

Список литературы

- [AAS⁺12] A. Alford, J. Adams, J. Shelton, K. Bryant, J. Kelly, and G. Dozier, “Analyzing the cross-generalization ability of a hybrid genetic & evolutionary application for multibiometric feature weighting and selection,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1521–1522.
- [AH12] A. Auger and N. Hansen, “Tutorial cma-es: evolution strategies and covariance matrix adaptation,” in *GECCO 2012 Advanced tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 827–848.
- [AHC12] B. Amiri, L. Hossain, and J. Crowford, “A multiobjective hybrid evolutionary algorithm for clustering in social networks,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1445–1446.
- [AK12] N. Aleb and S. Kechid, “A new framework for scalable genetic programming,” in *GECCO 2012 Symbolic regression and modeling workshop*, S. Gustafson and E. Vladislavleva, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 487–492.
- [AW12] A. M. Abdelbar and D. C. Wunsch, “Improving the performance of max-min ant system on the tsp using stubborn ants,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1395–1396.
- [Bae12] T. Baeck, “Evolution strategies: basic introduction,” in *GECCO 2012 Introductory tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 711–736.
- [BAH12] D. Brockhoff, A. Auger, and N. Hansen, “On the effect of mirroring in the ipop active cma-es on the noiseless bbob testbed,” in *Black box optimization benchmarking 2012 (BBOB 2012)*, A. Auger, A. Chotard, N. Hansen, V. Heidrich-Meisner, O. Mersmann, P. Posik, and M. Preuss, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 277–284.
- [BAL⁺12] M. Bazargani, A. Anjos, F. Lobo, A. Mollahosseini, and H. Shahbazkia, “Affine image registration transformation estimation using a real coded genetic algorithm with sbx,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L.

- Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1459–1460.
- [Ban12] A. Banerjee, “Density-based evolutionary outlier detection,” in *GECCO 2012 Late breaking abstracts workshop*, K. Rodriguez and C. Blum, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 651–652.
- [Baz12] A. L. Bazzan, “Co-evolution of the dynamics in population games: the case of traffic flow assignment,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1523–1524.
- [BBFZ12] T. Bartz-Beielstein, O. Flasch, and M. Zaefferer, “Sequential parameter optimization for symbolic regression,” in *GECCO 2012 Symbolic regression and modeling workshop*, S. Gustafson and E. Vladislavleva, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 495–496.
- [BBH12] J. Bongard, P. Beliveau, and G. Hornby, “Avoiding local optima with interactive evolutionary robotics,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1405–1406.
- [BCM12] C. Byers, B. Cheng, and P. McKinley, “Exploring the evolution of internal control structure using digital enzymes,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1407–1408.
- [BDD⁺12] A. Bartoli, G. Davanzo, A. De Lorenzo, M. Mauri, E. Medvet, and E. Sorio, “Automatic generation of regular expressions from examples with genetic programming,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1477–1478.
- [Ber12] O. Bernstein, “Flea market simulator: a market simulator for experiments on the computational evolution of trading strategies for economic agents,” in *Tenth GECCO*

- Undergraduate Student Workshop*, S. Goings, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 549–554.
- [BFFU12] V. Bevilacqua, G. Filograno, M. Fiorentino, and A. E. Uva, “Early diagnosis of lung tumors by genetically optimized 3d-metaball malignancy metric,” in *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, S. L. Smith, S. Cagnoni, and R. M. Patton, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 531–538.
- [BHB12] P. Beliveau, G. Hornby, and J. Bongard, “Interactive simulated robot construction and controller evolution,” in *GECCO 2012 Late breaking abstracts workshop*, K. Rodriguez and C. Blum, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 627–628.
- [BL12] J. Bacardit and X. Llorà, “Large scale data mining using genetics-based machine learning,” in *GECCO 2012 Specialized techniques and applications tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1171–1196.
- [BPW⁺12] A. Beham, E. Pitzer, S. Wagner, M. Affenzeller, K. Altendorfer, T. Felberbauer, and M. Bäck, “Integration of flexible interfaces in optimization software frameworks for simulation-based optimization,” in *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, S. Wagner and M. Affenzeller, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 125–132.
- [BS12a] B. Behzadan and R. E. Smith, “An information-based approach towards neuro-evolution,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1491–1492.
- [BS12b] A. Benbassat and M. Sipper, “Evolving players that use selective game-tree search with genetic programming,” in *GECCO 2012 Late breaking abstracts workshop*, K. Rodriguez and C. Blum, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 631–632.
- [BS12c] M. Buzdalov and A. Sokolov, “Evolving efsms solving a path-planning problem by genetic programming,” in *GECCO 2012 Graduate Students Workshop*, A. Motsinger-Reif, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 591–594.
- [Bur12] K. Burjorjee, “Explaining adaptation in genetic algorithms with uniform crossover: the hyperclimbing hypothesis,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1461–1462.
- [Bus12] W. S. Bush, “Introduction to bioinformatics and computational biology,” in *GECCO 2012 Specialized techniques and applications tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1141–1170.
- [CAPL12] E. S. Cavalcante, A. L. Aquino, G. L. Pappa, and A. A. Loureiro, “Roadside unit deployment for information dissemination in a vanet: an evolutionary approach,” in

- GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*, A.-A. Tantar, E. Tantar, and P. A. Bosman, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 27–34.
- [CB12a] S. E. Celis and J. Bongard, “Not all physics simulators can be wrong in the same way,” in *GECCO 2012 Late breaking abstracts workshop*, K. Rodriguez and C. Blum, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 659–660.
- [CB12b] C. Comis Da Ronco and E. Benini, “Gedea-ii: a simplex-crossover based multi objective evolutionary algorithm including the genetic diversity asobjective,” in *GECCO 2012 Late breaking abstracts workshop*, K. Rodriguez and C. Blum, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 619–620.
- [CC12] Y.-C. Chuang and C.-T. Chen, “Black-box optimization benchmarking for noiseless function testbed using a direction-based rcga,” in *Black box optimization benchmarking 2012 (BBOB 2012)*, A. Auger, A. Chotard, N. Hansen, V. Heidrich-Meisner, O. Mersmann, P. Posik, and M. Preuss, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 167–174.
- [CCM⁺12] S. Cagnoni, O. Cordón, P. Mesejo, Y. S. Nashed, and R. Ugolotti, “First results and future developments of the mibisoc project in the ibislab of the university of parma,” in *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, S. L. Smith, S. Cagnoni, and R. M. Patton, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 509–516.
- [CH12] P. Collet and S. Harding, “Evolutionary algorithms and genetic programming on graphic processing units (gpu),” in *GECCO 2012 Specialized techniques and applications tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1117–1138.
- [CMR12] J. Correia, P. Machado, and J. Romero, “Improving haar cascade classifiers through the synthesis of new training examples,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1479–1480.
- [CMZB12] A. Castellini, V. Manca, M. Zucchelli, and M. Busato, “A genetic approach for synthesizing metabolic models from time series,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1415–1416.
- [CO12] M. G. Carneiro and G. M. B. Oliveira, “Synchronous cellular automata scheduler with construction heuristic to static task scheduling in multiprocessors,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark,

- G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1433–1434.
- [Coe12] C. A. Coello Coello, “Constraint-handling techniques used with evolutionary algorithms,” in *GECCO 2012 Advanced tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 849–872.
- [Col12] M. Coletti, “The effects of training set size and keeping rules on the emergent selection pressure of learnable evolution model,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1505–1506.
- [CUT12] D. Chivilikhin, V. Ulyantsev, and F. Tsarev, “Test-based extended finite-state machines induction with evolutionary algorithms and ant colony optimization,” in *GECCO 2012 Graduate Students Workshop*, A. Motsinger-Reif, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 603–606.
- [CZL12] N. Chen, J. Zhang, and O. Liu, “Adaptive genetic algorithm based on density distribution of population,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1543–1544.
- [CZM12] B. D. Connelly, L. Zaman, and P. K. McKinley, “The seeds platform for evolutionary and ecological simulations,” in *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, S. Wagner and M. Affenzeller, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 133–140.
- [DBB12] L. Dumas, P. Boutouyrie, and E. Bozec, “An optimal reconstruction of the human arterial tree from doppler echotracking measurements,” in *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, S. L. Smith, S. Cagnoni, and R. M. Patton, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 517–522.
- [dCFC12] M. de Oliveira Barros, H. R. Costa, F. V. Figueiredo, and A. R. Cavalcanti da Rocha, “Multiobjective optimization for project portfolio selection,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1541–1542.
- [De 12] K. De Jong, “Evolutionary computation: a unified approach,” in *GECCO 2012 Introductory tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 737–750.

- [DFG⁺12] F.-M. De Rainville, F.-A. Fortin, M.-A. Gardner, M. Parizeau, and C. Gagné, “Deap: a python framework for evolutionary algorithms,” in *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, S. Wagner and M. Affenzeller, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 85–92.
- [DJM12] S. Doncieux, Y. Jin, and J.-B. Mouret, “Evo-devo-robo workshop program,” in *GECCO 2012 Evolutionary developmental robotics*, S. Doncieux, Y. Jin, and J.-B. Mouret, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 355–356.
- [dM12] V. V. de Melo, “Benchmarking the multi-view differential evolution on the noiseless bboob-2012 function testbed,” in *Black box optimization benchmarking 2012 (BBOB 2012)*, A. Auger, A. Chotard, N. Hansen, V. Heidrich-Meisner, O. Mersmann, P. Posik, and M. Preuss, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 183–188.
- [Dob12] F. Dobslaw, “Input: the intelligent parameter utilization tool,” in *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, S. Wagner and M. Affenzeller, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 149–156.
- [Doe12] B. Doerr, “Black-box complexity: from complexity theory to playing mastermind,” in *GECCO 2012 Specialized techniques and applications tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1079–1092.
- [DRM12] A. Darvish, S. Rahnamayan, and Z. S. Mohamad, “Interactive differential evolution for prostate ultrasound image thresholding,” in *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, S. L. Smith, S. Cagnoni, and R. M. Patton, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 501–508.
- [EO12] M. M. H. Ellabaan and Y. S. Ong, “Experiences on memetic computation for locating transition states in biochemical applications,” in *GECCO 2012 Late breaking abstracts workshop*, K. Rodriguez and C. Blum, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 623–624.
- [EPW12] A. English, H. Petruso, and C. Wang, “Grammatical evolution decision trees for trio designs,” in *Tenth GECCO Undergraduate Student Workshop*, S. Goings, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 559–562.
- [FHN⁺12] D. Fagan, E. Hemberg, M. Nicolau, M. O’Neill, and S. McGarraghy, “Towards adaptive mutation in grammatical evolution,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1481–1482.
- [FJZ12] W. Fu, M. Johnston, and M. Zhang, “Genetic programming for edge detection based on figure of merit,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1483–1484.

- [FKS12] N. Fredivianus, K. Kara, and H. Schmeck, “Stay real!: Xcs with rule combining for real values,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1493–1494.
- [FL12] S. Forrest and C. LeGoues, “Evolutionary software repair,” in *GECCO 2012 Specialized techniques and applications tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1345–1348.
- [FMM⁺12] C. M. Fernandes, A. Mora, J. J. Merelo, F. Fernández, and A. Rosa, “Generating colored 2-dimensional representations of sleep eeg with the kants clustering algorithm,” in *GECCO 2012 Visualisation methods for genetic and evolutionary computation (VizGEC)*, R. Everson, J. Fieldsend, and D. Walker, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 435–442.
- [FR12] C. Fonlupt and D. Robilliard, “Combining programs to counter code disruption,” in *GECCO 2012 Late breaking abstracts workshop*, K. Rodriguez and C. Blum, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 643–644.
- [Gag12] D. J. Gagne, “Gamiv: a genetic algorithm for identifying variable-length motifs in noncoding dna,” in *Tenth GECCO Undergraduate Student Workshop*, S. Goings, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 555–558.
- [Gar12] D. Garrett, “A call for collaborative landscape analysis,” in *1st workshop on Understanding Problems (GECCO-UP)*, K. McClymont and E. Keedwell, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 409–416.
- [GGV⁺12] E. R. García, R. M. Gutiérrez, P. L. Velázquez, A. Ponsich, M. Ángel Gutiérrez Andrade, and S. De Los Cobos Silva, “A discrete artificial bee colony algorithm for the multi-objective redistricting problem,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1439–1440.
- [GKS12] F. Gomez, J. Koutník, and J. Schmidhuber, “Complexity search for compressed neural networks,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1455–1456.
- [GL12] Y. Gao and D. Lv, “Principal coordinate strategy: a novel adaptive control strategy for differential evolution,” in *Tenth GECCO Undergraduate Student Workshop*, S. Goings, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 573–578.
- [Goo12] E. D. Goodman, “Introduction to genetic algorithms,” in *GECCO 2012 Introductory tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 671–692.

- [GT12] B. W. Goldman and D. R. Tauritz, “Supportive coevolution,” in *GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms*, G. L. Pappa, J. Woodward, M. R. Hyde, and J. Swan, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 59–66.
- [GTL⁺12] F. Gullo, A. K. Talukder, S. Luke, C. Domeniconi, and A. Tagarelli, “Multiobjective optimization of co-clustering ensembles,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1495–1496.
- [HAA12] S. Hutterer, M. Affenzeller, and F. Auinger, “Evolutionary optimization of multi-agent control strategies for electric vehicle charging,” in *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*, A.-A. Tantar, E. Tantar, and P. A. Bosman, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 3–10.
- [Han12] S. Han, “Batting order optimization by genetic algorithm,” in *GECCO 2012 Graduate Students Workshop*, A. Motsinger-Reif, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 599–602.
- [HMH⁺12] K. Hoover, R. Marceau, T. Harris, D. Reif, and A. Motsinger-Reif, “A comparison of ge optimized neural networks and decision trees,” in *GECCO 2012 Graduate Students Workshop*, A. Motsinger-Reif, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 611–614.
- [HPR12] B. H. Helmi, M. Pelikan, and A. T. Rahmani, “Linkage learning using the maximum spanning tree of the dependency graph,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1429–1430.
- [HS12] T. Helmuth and L. Spector, “Empirical investigation of size-based tournaments for node selection in genetic programming,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1485–1486.
- [HSPO12] K. I. Harrington, L. Spector, J. B. Pollack, and U.-M. O’Reilly, “Autoconstructive evolution for structural problems,” in *GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms*, G. L. Pappa, J. Woodward, M. R. Hyde, and J. Swan, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 75–82.

- [HVO12] E. Hemberg, K. Veeramachaneni, and U.-M. O'Reilly, "Graphical models and what they reveal about gp when it solves a symbolic regression problem," in *GECCO 2012 Symbolic regression and modeling workshop*, S. Gustafson and E. Vladislavleva, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 493–494.
- [HY12a] T.-Y. Ho and T.-L. Yu, "A linkage-learning niching in estimation of distribution algorithm," in *GECCO 2012 Late breaking abstracts workshop*, K. Rodriguez and C. Blum, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 649–650.
- [HY12b] C.-H. Hsueh and T.-L. Yu, "Affective content based music video paring system using real coded ga," in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1427–1428.
- [hZZ12] Z. hui Zhan and J. Zhang, "Enhance differential evolution with random walk," in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1513–1514.
- [IGD12] D. Iclanzan, N. Gaskó, and D. Dumitrescu, "Evolving mixed nash equilibria for bimatrix games," in *GECCO 2012 Late breaking abstracts workshop*, K. Rodriguez and C. Blum, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 655–656.
- [ILC12] S. B. Ismail, F. Legras, and G. Coppin, "A new interactive evolutionary algorithm for the vehicle routing problem," in *GECCO 2012 Late breaking abstracts workshop*, K. Rodriguez and C. Blum, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 661–668.
- [JBE12] K. Jebari, A. Bouroumi, and A. Ettouhami, "Genetic fuzzy rules for dops," in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1507–1508.
- [JC12] H. C. Jimbo and M. J. Craven, "A dynamical model of cancer chemotherapy with disturbance," in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1417–1418.
- [JKDW12] M. Joachimczak, T. Kowaliw, R. Doursat, and B. Wróbel, "Evolving morphologies and controllers for soft-bodied multicellular animats using gene regulatory networks

- and artificial embryogenesis,” in *GECCO 2012 Evolutionary developmental robotics*, S. Doncieux, Y. Jin, and J.-B. Mouret, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 357–360.
- [Jul12] B. A. Julstrom, “Clans and cooperation in the iterated prisoner’s dilemma,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1463–1464.
- [JZ12] T. Jansen and C. Zarges, “Artificial immune systems for optimisation,” in *GECCO 2012 Specialized techniques and applications tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1059–1078.
- [KF12] A. Kattan and S. Fatima, “Evolving optimal agendas and strategies for negotiation in dynamic environments: a surrogate based approach,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1435–1436.
- [KKW⁺12] M. Kommenda, G. Kronberger, S. Wagner, S. Winkler, and M. Affenzeller, “On the architecture and implementation of tree-based genetic programming in heuristicslab,” in *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, S. Wagner and M. Affenzeller, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 101–108.
- [KM12] J. Kim and B.-R. Moon, “New malware detection system using metric-based method and hybrid genetic algorithm,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1527–1528.
- [KNI12] K. Komiya, N. Noman, and H. Iba, “The search for robust topologies of oscillatory gene regulatory networks by evolutionary computation,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1419–1420.
- [Kot12] M. Kotanchek, “Robust function discovery and feature selection for life sciences and engineering,” in *GECCO 2012 Symbolic regression and modeling workshop*, S. Gustafson

and E. Vladislavleva, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 497–498.

- [KP12] K. Krawiec and T. Pawlak, “Locally geometric semantic crossover,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1487–1488.
- [KPFKV12] M. A. Kaliakatsos-Papakostas, A. Floros, N. Kanellopoulos, and M. N. Vrahatis, “Genetic evolution of l and fl-systems for the production of rhythmic sequences,” in *GECCO 2012 Evolutionary music*, F. Fernandez de Vega and C. Cotta, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 461–468.
- [KPS⁺12] P. Kromer, L. Prokop, V. Snasel, S. Misak, J. Platos, and A. Abraham, “Evolutionary prediction of photovoltaic power plant energy production,” in *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*, A.-A. Tantar, E. Tantar, and P. A. Bosman, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 35–42.
- [KT12] M. Knudson and K. Tumer, “Policy transfer in mobile robots using neuro-evolutionary navigation,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1411–1412.
- [Kue12] T. J. Kuehn, “Evolutionary fabrication: a system of autonomous invention,” in *Tenth GECCO Undergraduate Student Workshop*, S. Goings, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 579–584.
- [LCTMCP12] E. López-Camacho, H. Terashima-Marín, and S. E. Conant-Pablos, “The impact of the bin packing problem structure in hyper-heuristic performance,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1545–1546.
- [Leh12] P. K. Lehre, “Drift analysis,” in *GECCO 2012 Specialized techniques and applications tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1239–1258.
- [ILZnC12] Y. long Li, J. Zhang, and W. neng Chen, “Differential evolution algorithm with pca-based crossover,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano,

- M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1509–1510.
- [LMK12] G. Longo, M. Montévil, and S. Kauffman, “No entailing laws, but enablement in the evolution of the biosphere,” in *GECCO 2012 Keynote talks*, J. H. Moore, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1379–1392.
- [LMS⁺12] T. Liao, D. Molina, T. Stutzle, M. A. Montes de Oca, and M. Dorigo, “An aco algorithm benchmarked on the bbob noiseless function testbed,” in *Black box optimization benchmarking 2012 (BBOB 2012)*, A. Auger, A. Chotard, N. Hansen, V. Heidrich-Meisner, O. Mersmann, P. Posik, and M. Preuss, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 159–166.
- [LP12] D. Loiacono and M. Preuß, “Computational intelligence in games,” in *GECCO 2012 Specialized techniques and applications tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1139–1140.
- [LPC12] N. Lourenço, F. Pereira, and E. Costa, “Evolving evolutionary algorithms,” in *GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms*, G. L. Pappa, J. Woodward, M. R. Hyde, and J. Swan, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 51–58.
- [LSS12] I. Loshchilov, M. Schoenauer, and M. Sebag, “Black-box optimization benchmarking of ipop-saacm-es and bipop-saacm-es on the bbob-2012 noiseless testbed,” in *Black box optimization benchmarking 2012 (BBOB 2012)*, A. Auger, A. Chotard, N. Hansen, V. Heidrich-Meisner, O. Mersmann, P. Posik, and M. Preuss, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 175–182.
- [LTH12] P. Lee, Y. Teng, and T.-C. Hsiao, “Xcsf for prediction on emotion induced by image based on dimensional theory of emotion,” in *Fifteenth international workshop on learning classifier systems (ICWLS)*, D. Loiacono, A. Orriols-Puig, and R. Urbanowicz, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 375–382.
- [ME12] S. Mukherjee and M. J. Eppstein, “Differential evolution of constants in genetic programming improves efficacy and bloat,” in *GECCO 2012 Late breaking abstracts workshop*, K. Rodriguez and C. Blum, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 625–626.
- [MEH⁺12] N. Manukyan, M. J. Eppstein, J. D. Horbar, K. A. Leahy, M. J. Kenny, S. Mukherjee, and D. M. Rizzo, “Evolutionary mining for multivariate associations in large time-varying data sets: a healthcare network application,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1547–1548.
- [MFME12] J. J. Merelo, C. M. Fernandes, A. M. Mora, and A. I. Esparcia, “Sofea: a pool-based framework for evolutionary algorithms using couchdb,” in *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, S. Wagner and M. Affenzeller, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 109–116.
- [MGMEF12] J.-J. Merelo-Guervós, A. M. Mora, A. I. Esparcia, and C. M. Fernandes, “Validating design choices in a pool-based distributed evolutionary algorithms architecture,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger,

- J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1517–1518.
- [MH12] J. F. Miller and S. Harding, “Gecco 2012 tutorial: cartesian genetic programming,” in *GECCO 2012 Specialized techniques and applications tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1093–1116.
- [MJP⁺12] L. Matoso, F. Junior, A. Pereira, A. Veloso, and J. Wagner Meira, “New evolutionary approaches to high-dimensional data,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1447–1448.
- [MMR12] S. Marvel and A. Motsinger-Reif, “Grammatical evolution support vector machines for predicting human genetic disease association,” in *GECCO 2012 Graduate Students Workshop*, A. Motsinger-Reif, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 595–598.
- [Mor12] A. Moraglio, “Geometry of evolutionary algorithms,” in *GECCO 2012 Specialized techniques and applications tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1317–1344.
- [MSSM12] N. Mani, G. Srivastava, A. K. Sinha, and A. Mani, “An evaluation of cellular population model for improving quantum-inspired evolutionary algorithm,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1437–1438.
- [MTF12] M. Mlakar, T. Taaar, and B. Filipić, “Discrete vs. continuous multiobjective optimization of continuous casting of steel,” in *GECCO 2012 Graduate Students Workshop*, A. Motsinger-Reif, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 587–590.
- [MVR⁺12] J. Maturana, F. Vergara, C. Rojas, F. Saubion, F. Vargas, and D. Vidal, “Improving clonal colony optimization to evolve robust solutions,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1511–1512.
- [MWD12] K. McClymont, D. Walker, and M. Dupenois, “The lay of the land: a brief survey of problem understanding,” in *1st workshop on Understanding Problems (GECCO-UP)*,

- K. McClymont and E. Keedwell, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 425–432.
- [NAM12] S. Nourashrafeddin, D. Arnold, and E. Milios, “An evolutionary subspace clustering algorithm for high-dimensional data,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1497–1498.
- [NBC⁺12] M. S. Nobile, D. Besozzi, P. Cazzaniga, G. Mauri, and D. Pescini, “Estimating reaction constants in stochastic biological systems with a multi-swarm pso running on gpus,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1421–1422.
- [NHM12] V. Noroozi, A. B. Hashemi, and M. R. Meybodi, “Alpinist cellularde: a cellular based optimization algorithm for dynamic environments,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1519–1520.
- [NSDD12] M. Nasir, S. Sengupta, S. Das, and S. Das, “Configuration of sensors on a 3-d terrain: an approach based on evolutionary multi-objective optimization,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1443–1444.
- [NUMC12] Y. S. Nashed, R. Ugolotti, P. Mesejo, and S. Cagnoni, “libcudaoptimize: an open source library of gpu-based metaheuristics,” in *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, S. Wagner and M. Affenzeller, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 117–124.
- [NW12] F. Neumann and C. Witt, “Bioinspired computation in combinatorial optimization: algorithms and their computational complexity,” in *GECCO 2012 Advanced tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1035–1058.
- [Och12] G. Ochoa, “Hyper-heuristics and cross-domain optimization,” in *GECCO 2012 Specialized techniques and applications tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1197–1214.

- [OCJ12] F. Otero, T. Castle, and C. Johnson, “Epochx: genetic programming in java with statistics and event monitoring,” in *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, S. Wagner and M. Affenzeller, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 93–100.
- [OH12] A. P. Ozisik and K. I. Harrington, “The effects of tags on the evolution of honest signaling,” in *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, F. Stonedahl and R. Riolo, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 345–352.
- [ON12] S. Ono and S. Nakayama, “User-system cooperative evolution for japanese anagram sentence generation,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1529–1530.
- [OPD12] C. Ollion, T. Pinville, and S. Doncieux, “Emergence of memory in neuroevolution: impact of selection pressures,” in *GECCO 2012 Evolutionary developmental robotics*, S. Doncieux, Y. Jin, and J.-B. Mouret, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 369–372.
- [OR12a] T. Oliwa and K. Rasheed, “A surrogate-assisted and informed linkage aware ga,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1467–1468.
- [O’R12b] U.-M. O’Reilly, “Genetic programming: a tutorial introduction,” in *GECCO 2012 Introductory tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 693–710.
- [Pad12] N. Padhye, “Evolutionary approaches for real world applications in 21st century,” in *GECCO 2012 Real world applications of evolutionary computation*, N. Padhye, A. Baughman, S. Van Der Stock, M. Perlitz, S. M. Gustafson, and J. Jesneck, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 43–48.
- [PBA12] E. Pitzer, A. Beham, and M. Affenzeller, “Generic hardness estimation using fitness and parameter landscapes applied to robust taboo search and the quadratic assignment problem,” in *1st workshop on Understanding Problems (GECCO-UP)*, K. McClymont and E. Keedwell, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 393–400.
- [PC12] M. E. Palmer and A. K. Chou, “An artificial visual cortex drives behavioral evolution in co-evolved predator and prey robots,” in *GECCO 2012 Evolutionary developmental robotics*, S. Doncieux, Y. Jin, and J.-B. Mouret, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 361–364.
- [Pel12] M. Pelikan, “Probabilistic model-building genetic algorithms,” in *GECCO 2012 Introductory tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 777–804.

- [PH12a] L. Palafox and I. Hitoshi, “Gene regulatory network reverse engineering using population based incremental learning and k-means,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1423–1424.
- [PH12b] J. Pinto and N. Horta, “Automated passive filter design using multi-objective genetic algorithms with variable parameters,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1531–1532.
- [PJ12] M. Porta and B. A. Julstrom, “Evolving instances of unconstrained binary quadratic programming that challenge a tabu search heuristic,” in *GECCO 2012 Late breaking abstracts workshop*, K. Rodriguez and C. Blum, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 639–640.
- [PK12] P. Poafk and V. Klema, “Benchmarking the differential evolution with adaptive encoding on noiseless functions,” in *Black box optimization benchmarking 2012 (BBOB 2012)*, A. Auger, A. Chotard, N. Hansen, V. Heidrich-Meisner, O. Mersmann, P. Posik, and M. Preuss, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 189–196.
- [PLL⁺12] J. Pascalie, V. Lobjois, H. Luga, B. Ducommun, and Y. Duthen, “Checkpoint oriented cell-cycle simulation: critical role for age distribution initialization,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1425–1426.
- [PN12] M. Pilat and R. Neruda, “A surrogate multiobjective evolutionary strategy with local search and pre-selection,” in *GECCO 2012 Late breaking abstracts workshop*, K. Rodriguez and C. Blum, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 633–634.
- [PSC⁺12] D. H. Phan, J. Suzuki, R. Carroll, S. Balasubramaniam, W. Donnelly, and D. Botvich, “Evolutionary multiobjective optimization for green clouds,” in *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*, A.-A. Tantar, E. Tantar, and P. A. Bosman, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 19–26.
- [QBL12] J. C. Quiroz, A. Banerjee, and S. J. Louis, “3-d modeling using collaborative evolution,” in *GECCO 2012 Late breaking abstracts workshop*, K. Rodriguez and C. Blum, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 653–654.
- [RADG12] M. Ryerkerk, R. Averill, K. Deb, and E. Goodman, “Meaningful representation and recombination of variable length genomes,” in *GECCO Companion '12: Proceedings*

- of the fourteenth international conference on Genetic and evolutionary computation conference companion, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1471–1472.
- [RAW12] B. Rafael, M. Affenzeller, and S. Wagner, “An adaption of the schema theorem to various crossover and mutation operators for a music segmentation problem,” in *GECCO 2012 Evolutionary music*, F. Fernandez de Vega and C. Cotta, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 469–476.
- [RDD12] A. Rajasekhar, S. Das, and S. Das, “muabc: a micro artificial bee colony algorithm for large scale global optimization,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1399–1400.
- [Reg12] R. G. Regis, “Surrogate-assisted evolutionary programming for high dimensional constrained black-box optimization,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1431–1432.
- [RFF12] G. Reis, F. Fernández, and A. Ferreira, “Evolutionary algorithms and automatic transcription of music,” in *GECCO 2012 Evolutionary music*, F. Fernandez de Vega and C. Cotta, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 477–484.
- [RHLM12] T. Ranjeet, P. Hingston, C. P. Lam, and M. Masek, “Evaluating coevolution on a multimodal problem,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1469–1470.
- [RLJ12] M. Rudinac, B. Lenseigne, and P. P. Jonker, “Empirical mode decomposition for saliency detection,” in *GECCO 2012 Evolutionary developmental robotics*, S. Doncieux, Y. Jin, and J.-B. Mouret, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 365–368.
- [RM12] W. K. Richard and S. M. Majercik, “Swarm-based path creation in dynamic environments for search and rescue,” in *GECCO Companion ’12: Proceedings of the*

- fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1401–1402.
- [Rog12] T. Rogalsky, “Bezier control parameterization for evolutionary optimization in disease models,” in *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, S. L. Smith, S. Cagnoni, and R. M. Patton, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 523–530.
- [Rot12] F. Rothlauf, “Representations for evolutionary algorithms,” in *GECCO 2012 Advanced tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 873–894.
- [Row12] J. E. Rowe, “Genetic algorithm theory,” in *GECCO 2012 Advanced tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 917–940.
- [RS12a] J. Rieffel and S. Smith, “Growing and evolving soft robots with a face-encoding tetrahedral grammar,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1457–1458.
- [RS12b] K. Rocki and R. Suda, “An efficient gpu implementation of a multi-start tsp solver for large problem instances,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1441–1442.
- [RSKS12] T. Raway, D. J. Schaffer, K. J. Kurtz, and H. Sayama, “Evolving data sets to highlight the performance differences between machine learning classifiers,” in *GECCO 2012 Late breaking abstracts workshop*, K. Rodriguez and C. Blum, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 657–658.
- [RTT⁺12] B. Rand, A.-A. Tantar, E. Tantar, P. A. Bosman, N. Padhye, A. Baughman, S. Van Der Stock, M. Perlitz, S. M. Gustafson, J. Jesneck, G. L. Pappa, J. Woodward, M. R. Hyde, J. Swan, S. Wagner, M. Affenzeller, A. Auger, A. Chotard, N. Hansen, V. Heidrich-Meisner, O. Mersmann, P. Posik, M. Preuss, F. Stonedahl, R. Riolo, S. Doncieux, Y. Jin, J.-B. Mouret, D. Loiacono, A. Orriols-Puig, R. Urbanowicz, K. McClymont, E. Keedwell, R. Everson, J. Fieldsend, D. Walker, F. Fernandez de Vega, C. Cotta, S. Gustafson, E. Vladislavleva, S. L. Smith, S. Cagnoni, R. M. Patton, S. Goings, A. Motsinger-Reif, K. Rodriguez, C. Blum, G. Ochoa, and J. H. Moore, Eds., *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, Philadelphia, Pennsylvania, USA, 7-11 July 2012.

- [SBSFB⁺12] F. J. Soltero, D. J. Bodas-Sagi, P. Fernández-Blanco, J. I. Hidalgo, and F. F. de Vega, “Optimization of technical indicators in real time with multiobjective evolutionary algorithms,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1535–1536.
- [Sch12a] T. Schaul, “Benchmarking separable natural evolution strategies on the noiseless and noisy black-box optimization testbeds,” in *Black box optimization benchmarking 2012 (BBOB 2012)*, A. Auger, A. Chotard, N. Hansen, V. Heidrich-Meisner, O. Mersmann, P. Posik, and M. Preuss, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 205–212.
- [Sch12b] N. Schneider, “Generic prognosis with evolutionary approaches,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1501–1502.
- [Sch12c] C. E. Schoonover, “How to look inside the brain,” in *GECCO 2012 Keynote talks*, J. H. Moore, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1393–1394.
- [SCPD12] M. Suciú, M. Cremene, F. Pop, and D. Dumitrescu, “Equitable solutions in qos-aware service optimization,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1537–1538.
- [SCS⁺12] M. J. Sepúlveda, W. Chau, M. Strum, C. Pedraza, G. Gogniat, and R. Pires, “Multi-objective artificial immune algorithm for security-constrained multi-application noc mapping,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1449–1450.
- [She12] G. I. Sher, “Forex trading using geometry sensitive neural networks,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark,

- G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1533–1534.
- [SML12] R. Santana, A. Mendiburu, and J. Lozano, “Evolving nk-complexity for evolutionary solvers,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1473–1474.
- [Spe12] L. Spector, “Assessment of problem modality by differential performance of lexibase selection in genetic programming: a preliminary report,” in *1st workshop on Understanding Problems (GECCO-UP)*, K. McClymont and E. Keedwell, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 401–408.
- [sPK12] H. soo Park and K. J. Kim, “Automatic python programming using stack-based genetic programming,” in *GECCO 2012 Late breaking abstracts workshop*, K. Rodriguez and C. Blum, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 641–642.
- [SPM12] Q. Sun, B. Pfahringer, and M. Mayo, “Full model selection in the space of data mining operators,” in *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1503–1504.
- [SS12] M. A. Semenov and P. Stratonowitch, “Application of evolutionary algorithms for model calibration,” in *GECCO 2012 Late breaking abstracts workshop*, K. Rodriguez and C. Blum, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 621–622.
- [SSG12] R. K. Srivastava, J. Schmidhuber, and F. Gomez, “Generalized compressed network search,” in *GECCO 2012 Late breaking abstracts workshop*, K. Rodriguez and C. Blum, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 647–648.
- [Sta12] K. O. Stanley, “Evolving neural networks,” in *GECCO 2012 Introductory tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 805–826.
- [Sud12] D. Sudholt, “Theory of swarm intelligence,” in *GECCO 2012 Specialized techniques and applications tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1215–1238.
- [SWPA12] A. Scheibenpflug, S. Wagner, E. Pitzer, and M. Affenzeller, “Optimization knowledge base: an open database for algorithm and problem characteristics and optimization results,” in *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, S. Wagner and M. Affenzeller, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 141–148.
- [SZ12] E. Shafiee and E. Zechman, “Integrating evolutionary computation and sociotechnical simulation for flushing contaminated water distribution systems,” in *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, F. Stonedahl and R. Riolo, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 315–322.

- [SZJ12] M. Setayesh, M. Zhang, and M. Johnston, “A spatial random-meaningful neighbourhood topology in pso for edge detection in noisy images,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1403–1404.
- [TA12] J. Toutouh and E. Alba, “Green olsr in vanets with differential evolution,” in *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*, A.-A. Tantar, E. Tantar, and P. A. Bosman, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 11–18.
- [TDJC12] M. Tan, R. Deklerck, B. Jansen, and J. Cornelis, “Analysis of a feature-deselective neuroevolution classifier (fd-neat) in a computer-aided lung nodule detection system for ct images,” in *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, S. L. Smith, S. Cagnoni, and R. M. Patton, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 539–546.
- [TF12] S. Tsutsui and N. Fujimoto, “On the effect of using multiple gpus in solving gaps with cuda,” in *GECCO 2012 Late breaking abstracts workshop*, K. Rodriguez and C. Blum, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 629–630.
- [Tho12] J. Thompson, “Trade-offs using gamid for the inference of dna motifs that are represented in only a subset of sequences of interest,” in *Tenth GECCO Undergraduate Student Workshop*, S. Goings, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 563–568.
- [Tin12] R. Tinós, “Analysing fitness landscape changes in evolutionary robots,” in *1st workshop on Understanding Problems (GECCO-UP)*, K. McClymont and E. Keedwell, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 385–392.
- [TLC⁺12] C.-W. Tsai, T.-Y. Lin, M.-C. Chiang, C.-S. Yang, and T.-P. Hong, “Continuous space pattern reduction for genetic clustering algorithm,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1475–1476.
- [TMLL12] L. Trujillo, Y. Martinez, E. G. Lopez, and P. Legrand, “A comparative study of an evolvability indicator and a predictor of expected performance for genetic programming,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1489–1490.
- [TS12] E. Tosch and L. Spector, “Achieving cosmos: a metric for determining when to give up and when to reach for the stars,” in *1st workshop on Understanding Problems (GECCO-*

- UP), K. McClymont and E. Keedwell, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 417–424.
- [Ver12] S. Verel, “Fitness landscapes and graphs: multimodularity, ruggedness and neutrality,” in *GECCO 2012 Advanced tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1013–1034.
- [vHV⁺12] R. R. van Lon, T. Holvoet, G. Vanden Berghe, T. Wenseleers, and J. Branke, “Evolutionary synthesis of multi-agent systems for dynamic dial-a-ride problems,” in *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, F. Stonedahl and R. Riolo, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 331–336.
- [VPP⁺12] C. Voglis, G. S. Piperagkas, K. E. Parsopoulos, D. G. Papageorgiou, and I. E. Lagaris, “Mempsode: an empirical assessment of local search algorithm impact on a memetic algorithm using noiseless testbed,” in *Black box optimization benchmarking 2012 (BBOB 2012)*, A. Auger, A. Chotard, N. Hansen, V. Heidrich-Meisner, O. Mersmann, P. Posik, and M. Preuss, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 245–252.
- [vTPD12] S. van Berkel, D. Turi, A. Pruteanu, and S. Dulman, “Automatic discovery of algorithms for multi-agent systems,” in *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, F. Stonedahl and R. Riolo, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 337–344.
- [WC12] C. J. Woodard and E. K. Clemons, “Modeling technology evolution using generalized genotype-phenotype maps,” in *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, F. Stonedahl and R. Riolo, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 323–330.
- [WFE12] D. Walker, J. Fieldsend, and R. Everson, “Visualising many-objective populations,” in *GECCO 2012 Visualisation methods for genetic and evolutionary computation (VizGEC)*, R. Everson, J. Fieldsend, and D. Walker, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 451–458.
- [Win12] M. Wineberg, “Statistical analysis for evolutionary computation: an introduction,” in *GECCO 2012 Advanced tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 895–916.
- [WK12] S. Wagner and G. Kronberger, “Algorithm and experiment design with heuristic lab: an open source optimization environment for research and education,” in *GECCO 2012 Specialized techniques and applications tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1287–1316.
- [WS12a] D. Whitley and A. Sutton, “Elementary landscapes: theory and applications,” in *GECCO 2012 Advanced tutorials*, G. Ochoa, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 941–960.
- [WS12b] J. R. Woodward and J. Swan, “The automatic generation of mutation operators for genetic algorithms,” in *GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms*, G. L. Pappa, J. Woodward, M. R. Hyde, and J. Swan, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 67–74.
- [YA12] K. Yeboah-Antwi, “Evolving software applications using genetic programming – pushcalc: the evolved calculator,” in *Tenth GECCO Undergraduate Student Workshop*, S. Goings, Ed. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 569–572.
- [YK12] D.-M. Yoon and K.-J. Kim, “Comparison of scoring methods for interactive evolutionary computation based image retouching system,” in *GECCO 2012 Late breaking abstracts workshop*, K. Rodriguez and C. Blum, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 617–618.

- [YNH12] O. Yefimochkin, R. Neves, and N. Horta, “An evolutionary approach to define investment strategies based on macroeconomic indicators and vix data,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1539–1540.
- [Zag12] S. Zaglauer, “The evolutionary algorithm samoa with use of dynamic constraints,” in *GECCO 2012 Late breaking abstracts workshop*, K. Rodriguez and C. Blum, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 635–636.
- [ZBBF⁺12] M. Zaefferer, T. Bartz-Beielstein, M. Friese, B. Naujoks, and O. Flasch, “Multi-criteria optimization for hard problems under limited budgets,” in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, and K. Deb, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 1451–1452.
- [ZKFH12] X.-F. Zhang, M. Koshimura, H. Fujita, and R. Hasegawa, “Hybrid particle swarm optimization and convergence analysis for scheduling problems,” in *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, F. Stonedahl and R. Riolo, Eds. Philadelphia, Pennsylvania, USA: ACM, 7-11 July 2012, pp. 307–314.