2012) On relationships between semantic diversity, complexity and modularity of programming tasks. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 783–790.
- [96] 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. (7-11 July, 2012) Genetic programming needs better benchmarks. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 791–798.
- [97] Neumann, F. (7-11 July, 2012) Computational complexity analysis of multi-objective genetic programming. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 799–806.
- [98] Phong, D. N., Hoai, N. X., McKay, R. I., Siriteanu, C., Uy, N. Q., and Park, N. (7-11 July, 2012) Evolving the best known approximation to the Q function. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 807–814.
- [99] Spector, L., Harrington, K., and Helmuth, T. (7-11 July, 2012) Tag-based modularity in tree-based genetic programming. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 815–822.
- [100] Swafford, J., Nicolau, M., Hemberg, E., O'Neill, M., and Brabazon, A. (7-11 July, 2012) Comparing methods for module identification in grammatical evolution. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 823–830.
- [101] Weise, T., Devert, A., and Tang, K. (7-11 July, 2012) A developmental solution to (dynamic) capacitated arc routing problems using genetic programming. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 831–838.
- [102] Ebadi, T., Zhang, M., and Browne, W. (7-11 July, 2012) XCS-based versus UCS-based feature pattern classification system. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 839–846.
- [103] Franco, M. A., Krasnogor, N., and Bacardit, J. (7-11 July, 2012) Post-processing operators for decision lists. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 847–854.
- [104] Fu, W., Johnston, M., and Zhang, M. (7-11 July, 2012) Genetic programming for edge detection using blocks to extract features. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 855–862.
- [105] Iqbal, M., Browne, W. N., and Zhang, M. (7-11 July, 2012) Extracting and using building blocks of knowledge in learning classifier systems. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 863–870.
- [106] Kneissler, J., Stalpf, P. O., Drugowitsch, J., and Butz, M. V. (7-11 July, 2012) Filtering sensory information with XCSF: improving learning robustness and control performance. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 871–878.
- [107] Levesque, J.-C., Durand, A., Gagne, C., and Sabourin, R. (7-11 July, 2012) Multi-objective evolutionary optimization for generating ensembles of classifiers in the ROC space. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 879–886.
- [108] Loscalzo, S., Wright, R., Acunto, K., and Yu, L. (7-11 July, 2012) Sample aware embedded feature selection for reinforcement learning. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 887–894.
- [109] Marzukhi, S., Browne, W. N., and Zhang, M. (7-11 July, 2012) Two-cornered learning classifier systems for pattern generation and classification. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 895–902.
- [110] Moriguchi, H. and Honiden, S. (7-11 July, 2012) CMA-TWEANN: efficient optimization of neural networks via self-adaptation and seamless augmentation. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 903–910.
- [111] Stalpf, P. O. and Butz, M. V. (7-11 July, 2012) Guided evolution in XCSF. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 911–918.
- [112] Tansey, W., Feasley, E., and Miikkulainen, R. (7-11 July, 2012) Accelerating evolution via egalitarian social learning. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 919–926.
- [113] Urbanowicz, R., Granizo-Mackenzie, A., and Moore, J. (7-11 July, 2012) Instance-linked attribute tracking and feedback for michigan-style supervised learning classifier systems. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 927–934.
- [114] Hennes, D., Bloembergen, D., Kaisers, M., Tuyls, K., and Parsons, S. (7-11 July, 2012) Evolutionary advantage of foresight in markets. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 943–950.
- [115] Landa, R., Rojas, Y., and Toscano-Pulido, G. (7-11 July, 2012) An approach for estimating separability and its application on high dimensional optimization. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 951–958.
- [116] Goues, C. L., Wemer, W., and Forrest, S. (7-11 July, 2012) Representations and operators for improving evolutionary software repair. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 959–966.
- [117] Ly, D. L., Saxena, A., and Lipson, H. (7-11 July, 2012) Co-evolutionary predictors for kinematic pose inference from RGBD images. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 967–974.
- [118] hui Zhong, J. and Zhang, J. (7-11 July, 2012) SDE: a stochastic coding differential evolution for global optimization. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 975–982.
- [119] Chatzinikolaou, N. and Robertson, D. (7-11 July, 2012) The use of reputation as noise-resistant selection bias in a co-evolutionary multi-agent system. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 983–990.
- [120] Qin, A. K., Raimondo, F., Forbes, F., and Ong, Y. S. (7-11 July, 2012) An improved CUDA-based implementation of differential evolution on GPU. In Soule, T., Auger, A., Moore, J., Pelta, D., Solmon, 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 991–998.
- [121] Shao, S., Liu, X., Zhou, M., Zhan, J., Liu, X., Chu, Y., and Chen, H. (7-11 July, 2012) A GPU-based implementation of an enhanced GEP algorithm. In Soule, T., Auger, A., Moore, J., Pelta, D., Solmon, 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 999–1006.
- [122] Yagoubi, M. and Schoenauer, M. (7-11 July, 2012) Asynchronous master/slave moeas and heterogeneous evaluation costs. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1007–1014.
- [123] Agogino, A., HolmesParker, C., and Tumer, K. (7-11 July, 2012) Evolving distributed resource sharing for cubesat constellations. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1015–1022.
- [124] Ahmad, A. M., Khan, G. M., Mahmud, S. A., and Miller, J. F. (7-11 July, 2012) Breast cancer detection using cartesian genetic programming evolved artificial neural networks. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1031–1038.
- [125] Alexander, B., Thiel, S., and Peacock, J. (7-11 July, 2012) Application of evolutionary methods to 3D geoscience modelling. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1039–1046.
- [126] Beck, M., de Paly, M., Hecht-Méndez, J., Bayer, P., and Zell, A. (7-11 July, 2012) Evaluation of the performance of evolutionary algorithms for optimization of low-enthalpy geothermal heating plants. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1047–1054.
- [127] Canelas, A., Neves, R., and Horta, N. (7-11 July, 2012) A new SAX-GA methodology applied to investment strategies optimization. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1055–1062.
- [128] Chou, C., Kimbrough, S., Sullivan-Fedock, J., Woodard, C. J., and Murphy, F. H. (7-11 July, 2012) Using interactive evolutionary computation (IEC) with validated surrogate fitness functions for redistricting. In Soule, T., Auger, A., Moore, J., Pelta, D., Solmon, 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1071–1078.
- [129] Churchill, A. W., Husbands, P., and Philippides, A. (7-11 July, 2012) Metaheuristic approaches to tool selection optimisation. In Soule, T., Auger, A., Moore, J., Pelta, D., Solmon, 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1079–1086.
- [130] Hernández, D., Olague, G., Clemente, E., and Dozal, L. (7-11 July, 2012) Evolving a conspicuous point detector based on an artificial dorsal stream: SLAM system. In Soule, T., Auger, A., Moore, J., Pelta, D., Solmon, 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1087–1094.
- [131] Holena, M., Linke, D., and Bajer, L. (7-11 July, 2012) Surrogate modeling in the evolutionary optimization of catalytic materials. In Soule, T., Auger, A., Moore, J., Pelta, D., Solmon, 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1095–1102.
- [132] Kowaliw, T. and Banzhaf, W. (7-11 July, 2012) The unconstrained automated generation of cell image features for medical diagnosis. In Soule, T., Auger, A., Moore, J., Pelta, D., Solmon, 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1103–1110.

- [133] Krupa, J. S., Chatterjee, S., Eldridge, E., Rizzo, D. M., and Eppstein, M. J. (7-11 July, 2012) Evolutionary feature selection for classification: a plug-in hybrid vehicle adoption application. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1111–1118.
- [134] Martins, R., Lourenço, N., and Horta, N. (7-11 July, 2012) LAYGEN II: automatic analog ICs layout generator based on a template approach. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1127–1134.
- [135] McCarney, D. E., Houghten, S., and Ross, B. J. (7-11 July, 2012) Evolutionary approaches to the generation of optimal error correcting codes. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1135–1142.
- [136] Nebel, P., Richter, G., and Weicker, K. (7-11 July, 2012) Multi-container loading with non-convex 3D shapes using a GA/TS hybrid. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1143–1150.
- [137] Vilela Neto, O. P., Pimentel, A. S., Pacheco, M. A. C., and Ênio Frota da Silveira (7-11 July, 2012) Evolutionary algorithms applied to elucidate ionic water cluster structure formation. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1151–1158.
- [138] Santana, R., Bonnet, L., Legény, J., and Lécuyer, A. (7-11 July, 2012) Introducing the use of model-based evolutionary algorithms for EEG-based motor imagery classification. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1159–1166.

- [139] Smith, R. E. and Hussain, M. S. (7-11 July, 2012) Hybrid metaheuristic particle filters for stochastic volatility estimation. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1167–1174.
- [140] Stonedahl, F. and Stonedahl, S. (7-11 July, 2012) Darwinian rivers: evolving stream topographies to match hyporheic residence time distributions. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1175–1182.
- [141] tian Xu, R. and Zhang, J. (7-11 July, 2012) Estimating markov switching model using differential evolution algorithm in prospective infectious disease outbreak detection. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1183–1190.
- [142] Yang, B., Guang, L., Säntti, T., and Plosila, J. (7-11 July, 2012) t(k)-SA: accelerated simulated annealing algorithm for application mapping on networks-on-chip. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1191–1198.
- [143] de Oliveira Barros, M. (7-11 July, 2012) An analysis of the effects of composite objectives in multiobjective software module clustering. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1205–1212.
- [144] Ferrer, J., Kruse, P. M., Chicano, F., and Alba, E. (7-11 July, 2012) Evolutionary algorithm for prioritized pairwise test data generation. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1213–1220.

- [145] Minku, L. L., Sudholt, D., and Yao, X. (7-11 July, 2012) Evolutionary algorithms for the project scheduling problem: runtime analysis and improved design. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1221–1228.
- [146] Wilkerson, J. L., Tauritz, D. R., and Bridges, J. M. (7-11 July, 2012) Multi-objective coevolutionary automated software correction. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1229–1236.
- [147] Barros, R. C., Basgalupp, M. P., de Carvalho, A. C., and Freitas, A. A. (7-11 July, 2012) A hyper-heuristic evolutionary algorithm for automatically designing decision-tree algorithms. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1237–1244.
- [148] Branke, J. and Elomari, J. A. (7-11 July, 2012) Meta-optimization for parameter tuning with a flexible computing budget. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1245–1252.
- [149] Candan, C., Goeffon, A., Lardeux, F., and Saubion, F. (7-11 July, 2012) A dynamic island model for adaptive operator selection. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1253–1260.
- [150] Derbel, H. and Derbel, B. (7-11 July, 2012) On neighborhood tree search. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1261–1268.

- [151] Ortiz-Bayliss, J. C., Terashima-Marín, H., Conant-Pablos, S. E., Özcan, E., and Parkes, A. J. (7-11 July, 2012) Improving the performance of vector hyper-heuristics through local search. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1269–1276.
- [152] Veerapen, N., Maturana, J., and Saubion, F. (7-11 July, 2012) An exploration-exploitation compromise-based adaptive operator selection for local search. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1277–1284.
- [153] jie Yu, W. and Zhang, J. (7-11 July, 2012) Adaptive differential evolution with optimization state estimation. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1285–1292.
- [154] Akimoto, Y. (7-11 July, 2012) Analysis of a natural gradient algorithm on monotonic convex-quadratic-composite functions. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1293–1300.
- [155] Chicano, F., Whitley, D., and Alba, E. (7-11 July, 2012) Exact computation of the expectation curves for uniform crossover. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1301–1308.
- [156] Jansen, T. and Zarges, C. (7-11 July, 2012) Fixed budget computations: a different perspective on run time analysis. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1325–1332.

- [157] Koetzing, T., Sutton, A. M., Neumann, F., and O'Reilly, U.-M. (7-11 July, 2012) The max problem revisited: the importance of mutation in genetic programming. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1333–1340.
- [158] Oliveto, P. S. and Witt, C. (7-11 July, 2012) On the analysis of the simple genetic algorithm. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1341–1348.
- [159] Rowe, J. E. and Sudholt, D. (7-11 July, 2012) The choice of the offspring population size in the (1,lambda) EA. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1349–1356.
- [160] Whitley, D. and Chen, W. (7-11 July, 2012) Constant time steepest descent local search with lookahead for NK-landscapes and MAX-kSAT. In 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.), *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference*, Philadelphia, Pennsylvania, USA: ACM pp. 1357–1364.
- [161] 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.) *GECCO '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference* Philadelphia, Pennsylvania, USA (7-11 July, 2012).