

Список литературы

- [Abdelbar & Wunsch(2012)] Abdelbar, A. M. & Wunsch, D. C. (2012). Improving the performance of max-min ant system on the tsp using stubborn ants. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1395–1396.
- [Aleb & Kechid(2012)] Aleb, N. & Kechid, S. (2012). A new framework for scalable genetic programming. In S. Gustafson & E. Vladislavleva (Eds.), *GECCO 2012 Symbolic regression and modeling workshop*. Philadelphia, Pennsylvania, USA: ACM, 487–492.
- [Alford *et al.*(2012)Alford, Adams, Shelton, Bryant, Kelly, & Dozier] Alford, A., Adams, J., Shelton, J., Bryant, K., Kelly, J., & Dozier, G. (2012). Analyzing the cross-generalization ability of a hybrid genetic & evolutionary application for multibiometric feature weighting and selection. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1521–1522.
- [Amiri *et al.*(2012)Amiri, Hossain, & Crowford] Amiri, B., Hossain, L., & Crowford, J. (2012). A multiobjective hybrid evolutionary algorithm for clustering in social networks. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1445–1446.
- [Auger & Hansen(2012)] Auger, A. & Hansen, N. (2012). Tutorial cma-es: evolution strategies and covariance matrix adaptation. In G. Ochoa (Ed.), *GECCO 2012 Advanced tutorials*. Philadelphia, Pennsylvania, USA: ACM, 827–848.
- [Bacardit & Llorà(2012)] Bacardit, J. & Llorà, X. (2012). Large scale data mining using genetics-based machine learning. In G. Ochoa (Ed.), *GECCO 2012 Specialized techniques and applications tutorials*. Philadelphia, Pennsylvania, USA: ACM, 1171–1196.
- [Baeck(2012)] Baeck, T. (2012). Evolution strategies: basic introduction. In G. Ochoa (Ed.), *GECCO 2012 Introductory tutorials*. Philadelphia, Pennsylvania, USA: ACM, 711–736.
- [Banerjee(2012)] Banerjee, A. (2012). Density-based evolutionary outlier detection. In K. Rodriguez & C. Blum (Eds.), *GECCO 2012 Late breaking abstracts workshop*. Philadelphia, Pennsylvania, USA: ACM, 651–652.
- [Bartoli *et al.*(2012)Bartoli, Davanzo, De Lorenzo, Mauri, Medvet, & Sorio] Bartoli, A., Davanzo, G., De Lorenzo, A., Mauri, M., Medvet, E., & Sorio, E. (2012). Automatic generation of regular expressions from examples with genetic programming. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of*

the fourteenth international conference on Genetic and evolutionary computation conference companion. Philadelphia, Pennsylvania, USA: ACM, 1477–1478.

- [Bartz-Beielstein *et al.*(2012)Bartz-Beielstein, Flasch, & Zaefferer] Bartz-Beielstein, T., Flasch, O., & Zaefferer, M. (2012). Sequential parameter optimization for symbolic regression. In S. Gustafson & E. Vladislavleva (Eds.), *GECCO 2012 Symbolic regression and modeling workshop*. Philadelphia, Pennsylvania, USA: ACM, 495–496.
- [Bazargani *et al.*(2012)Bazargani, Anjos, Lobo, Mollahosseini, & Shahbazkia] Bazargani, M., Anjos, A., Lobo, F., Mollahosseini, A., & Shahbazkia, H. (2012). Affine image registration transformation estimation using a real coded genetic algorithm with sbx. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1459–1460.
- [Bazzan(2012)] Bazzan, A. L. (2012). Co-evolution of the dynamics in population games: the case of traffic flow assignment. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1523–1524.
- [Beham *et al.*(2012)Beham, Pitzer, Wagner, Affenzeller, Altendorfer, Felberbauer, & Bäck] Beham, A., Pitzer, E., Wagner, S., Affenzeller, M., Altendorfer, K., Felberbauer, T., & Bäck, M. (2012). Integration of flexible interfaces in optimization software frameworks for simulation-based optimization. In S. Wagner & M. Affenzeller (Eds.), *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*. Philadelphia, Pennsylvania, USA: ACM, 125–132.
- [Behzadan & Smith(2012)] Behzadan, B. & Smith, R. E. (2012). An information-based approach towards neuro-evolution. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1491–1492.
- [Beliveau *et al.*(2012)Beliveau, Hornby, & Bongard] Beliveau, P., Hornby, G., & Bongard, J. (2012). Interactive simulated robot construction and controller evolution. In K. Rodriguez & C. Blum (Eds.), *GECCO 2012 Late breaking abstracts workshop*. Philadelphia, Pennsylvania, USA: ACM, 627–628.
- [Benbassat & Sipper(2012)] Benbassat, A. & Sipper, M. (2012). Evolving players that use selective game-tree search with genetic programming. In K. Rodriguez & C. Blum (Eds.), *GECCO 2012 Late breaking abstracts workshop*. Philadelphia, Pennsylvania, USA: ACM, 631–632.
- [Bernstein(2012)] Bernstein, O. (2012). Flea market simulator: a market simulator for experiments on the computational evolution of trading strategies for economic agents. In S. Goings (Ed.), *Tenth GECCO Undergraduate Student Workshop*. Philadelphia, Pennsylvania, USA: ACM, 549–554.
- [Bevilacqua *et al.*(2012)Bevilacqua, Filograno, Fiorentino, & Uva] Bevilacqua, V., Filograno, G., Fiorentino, M., & Uva, A. E. (2012). Early diagnosis of lung tumors by genetically optimized 3d-metaball malignancy metric. In S. L. Smith, S. Cagnoni, & R. M. Patton (Eds.), *GECCO 2012*

- [Bongard *et al.*(2012)Bongard, Beliveau, & Hornby] Bongard, J., Beliveau, P., & Hornby, G. (2012). Avoiding local optima with interactive evolutionary robotics. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1405–1406.
- [Brockhoff *et al.*(2012)Brockhoff, Auger, & Hansen] Brockhoff, D., Auger, A., & Hansen, N. (2012). On the effect of mirroring in the ipop active cma-es on the noiseless bbob testbed. In A. Auger, A. Chotard, N. Hansen, V. Heidrich-Meisner, O. Mersmann, P. Posik, & M. Preuss (Eds.), *Black box optimization benchmarking 2012 (BBOB 2012)*. Philadelphia, Pennsylvania, USA: ACM, 277–284.
- [Burjorjee(2012)] Burjorjee, K. (2012). Explaining adaptation in genetic algorithms with uniform crossover: the hyperclimbing hypothesis. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1461–1462.
- [Bush(2012)] Bush, W. S. (2012). Introduction to bioinformatics and computational biology. In G. Ochoa (Ed.), *GECCO 2012 Specialized techniques and applications tutorials*. Philadelphia, Pennsylvania, USA: ACM, 1141–1170.
- [Buzdalov & Sokolov(2012)] Buzdalov, M. & Sokolov, A. (2012). Evolving efsm solving a path-planning problem by genetic programming. In A. Motsinger-Reif (Ed.), *GECCO 2012 Graduate Students Workshop*. Philadelphia, Pennsylvania, USA: ACM, 591–594.
- [Byers *et al.*(2012)Byers, Cheng, & McKinley] Byers, C., Cheng, B., & McKinley, P. (2012). Exploring the evolution of internal control structure using digital enzymes. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1407–1408.
- [Cagnoni *et al.*(2012)Cagnoni, Cordón, Mesejo, Nashed, & Ugolotti] Cagnoni, S., Cordón, O., Mesejo, P., Nashed, Y. S., & Ugolotti, R. (2012). First results and future developments of the mibisoc project in the ibislab of the university of parma. In S. L. Smith, S. Cagnoni, & R. M. Patton (Eds.), *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*. Philadelphia, Pennsylvania, USA: ACM, 509–516.
- [Carneiro & Oliveira(2012)] Carneiro, M. G. & Oliveira, G. M. B. (2012). Synchronous cellular automata scheduler with construction heuristic to static task scheduling in multiprocessors. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark,

- G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1433–1434.
- [Castellini *et al.*(2012)Castellini, Manca, Zucchelli, & Busato] Castellini, A., Manca, V., Zucchelli, M., & Busato, M. (2012). A genetic approach for synthesizing metabolic models from time series. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1415–1416.
- [Cavalcante *et al.*(2012)Cavalcante, Aquino, Pappa, & Loureiro] Cavalcante, E. S., Aquino, A. L., Pappa, G. L., & Loureiro, A. A. (2012). Roadside unit deployment for information dissemination in a vanet: an evolutionary approach. In A.-A. Tantar, E. Tantar, & P. A. Bosman (Eds.), *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*. Philadelphia, Pennsylvania, USA: ACM, 27–34.
- [Celis & Bongard(2012)] Celis, S. E. & Bongard, J. (2012). Not all physics simulators can be wrong in the same way. In K. Rodriguez & C. Blum (Eds.), *GECCO 2012 Late breaking abstracts workshop*. Philadelphia, Pennsylvania, USA: ACM, 659–660.
- [Chen *et al.*(2012)Chen, Zhang, & Liu] Chen, N., Zhang, J., & Liu, O. (2012). Adaptive genetic algorithm based on density distribution of population. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1543–1544.
- [Chivilikhin *et al.*(2012)Chivilikhin, Ulyantsev, & Tsarev] Chivilikhin, D., Ulyantsev, V., & Tsarev, F. (2012). Test-based extended finite-state machines induction with evolutionary algorithms and ant colony optimization. In A. Motsinger-Reif (Ed.), *GECCO 2012 Graduate Students Workshop*. Philadelphia, Pennsylvania, USA: ACM, 603–606.
- [Chuang & Chen(2012)] Chuang, Y.-C. & Chen, C.-T. (2012). Black-box optimization benchmarking for noiseless function testbed using a direction-based rcga. In A. Auger, A. Chotard, N. Hansen, V. Heidrich-Meisner, O. Mersmann, P. Posik, & M. Preuss (Eds.), *Black box optimization benchmarking 2012 (BBOB 2012)*. Philadelphia, Pennsylvania, USA: ACM, 167–174.
- [Coello Coello(2012)] Coello Coello, C. A. (2012). Constraint-handling techniques used with evolutionary algorithms. In G. Ochoa (Ed.), *GECCO 2012 Advanced tutorials*. Philadelphia, Pennsylvania, USA: ACM, 849–872.
- [Coletti(2012)] Coletti, M. (2012). The effects of training set size and keeping rules on the emergent selection pressure of learnable evolution model. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1505–1506.
- [Collet & Harding(2012)] Collet, P. & Harding, S. (2012). Evolutionary algorithms and genetic programming on graphic processing units (gpu). In G. Ochoa (Ed.), *GECCO 2012 Specialized techniques and applications tutorials*. Philadelphia, Pennsylvania, USA: ACM, 1117–1138.

- [Comis Da Ronco & Benini(2012)] Comis Da Ronco, C. & Benini, E. (2012). Gedeaa-ii: a simplex-crossover based multi objective evolutionary algorithm including the genetic diversity as objective. In K. Rodriguez & C. Blum (Eds.), *GECCO 2012 Late breaking abstracts workshop*. Philadelphia, Pennsylvania, USA: ACM, 619–620.
- [Connelly *et al.*(2012)Connelly, Zaman, & McKinley] Connelly, B. D., Zaman, L., & McKinley, P. K. (2012). The seeds platform for evolutionary and ecological simulations. In S. Wagner & M. Affenzeller (Eds.), *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*. Philadelphia, Pennsylvania, USA: ACM, 133–140.
- [Correia *et al.*(2012)Correia, Machado, & Romero] Correia, J., Machado, P., & Romero, J. (2012). Improving haar cascade classifiers through the synthesis of new training examples. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1479–1480.
- [Darvish *et al.*(2012)Darvish, Rahnamayan, & Mohamad] Darvish, A., Rahnamayan, S., & Mohamad, Z. S. (2012). Interactive differential evolution for prostate ultrasound image thresholding. In S. L. Smith, S. Cagnoni, & R. M. Patton (Eds.), *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*. Philadelphia, Pennsylvania, USA: ACM, 501–508.
- [De Jong(2012)] De Jong, K. (2012). Evolutionary computation: a unified approach. In G. Ochoa (Ed.), *GECCO 2012 Introductory tutorials*. Philadelphia, Pennsylvania, USA: ACM, 737–750.
- [de Melo(2012)] de Melo, V. V. (2012). Benchmarking the multi-view differential evolution on the noiseless bbo-2012 function testbed. In A. Auger, A. Chotard, N. Hansen, V. Heidrich-Meisner, O. Mersmann, P. Posik, & M. Preuss (Eds.), *Black box optimization benchmarking 2012 (BBOB 2012)*. Philadelphia, Pennsylvania, USA: ACM, 183–188.
- [de Oliveira Barros *et al.*(2012)de Oliveira Barros, Costa, Figueiredo, & Cavalcanti da Rocha] de Oliveira Barros, M., Costa, H. R., Figueiredo, F. V., & Cavalcanti da Rocha, A. R. (2012). Multiobjective optimization for project portfolio selection. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1541–1542.
- [De Rainville *et al.*(2012)De Rainville, Fortin, Gardner, Parizeau, & Gagné] De Rainville, F.-M., Fortin, F.-A., Gardner, M.-A., Parizeau, M., & Gagné, C. (2012). Deap: a python framework for evolutionary algorithms. In S. Wagner & M. Affenzeller (Eds.), *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*. Philadelphia, Pennsylvania, USA: ACM, 85–92.
- [Dobslaw(2012)] Dobslaw, F. (2012). Input: the intelligent parameter utilization tool. In S. Wagner & M. Affenzeller (Eds.), *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*. Philadelphia, Pennsylvania, USA: ACM, 149–156.
- [Doerr(2012)] Doerr, B. (2012). Black-box complexity: from complexity theory to playing mastermind. In G. Ochoa (Ed.), *GECCO 2012 Specialized techniques and applications tutorials*. Philadelphia, Pennsylvania, USA: ACM, 1079–1092.
- [Doncieux *et al.*(2012)Doncieux, Jin, & Mouret] Doncieux, S., Jin, Y., & Mouret, J.-B. (2012). Evo-devo-robo workshop program. In S. Doncieux, Y. Jin, & J.-B. Mouret (Eds.), *GECCO 2012 Evolutionary developmental robotics*. Philadelphia, Pennsylvania, USA: ACM, 355–356.

- [Dumas *et al.*(2012)Dumas, Boutouyrie, & Bozec] Dumas, L., Boutouyrie, P., & Bozec, E. (2012). An optimal reconstruction of the human arterial tree from doppler echotracking measurements. In S. L. Smith, S. Cagnoni, & R. M. Patton (Eds.), *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*. Philadelphia, Pennsylvania, USA: ACM, 517–522.
- [Ellabaan & Ong(2012)] Ellabaan, M. M. H. & Ong, Y. S. (2012). Experiences on memetic computation for locating transition states in biochemical applications. In K. Rodriguez & C. Blum (Eds.), *GECCO 2012 Late breaking abstracts workshop*. Philadelphia, Pennsylvania, USA: ACM, 623–624.
- [English *et al.*(2012)English, Petruso, & Wang] English, A., Petruso, H., & Wang, C. (2012). Grammatical evolution decision trees for trio designs. In S. Goings (Ed.), *Tenth GECCO Undergraduate Student Workshop*. Philadelphia, Pennsylvania, USA: ACM, 559–562.
- [Fagan *et al.*(2012)Fagan, Hemberg, Nicolau, O’Neill, & McGarraghy] Fagan, D., Hemberg, E., Nicolau, M., O’Neill, M., & McGarraghy, S. (2012). Towards adaptive mutation in grammatical evolution. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1481–1482.
- [Fernandes *et al.*(2012)Fernandes, Mora, Merelo, Fernández, & Rosa] Fernandes, C. M., Mora, A., Merelo, J. J., Fernández, F., & Rosa, A. (2012). Generating colored 2-dimensional representations of sleep eeg with the kants clustering algorithm. In R. Everson, J. Fieldsend, & D. Walker (Eds.), *GECCO 2012 Visualisation methods for genetic and evolutionary computation (VizGEC)*. Philadelphia, Pennsylvania, USA: ACM, 435–442.
- [Fonlupt & Robilliard(2012)] Fonlupt, C. & Robilliard, D. (2012). Combining programs to counter code disruption. In K. Rodriguez & C. Blum (Eds.), *GECCO 2012 Late breaking abstracts workshop*. Philadelphia, Pennsylvania, USA: ACM, 643–644.
- [Forrest & LeGoues(2012)] Forrest, S. & LeGoues, C. (2012). Evolutionary software repair. In G. Ochoa (Ed.), *GECCO 2012 Specialized techniques and applications tutorials*. Philadelphia, Pennsylvania, USA: ACM, 1345–1348.
- [Fredivianus *et al.*(2012)Fredivianus, Kara, & Schmeck] Fredivianus, N., Kara, K., & Schmeck, H. (2012). Stay real!: Xcs with rule combining for real values. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1493–1494.
- [Fu *et al.*(2012)Fu, Johnston, & Zhang] Fu, W., Johnston, M., & Zhang, M. (2012). Genetic programming for edge detection based on figure of merit. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion ’12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1483–1484.

- [Gagne(2012)] Gagne, D. J. (2012). Gamiv: a genetic algorithm for identifying variable-length motifs in noncoding dna. In S. Goings (Ed.), *Tenth GECCO Undergraduate Student Workshop*. Philadelphia, Pennsylvania, USA: ACM, 555–558.
- [Gao & Lv(2012)] Gao, Y. & Lv, D. (2012). Principal coordinate strategy: a novel adaptive control strategy for differential evolution. In S. Goings (Ed.), *Tenth GECCO Undergraduate Student Workshop*. Philadelphia, Pennsylvania, USA: ACM, 573–578.
- [García *et al.*(2012)]García, Gutiérrez, Velázquez, Ponsich, Ángel Gutiérrez Andrade, & De Los Cobos Silva] García, E. R., Gutiérrez, R. M., Velázquez, P. L., Ponsich, A., Ángel Gutiérrez Andrade, M., & De Los Cobos Silva, S. (2012). A discrete artificial bee colony algorithm for the multi-objective redistricting problem. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1439–1440.
- [Garrett(2012)] Garrett, D. (2012). A call for collaborative landscape analysis. In K. McClymont & E. Keedwell (Eds.), *1st workshop on Understanding Problems (GECCO-UP)*. Philadelphia, Pennsylvania, USA: ACM, 409–416.
- [Goldman & Tauritz(2012)] Goldman, B. W. & Tauritz, D. R. (2012). Supportive coevolution. In G. L. Pappa, J. Woodward, M. R. Hyde, & J. Swan (Eds.), *GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms*. Philadelphia, Pennsylvania, USA: ACM, 59–66.
- [Gomez *et al.*(2012)]Gomez, Koutník, & Schmidhuber] Gomez, F., Koutník, J., & Schmidhuber, J. (2012). Complexity search for compressed neural networks. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1455–1456.
- [Goodman(2012)] Goodman, E. D. (2012). Introduction to genetic algorithms. In G. Ochoa (Ed.), *GECCO 2012 Introductory tutorials*. Philadelphia, Pennsylvania, USA: ACM, 671–692.
- [Gullo *et al.*(2012)]Gullo, Talukder, Luke, Domeniconi, & Tagarelli] Gullo, F., Talukder, A. K., Luke, S., Domeniconi, C., & Tagarelli, A. (2012). Multiobjective optimization of co-clustering ensembles. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1495–1496.
- [Han(2012)] Han, S. (2012). Batting order optimization by genetic algorithm. In A. Motsinger-Reif (Ed.), *GECCO 2012 Graduate Students Workshop*. Philadelphia, Pennsylvania, USA: ACM, 599–602.
- [Harrington *et al.*(2012)]Harrington, Spector, Pollack, & O'Reilly] Harrington, K. I., Spector, L., Pollack, J. B., & O'Reilly, U.-M. (2012). Autoconstructive evolution for structural problems. In G. L. Pappa, J. Woodward, M. R. Hyde, & J. Swan (Eds.), *GECCO 2012 2nd Workshop on*

- [Helmi *et al.*(2012)Helmi, Pelikan, & Rahmani] Helmi, B. H., Pelikan, M., & Rahmani, A. T. (2012). Linkage learning using the maximum spanning tree of the dependency graph. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1429–1430.
- [Helmuth & Spector(2012)] Helmuth, T. & Spector, L. (2012). Empirical investigation of size-based tournaments for node selection in genetic programming. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1485–1486.
- [Hemberg *et al.*(2012)Hemberg, Veeramachaneni, & O'Reilly] Hemberg, E., Veeramachaneni, K., & O'Reilly, U.-M. (2012). Graphical models and what they reveal about gp when it solves a symbolic regression problem. In S. Gustafson & E. Vladislavleva (Eds.), *GECCO 2012 Symbolic regression and modeling workshop*. Philadelphia, Pennsylvania, USA: ACM, 493–494.
- [Ho & Yu(2012)] Ho, T.-Y. & Yu, T.-L. (2012). A linkage-learning niching in estimation of distribution algorithm. In K. Rodriguez & C. Blum (Eds.), *GECCO 2012 Late breaking abstracts workshop*. Philadelphia, Pennsylvania, USA: ACM, 649–650.
- [Hoover *et al.*(2012)Hoover, Marceau, Harris, Reif, & Motsinger-Reif] Hoover, K., Marceau, R., Harris, T., Reif, D., & Motsinger-Reif, A. (2012). A comparison of ge optimized neural networks and decision trees. In A. Motsinger-Reif (Ed.), *GECCO 2012 Graduate Students Workshop*. Philadelphia, Pennsylvania, USA: ACM, 611–614.
- [Hsueh & Yu(2012)] Hsueh, C.-H. & Yu, T.-L. (2012). Affective content based music video paring system using real coded ga. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1427–1428.
- [hui Zhan & Zhang(2012)] hui Zhan, Z. & Zhang, J. (2012). Enhance differential evolution with random walk. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1513–1514.
- [Hutterer *et al.*(2012)Hutterer, Affenzeller, & Auinger] Hutterer, S., Affenzeller, M., & Auinger, F. (2012). Evolutionary optimization of multi-agent controlstrategies for electric vehicle charging.

- In A.-A. Tantar, E. Tantar, & P. A. Bosman (Eds.), *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*. Philadelphia, Pennsylvania, USA: ACM, 3–10.
- [Iclanzan *et al.*(2012)Iclanzan, Gaskó, & Dumitrescu] Iclanzan, D., Gaskó, N., & Dumitrescu, D. (2012). Evolving mixed nash equilibria for bimatrix games. In K. Rodriguez & C. Blum (Eds.), *GECCO 2012 Late breaking abstracts workshop*. Philadelphia, Pennsylvania, USA: ACM, 655–656.
- [Ismail *et al.*(2012)Ismail, Legras, & Coppin] Ismail, S. B., Legras, F., & Coppin, G. (2012). A new interactive evolutionary algorithm for the vehicle routing problem. In K. Rodriguez & C. Blum (Eds.), *GECCO 2012 Late breaking abstracts workshop*. Philadelphia, Pennsylvania, USA: ACM, 661–668.
- [Jansen & Zarges(2012)] Jansen, T. & Zarges, C. (2012). Artificial immune systems for optimisation. In G. Ochoa (Ed.), *GECCO 2012 Specialized techniques and applications tutorials*. Philadelphia, Pennsylvania, USA: ACM, 1059–1078.
- [Jebari *et al.*(2012)Jebari, Bouroumi, & Ettouhami] Jebari, K., Bouroumi, A., & Ettouhami, A. (2012). Genetic fuzzy rules for dops. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1507–1508.
- [Jimbo & Craven(2012)] Jimbo, H. C. & Craven, M. J. (2012). A dynamical model of cancer chemotherapy with disturbance. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1417–1418.
- [Joachimczak *et al.*(2012)Joachimczak, Kowaliw, Doursat, & Wróbel] Joachimczak, M., Kowaliw, T., Doursat, R., & Wróbel, B. (2012). Evolving morphologies and controllers for soft-bodied multicellular animats using gene regulatory networks and artificial embryogenesis. In S. Doncieux, Y. Jin, & J.-B. Mouret (Eds.), *GECCO 2012 Evolutionary developmental robotics*. Philadelphia, Pennsylvania, USA: ACM, 357–360.
- [Julstrom(2012)] Julstrom, B. A. (2012). Clans and cooperation in the iterated prisoner’s dilemma. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1463–1464.
- [Kaliakatsos-Papakostas *et al.*(2012)Kaliakatsos-Papakostas, Floros, Kanellopoulos, & Vrahatis] Kaliakatsos-Papakostas, M. A., Floros, A., Kanellopoulos, N., & Vrahatis, M. N. (2012). Genetic evolution of l and fl-systems for the production of rhythmic sequences. In F. Fernandez de Vega & C. Cotta (Eds.), *GECCO 2012 Evolutionary music*. Philadelphia, Pennsylvania, USA: ACM, 461–468.

- [Kattan & Fatima(2012)] Kattan, A. & Fatima, S. (2012). Evolving optimal agendas and strategies for negotiation in dynamic environments: a surrogate based approach. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1435–1436.
- [Kim & Moon(2012)] Kim, J. & Moon, B.-R. (2012). New malware detection system using metric-based method and hybrid genetic algorithm. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1527–1528.
- [Knudson & Tumer(2012)] Knudson, M. & Tumer, K. (2012). Policy transfer in mobile robots using neuro-evolutionary navigation. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1411–1412.
- [Komiya *et al.*(2012)] Komiya, Noman, & Iba] Komiya, K., Noman, N., & Iba, H. (2012). The search for robust topologies of oscillatory gene regulatory networks by evolutionary computation. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1419–1420.
- [Kommenda *et al.*(2012)] Kommenda, Kronberger, Wagner, Winkler, & Affenzeller] Kommenda, M., Kronberger, G., Wagner, S., Winkler, S., & Affenzeller, M. (2012). On the architecture and implementation of tree-based genetic programming in heuristiclab. In S. Wagner & M. Affenzeller (Eds.), *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*. Philadelphia, Pennsylvania, USA: ACM, 101–108.
- [Kotanchek(2012)] Kotanchek, M. (2012). Robust function discovery and feature selection for life sciences and engineering. In S. Gustafson & E. Vladislavleva (Eds.), *GECCO 2012 Symbolic regression and modeling workshop*. Philadelphia, Pennsylvania, USA: ACM, 497–498.
- [Krawiec & Pawlak(2012)] Krawiec, K. & Pawlak, T. (2012). Locally geometric semantic crossover. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1487–1488.

- [Kromer *et al.*(2012)Kromer, Prokop, Snasel, Misak, Platos, & Abraham] Kromer, P., Prokop, L., Snasel, V., Misak, S., Platos, J., & Abraham, A. (2012). Evolutionary prediction of photovoltaic power plant energy production. In A.-A. Tantar, E. Tantar, & P. A. Bosman (Eds.), *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*. Philadelphia, Pennsylvania, USA: ACM, 35–42.
- [Kuehn(2012)] Kuehn, T. J. (2012). Evolutionary fabrication: a system of autonomous invention. In S. Goings (Ed.), *Tenth GECCO Undergraduate Student Workshop*. Philadelphia, Pennsylvania, USA: ACM, 579–584.
- [Lee *et al.*(2012)Lee, Teng, & Hsiao] Lee, P., Teng, Y., & Hsiao, T.-C. (2012). Xcsf for prediction on emotion induced by image based on dimensional theory of emotion. In D. Loiacono, A. Orriols-Puig, & R. Urbanowicz (Eds.), *Fifteenth international workshop on learning classifier systems (ICWLS)*. Philadelphia, Pennsylvania, USA: ACM, 375–382.
- [Lehre(2012)] Lehre, P. K. (2012). Drift analysis. In G. Ochoa (Ed.), *GECCO 2012 Specialized techniques and applications tutorials*. Philadelphia, Pennsylvania, USA: ACM, 1239–1258.
- [Liao *et al.*(2012)Liao, Molina, Stutzle, Montes de Oca, & Dorigo] Liao, T., Molina, D., Stutzle, T., Montes de Oca, M. A., & Dorigo, M. (2012). An aco algorithm benchmarked on the bbob noiseless function testbed. In A. Auger, A. Chotard, N. Hansen, V. Heidrich-Meisner, O. Mersmann, P. Posik, & M. Preuss (Eds.), *Black box optimization benchmarking 2012 (BBOB 2012)*. Philadelphia, Pennsylvania, USA: ACM, 159–166.
- [Loiacono & Preuß(2012)] Loiacono, D. & Preuß, M. (2012). Computational intelligence in games. In G. Ochoa (Ed.), *GECCO 2012 Specialized techniques and applications tutorials*. Philadelphia, Pennsylvania, USA: ACM, 1139–1140.
- [long Li *et al.*(2012)long Li, Zhang, & neng Chen] long Li, Y., Zhang, J., & neng Chen, W. (2012). Differential evolution algorithm with pca-based crossover. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1509–1510.
- [Longo *et al.*(2012)Longo, Montévil, & Kauffman] Longo, G., Montévil, M., & Kauffman, S. (2012). No entailing laws, but enablement in the evolution of the biosphere. In J. H. Moore (Ed.), *GECCO 2012 Keynote talks*. Philadelphia, Pennsylvania, USA: ACM, 1379–1392.
- [López-Camacho *et al.*(2012)López-Camacho, Terashima-Marín, & Conant-Pablos] López-Camacho, E., Terashima-Marín, H., & Conant-Pablos, S. E. (2012). The impact of the bin packing problem structure in hyper-heuristic performance. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1545–1546.
- [Loshchilov *et al.*(2012)Loshchilov, Schoenauer, & Sebag] Loshchilov, I., Schoenauer, M., & Sebag, M. (2012). Black-box optimization benchmarking of ipop-saacm-es and bipop-saacm-es on the bbob-2012 noiseless testbed. In A. Auger, A. Chotard, N. Hansen, V. Heidrich-Meisner, O. Mersmann, P. Posik, & M. Preuss (Eds.), *Black box optimization benchmarking 2012 (BBOB 2012)*. Philadelphia, Pennsylvania, USA: ACM, 175–182.

- [Lourenço *et al.*(2012)Lourenço, Pereira, & Costa] Lourenço, N., Pereira, F., & Costa, E. (2012). Evolving evolutionary algorithms. In G. L. Pappa, J. Woodward, M. R. Hyde, & J. Swan (Eds.), *GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms*. Philadelphia, Pennsylvania, USA: ACM, 51–58.
- [Mani *et al.*(2012)Mani, Srivastava, Sinha, & Mani] Mani, N., Srivastava, G., Sinha, A. K., & Mani, A. (2012). An evaluation of cellular population model for improving quantum-inspired evolutionary algorithm. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1437–1438.
- [Manukyan *et al.*(2012)Manukyan, Eppstein, Horbar, Leahy, Kenny, Mukherjee, & Rizzo] Manukyan, N., Eppstein, M. J., Horbar, J. D., Leahy, K. A., Kenny, M. J., Mukherjee, S., & Rizzo, D. M. (2012). Evolutionary mining for multivariate associations in large time-varying data sets: a healthcare network application. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1547–1548.
- [Marvel & Motsinger-Reif(2012)] Marvel, S. & Motsinger-Reif, A. (2012). Grammatical evolution support vector machines for predicting human genetic disease association. In A. Motsinger-Reif (Ed.), *GECCO 2012 Graduate Students Workshop*. Philadelphia, Pennsylvania, USA: ACM, 595–598.
- [Matoso *et al.*(2012)Matoso, Junior, Pereira, Veloso, & Wagner Meira] Matoso, L., Junior, F., Pereira, A., Veloso, A., & Wagner Meira, J. (2012). New evolutionary approaches to high-dimensional data. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1447–1448.
- [Maturana *et al.*(2012)Maturana, Vergara, Rojas, Saubion, Vargas, & Vidal] Maturana, J., Vergara, F., Rojas, C., Saubion, F., Vargas, F., & Vidal, D. (2012). Improving clonal colony optimization to evolve robust solutions. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1511–1512.
- [McClymont *et al.*(2012)McClymont, Walker, & Dupenois] McClymont, K., Walker, D., & Dupenois, M. (2012). The lay of the land: a brief survey of problem understanding. In K. McClymont & E. Keedwell (Eds.), *1st workshop on Understanding Problems (GECCO-UP)*. Philadelphia, Pennsylvania, USA: ACM, 425–432.

- [Merelo *et al.*(2012)Merelo, Fernandes, Mora, & Esparcia] Merelo, J. J., Fernandes, C. M., Mora, A. M., & Esparcia, A. I. (2012). Sofea: a pool-based framework for evolutionary algorithms using couchdb. In S. Wagner & M. Affenzeller (Eds.), *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*. Philadelphia, Pennsylvania, USA: ACM, 109–116.
- [Merelo-Guervós *et al.*(2012)Merelo-Guervós, Mora, Esparcia, & Fernandes] Merelo-Guervós, J.-J., Mora, A. M., Esparcia, A. I., & Fernandes, C. M. (2012). Validating design choices in a pool-based distributed evolutionary algorithms architecture. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1517–1518.
- [Miller & Harding(2012)] Miller, J. F. & Harding, S. (2012). Gecco 2012 tutorial: cartesian genetic programming. In G. Ochoa (Ed.), *GECCO 2012 Specialized techniques and applications tutorials*. Philadelphia, Pennsylvania, USA: ACM, 1093–1116.
- [Mlakar *et al.*(2012)Mlakar, Tuar, & Filipić] Mlakar, M., Tuar, T., & Filipić, B. (2012). Discrete vs. continuous multiobjective optimization of continuous casting of steel. In A. Motsinger-Reif (Ed.), *GECCO 2012 Graduate Students Workshop*. Philadelphia, Pennsylvania, USA: ACM, 587–590.
- [Moraglio(2012)] Moraglio, A. (2012). Geometry of evolutionary algorithms. In G. Ochoa (Ed.), *GECCO 2012 Specialized techniques and applications tutorials*. Philadelphia, Pennsylvania, USA: ACM, 1317–1344.
- [Mukherjee & Eppstein(2012)] Mukherjee, S. & Eppstein, M. J. (2012). Differential evolution of constants in genetic programming improves efficacy and bloat. In K. Rodriguez & C. Blum (Eds.), *GECCO 2012 Late breaking abstracts workshop*. Philadelphia, Pennsylvania, USA: ACM, 625–626.
- [Nashed *et al.*(2012)Nashed, Ugolotti, Mesejo, & Cagnoni] Nashed, Y. S., Ugolotti, R., Mesejo, P., & Cagnoni, S. (2012). libcudaoptimize: an open source library of gpu-based metaheuristics. In S. Wagner & M. Affenzeller (Eds.), *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*. Philadelphia, Pennsylvania, USA: ACM, 117–124.
- [Nasir *et al.*(2012)Nasir, Sengupta, Das, & Das] Nasir, M., Sengupta, S., Das, S., & Das, S. (2012). Configuration of sensors on a 3-d terrain: an approach based on evolutionary multi-objective optimization. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1443–1444.
- [Neumann & Witt(2012)] Neumann, F. & Witt, C. (2012). Bioinspired computation in combinatorial optimization: algorithms and their computational complexity. In G. Ochoa (Ed.), *GECCO 2012 Advanced tutorials*. Philadelphia, Pennsylvania, USA: ACM, 1035–1058.
- [Nobile *et al.*(2012)Nobile, Besozzi, Cazzaniga, Mauri, & Pescini] Nobile, M. S., Besozzi, D., Cazzaniga, P., Mauri, G., & Pescini, D. (2012). Estimating reaction constants in stochastic biological systems with a multi-swarm pso running on gpus. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa,

- F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1421–1422.
- [Noroozi *et al.*(2012)Noroozi, Hashemi, & Meybodi] Noroozi, V., Hashemi, A. B., & Meybodi, M. R. (2012). Alpinist cellularde: a cellular based optimization algorithm for dynamic environments. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1519–1520.
- [Nourashrafeddin *et al.*(2012)Nourashrafeddin, Arnold, & Milios] Nourashrafeddin, S., Arnold, D., & Milios, E. (2012). An evolutionary subspace clustering algorithm for high-dimensional data. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1497–1498.
- [Ochoa(2012)] Ochoa, G. (2012). Hyper-heuristics and cross-domain optimization. In G. Ochoa (Ed.), *GECCO 2012 Specialized techniques and applications tutorials*. Philadelphia, Pennsylvania, USA: ACM, 1197–1214.
- [Oliwa & Rasheed(2012)] Oliwa, T. & Rasheed, K. (2012). A surrogate-assisted and informed linkage aware ga. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1467–1468.
- [Ollion *et al.*(2012)Ollion, Pinville, & Doncieux] Ollion, C., Pinville, T., & Doncieux, S. (2012). Emergence of memory in neuroevolution: impact of selection pressures. In S. Doncieux, Y. Jin, & J.-B. Mouret (Eds.), *GECCO 2012 Evolutionary developmental robotics*. Philadelphia, Pennsylvania, USA: ACM, 369–372.
- [Ono & Nakayama(2012)] Ono, S. & Nakayama, S. (2012). User-system cooperative evolution for japanese anagram sentence generation. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1529–1530.
- [O'Reilly(2012)] O'Reilly, U.-M. (2012). Genetic programming: a tutorial introduction. In G. Ochoa (Ed.), *GECCO 2012 Introductory tutorials*. Philadelphia, Pennsylvania, USA: ACM, 693–710.
- [Otero *et al.*(2012)Otero, Castle, & Johnson] Otero, F., Castle, T., & Johnson, C. (2012). Epochx: genetic programming in java with statistics and event monitoring. In S. Wagner & M. Affenzeller (Eds.), *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*. Philadelphia, Pennsylvania, USA: ACM, 93–100.

- [Ozisk & Harrington(2012)] Ozisk, A. P. & Harrington, K. I. (2012). The effects of tags on the evolution of honest signaling. In F. Stonedahl & R. Riolo (Eds.), *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*. Philadelphia, Pennsylvania, USA: ACM, 345–352.
- [Padhye(2012)] Padhye, N. (2012). Evolutionary approaches for real world applications in 21st century. In N. Padhye, A. Baughman, S. Van Der Stock, M. Perlitz, S. M. Gustafson, & J. Jesneck (Eds.), *GECCO 2012 Real world applications of evolutionary computation*. Philadelphia, Pennsylvania, USA: ACM, 43–48.
- [Palafox & Hitoshi(2012)] Palafox, L. & Hitoshi, I. (2012). Gene regulatory network reverse engineering using population based incremental learning and k-means. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1423–1424.
- [Palmer & Chou(2012)] Palmer, M. E. & Chou, A. K. (2012). An artificial visual cortex drives behavioral evolution in co-evolved predator and prey robots. In S. Doncieux, Y. Jin, & J.-B. Mouret (Eds.), *GECCO 2012 Evolutionary developmental robotics*. Philadelphia, Pennsylvania, USA: ACM, 361–364.
- [Pascalie *et al.*(2012)Pascalie, Lobjois, Luga, Ducommun, & Duthen] Pascalie, J., Lobjois, V., Luga, H., Ducommun, B., & Duthen, Y. (2012). Checkpoint oriented cell-cycle simulation: critical role for age distribution initialization. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1425–1426.
- [Pelikan(2012)] Pelikan, M. (2012). Probabilistic model-building genetic algorithms. In G. Ochoa (Ed.), *GECCO 2012 Introductory tutorials*. Philadelphia, Pennsylvania, USA: ACM, 777–804.
- [Phan *et al.*(2012)Phan, Suzuki, Carroll, Balasubramaniam, Donnelly, & Botvich] Phan, D. H., Suzuki, J., Carroll, R., Balasubramaniam, S., Donnelly, W., & Botvich, D. (2012). Evolutionary multiobjective optimization for green clouds. In A.-A. Tantar, E. Tantar, & P. A. Bosman (Eds.), *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*. Philadelphia, Pennsylvania, USA: ACM, 19–26.
- [Pilat & Neruda(2012)] Pilat, M. & Neruda, R. (2012). A surrogate multiobjective evolutionary strategy with local search and pre-selection. In K. Rodriguez & C. Blum (Eds.), *GECCO 2012 Late breaking abstracts workshop*. Philadelphia, Pennsylvania, USA: ACM, 633–634.
- [Pinto & Horta(2012)] Pinto, J. & Horta, N. (2012). Automated passive filter design using multi-objective genetic algorithms with variable parameters. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1531–1532.

- [Pitzer *et al.*(2012)Pitzer, Beham, & Affenzeller] Pitzer, E., Beham, A., & Affenzeller, M. (2012). Generic hardness estimation using fitness and parameter landscapes applied to robust taboo search and the quadratic assignment problem. In K. McClymont & E. Keedwell (Eds.), *1st workshop on Understanding Problems (GECCO-UP)*. Philadelphia, Pennsylvania, USA: ACM, 393–400.
- [Poařk & Klema(2012)] Poařk, P. & Klema, V. (2012). Benchmarking the differential evolution with adaptive encoding on noiseless functions. In A. Auger, A. Chotard, N. Hansen, V. Heidrich-Meisner, O. Mersmann, P. Posik, & M. Preuss (Eds.), *Black box optimization benchmarking 2012 (BBOB 2012)*. Philadelphia, Pennsylvania, USA: ACM, 189–196.
- [Porta & Julstrom(2012)] Porta, M. & Julstrom, B. A. (2012). Evolving instances of unconstrained binary quadratic programming that challenge a tabu search heuristic. In K. Rodriguez & C. Blum (Eds.), *GECCO 2012 Late breaking abstracts workshop*. Philadelphia, Pennsylvania, USA: ACM, 639–640.
- [Quiroz *et al.*(2012)Quiroz, Banerjee, & Louis] Quiroz, J. C., Banerjee, A., & Louis, S. J. (2012). 3-d modeling using collaborative evolution. In K. Rodriguez & C. Blum (Eds.), *GECCO 2012 Late breaking abstracts workshop*. Philadelphia, Pennsylvania, USA: ACM, 653–654.
- [Rafael *et al.*(2012)Rafael, Affenzeller, & Wagner] Rafael, B., Affenzeller, M., & Wagner, S. (2012). An adaption of the schema theorem to various crossover and mutation operators for a music segmentation problem. In F. Fernandez de Vega & C. Cotta (Eds.), *GECCO 2012 Evolutionary music*. Philadelphia, Pennsylvania, USA: ACM, 469–476.
- [Rajasekhar *et al.*(2012)Rajasekhar, Das, & Das] Rajasekhar, A., Das, S., & Das, S. (2012). muabc: a micro artificial bee colony algorithm for large scale global optimization. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1399–1400.
- [Rand *et al.*(2012)Rand, Tantar, Tantar, Bosman, Padhye, Baughman, Van Der Stock, Perlitz, Gustafson, Jesneck, Papp] Rand, B., Tantar, A.-A., Tantar, E., Bosman, P. A., Padhye, N., Baughman, A., Van Der Stock, S., Perlitz, M., Gustafson, S. M., Jesneck, J., Pappa, G. L., Woodward, J., Hyde, M. R., Swan, J., Wagner, S., Affenzeller, M., Auger, A., Chotard, A., Hansen, N., Heidrich-Meisner, V., Mersmann, O., Posik, P., Preuss, M., Stonedahl, F., Riolo, R., Doncieux, S., Jin, Y., Mouret, J.-B., Loiacono, D., Orriols-Puig, A., Urbanowicz, R., McClymont, K., Keedwell, E., Everson, R., Fieldsend, J., Walker, D., Fernandez de Vega, F., Cotta, C., Gustafson, S., Vladislavleva, E., Smith, S. L., Cagnoni, S., Patton, R. M., Goings, S., Motsinger-Reif, A., Rodriguez, K., Blum, C., Ochoa, G., & Moore, J. H. (Eds.) (2012). *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA.
- [Ranjeet *et al.*(2012)Ranjeet, Hingston, Lam, & Masek] Ranjeet, T., Hingston, P., Lam, C. P., & Masek, M. (2012). Evaluating coevolution on a multimodal problem. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1469–1470.
- [Raway *et al.*(2012)Raway, Schaffer, Kurtz, & Sayama] Raway, T., Schaffer, D. J., Kurtz, K. J., & Sayama, H. (2012). Evolving data sets to highlight the performance differences between machine

- learning classifiers. In K. Rodriguez & C. Blum (Eds.), *GECCO 2012 Late breaking abstracts workshop*. Philadelphia, Pennsylvania, USA: ACM, 657–658.
- [Regis(2012)] Regis, R. G. (2012). Surrogate-assisted evolutionary programming for high dimensional constrained black-box optimization. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1431–1432.
- [Reis et al.(2012)Reis, Fernández, & Ferreira] Reis, G., Fernández, F., & Ferreira, A. (2012). Evolutionary algorithms and automatic transcription of music. In F. Fernandez de Vega & C. Cotta (Eds.), *GECCO 2012 Evolutionary music*. Philadelphia, Pennsylvania, USA: ACM, 477–484.
- [Richard & Majercik(2012)] Richard, W. K. & Majercik, S. M. (2012). Swarm-based path creation in dynamic environments for search and rescue. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1401–1402.
- [Rieffel & Smith(2012)] Rieffel, J. & Smith, S. (2012). Growing and evolving soft robots with a face-encoding tetrahedral grammar. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1457–1458.
- [Rocki & Suda(2012)] Rocki, K. & Suda, R. (2012). An efficient gpu implementation of a multi-start tsp solver for large problem instances. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1441–1442.
- [Rogalsky(2012)] Rogalsky, T. (2012). Bezier control parameterization for evolutionary optimization in disease models. In S. L. Smith, S. Cagnoni, & R. M. Patton (Eds.), *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*. Philadelphia, Pennsylvania, USA: ACM, 523–530.
- [Rothlauf(2012)] Rothlauf, F. (2012). Representations for evolutionary algorithms. In G. Ochoa (Ed.), *GECCO 2012 Advanced tutorials*. Philadelphia, Pennsylvania, USA: ACM, 873–894.
- [Rowe(2012)] Rowe, J. E. (2012). Genetic algorithm theory. In G. Ochoa (Ed.), *GECCO 2012 Advanced tutorials*. Philadelphia, Pennsylvania, USA: ACM, 917–940.

- [Rudinac *et al.*(2012)Rudinac, Lenseigne, & Jonker] Rudinac, M., Lenseigne, B., & Jonker, P. P. (2012). Empirical mode decomposition for saliency detection. In S. Doncieux, Y. Jin, & J.-B. Mouret (Eds.), *GECCO 2012 Evolutionary developmental robotics*. Philadelphia, Pennsylvania, USA: ACM, 365–368.
- [Ryerkerk *et al.*(2012)Ryerkerk, Averill, Deb, & Goodman] Ryerkerk, M., Averill, R., Deb, K., & Goodman, E. (2012). Meaningful representation and recombination of variable length genomes. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1471–1472.
- [Santana *et al.*(2012)Santana, Mendiburu, & Lozano] Santana, R., Mendiburu, A., & Lozano, J. (2012). Evolving nk-complexity for evolutionary solvers. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1473–1474.
- [Schaul(2012)] Schaul, T. (2012). Benchmarking separable natural evolution strategies on the noiseless and noisy black-box optimization testbeds. In A. Auger, A. Chotard, N. Hansen, V. Heidrich-Meisner, O. Mersmann, P. Posik, & M. Preuss (Eds.), *Black box optimization benchmarking 2012 (BBOB 2012)*. Philadelphia, Pennsylvania, USA: ACM, 205–212.
- [Scheibenpflug *et al.*(2012)Scheibenpflug, Wagner, Pitzer, & Affenzeller] Scheibenpflug, A., Wagner, S., Pitzer, E., & Affenzeller, M. (2012). Optimization knowledge base: an open database for algorithm and problem characteristics and optimization results. In S. Wagner & M. Affenzeller (Eds.), *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*. Philadelphia, Pennsylvania, USA: ACM, 141–148.
- [Schneider(2012)] Schneider, N. (2012). Generic prognosis with evolutionary approaches. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1501–1502.
- [Schoonover(2012)] Schoonover, C. E. (2012). How to look inside the brain. In J. H. Moore (Ed.), *GECCO 2012 Keynote talks*. Philadelphia, Pennsylvania, USA: ACM, 1393–1394.
- [Semenov & Stratonowitch(2012)] Semenov, M. A. & Stratonowitch, P. (2012). Application of evolutionary algorithms for model calibration. In K. Rodriguez & C. Blum (Eds.), *GECCO 2012 Late breaking abstracts workshop*. Philadelphia, Pennsylvania, USA: ACM, 621–622.
- [Sepúlveda *et al.*(2012)Sepúlveda, Chau, Strum, Pedraza, Gogniat, & Pires] Sepúlveda, M. J., Chau, W., Strum, M., Pedraza, C., Gogniat, G., & Pires, R. (2012). Multi-objective artificial immune algorithm for security-constrained multi-application noc mapping. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber,

- C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1449–1450.
- [Setayesh *et al.*(2012)Setayesh, Zhang, & Johnston] Setayesh, M., Zhang, M., & Johnston, M. (2012). A spatial random-meaningful neighbourhood topology in pso for edge detection in noisy images. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1403–1404.
- [Shafiee & Zechman(2012)] Shafiee, E. & Zechman, E. (2012). Integrating evolutionary computation and sociotechnical simulation for flushing contaminated water distribution systems. In F. Stonedahl & R. Riolo (Eds.), *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*. Philadelphia, Pennsylvania, USA: ACM, 315–322.
- [Sher(2012)] Sher, G. I. (2012). Forex trading using geometry sensitive neural networks. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1533–1534.
- [Soltero *et al.*(2012)Soltero, Bodas-Sagi, Fernández-Blanco, Hidalgo, & de Vega] Soltero, F. J., Bodas-Sagi, D. J., Fernández-Blanco, P., Hidalgo, J. I., & de Vega, F. F. (2012). Optimization of technical indicators in real time with multiobjective evolutionary algorithms. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1535–1536.
- [soo Park & Kim(2012)] soo Park, H. & Kim, K. J. (2012). Automatic python programming using stack-based genetic programming. In K. Rodriguez & C. Blum (Eds.), *GECCO 2012 Late breaking abstracts workshop*. Philadelphia, Pennsylvania, USA: ACM, 641–642.
- [Spector(2012)] Spector, L. (2012). Assessment of problem modality by differential performance of lexibase selection in genetic programming: a preliminary report. In K. McClymont & E. Keedwell (Eds.), *1st workshop on Understanding Problems (GECCO-UP)*. Philadelphia, Pennsylvania, USA: ACM, 401–408.
- [Srivastava *et al.*(2012)Srivastava, Schmidhuber, & Gomez] Srivastava, R. K., Schmidhuber, J., & Gomez, F. (2012). Generalized compressed network search. In K. Rodriguez & C. Blum (Eds.), *GECCO 2012 Late breaking abstracts workshop*. Philadelphia, Pennsylvania, USA: ACM, 647–648.
- [Stanley(2012)] Stanley, K. O. (2012). Evolving neural networks. In G. Ochoa (Ed.), *GECCO 2012 Introductory tutorials*. Philadelphia, Pennsylvania, USA: ACM, 805–826.
- [Suciu *et al.*(2012)Suciu, Cremene, Pop, & Dumitrescu] Suciu, M., Cremene, M., Pop, F., & Dumitrescu, D. (2012). Equitable solutions in qos-aware service optimization. In T. Soule,

- A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1537–1538.
- [Sudholt(2012)] Sudholt, D. (2012). Theory of swarm intelligence. In G. Ochoa (Ed.), *GECCO 2012 Specialized techniques and applications tutorials*. Philadelphia, Pennsylvania, USA: ACM, 1215–1238.
- [Sun *et al.*(2012)Sun, Pfahringer, & Mayo] Sun, Q., Pfahringer, B., & Mayo, M. (2012). Full model selection in the space of data mining operators. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1503–1504.
- [Tan *et al.*(2012)Tan, Deklerck, Jansen, & Cornelis] Tan, M., Deklerck, R., Jansen, B., & Cornelis, J. (2012). Analysis of a feature-deselective neuroevolution classifier (fd-neat) in a computer-aided lung nodule detection system for ct images. In S. L. Smith, S. Cagnoni, & R. M. Patton (Eds.), *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*. Philadelphia, Pennsylvania, USA: ACM, 539–546.
- [Thompson(2012)] Thompson, J. (2012). Trade-offs using gamid for the inference of dna motifs that are represented in only a subset of sequences of interest. In S. Goings (Ed.), *Tenth GECCO Undergraduate Student Workshop*. Philadelphia, Pennsylvania, USA: ACM, 563–568.
- [Tinós(2012)] Tinós, R. (2012). Analysing fitness landscape changes in evolutionary robots. In K. McClymont & E. Keedwell (Eds.), *1st workshop on Understanding Problems (GECCO-UP)*. Philadelphia, Pennsylvania, USA: ACM, 385–392.
- [Tosch & Spector(2012)] Tosch, E. & Spector, L. (2012). Achieving cosmos: a metric for determining when to give up and when to reach for the stars. In K. McClymont & E. Keedwell (Eds.), *1st workshop on Understanding Problems (GECCO-UP)*. Philadelphia, Pennsylvania, USA: ACM, 417–424.
- [Toutouh & Alba(2012)] Toutouh, J. & Alba, E. (2012). Green olsr in vanets with differential evolution. In A.-A. Tantar, E. Tantar, & P. A. Bosman (Eds.), *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*. Philadelphia, Pennsylvania, USA: ACM, 11–18.
- [Trujillo *et al.*(2012)Trujillo, Martinez, Lopez, & Legrand] Trujillo, L., Martinez, Y., Lopez, E. G., & Legrand, P. (2012). A comparative study of an evolvability indicator and a predictor of expected performance for genetic programming. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1489–1490.
- [Tsai *et al.*(2012)Tsai, Lin, Chiang, Yang, & Hong] Tsai, C.-W., Lin, T.-Y., Chiang, M.-C., Yang, C.-S., & Hong, T.-P. (2012). Continuous space pattern reduction for genetic clustering algorithm. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L.

- Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1475–1476.
- [Tsutsui & Fujimoto(2012)] Tsutsui, S. & Fujimoto, N. (2012). On the effect of using multiple gpus in solving gaps with cuda. In K. Rodriguez & C. Blum (Eds.), *GECCO 2012 Late breaking abstracts workshop*. Philadelphia, Pennsylvania, USA: ACM, 629–630.
- [van Berkel *et al.*(2012)van Berkel, Turi, Pruteanu, & Dulman] van Berkel, S., Turi, D., Pruteanu, A., & Dulman, S. (2012). Automatic discovery of algorithms for multi-agent systems. In F. Stonedahl & R. Riolo (Eds.), *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*. Philadelphia, Pennsylvania, USA: ACM, 337–344.
- [van Lon *et al.*(2012)van Lon, Holvoet, Vanden Berghe, Wenseleers, & Branke] van Lon, R. R., Holvoet, T., Vanden Berghe, G., Wenseleers, T., & Branke, J. (2012). Evolutionary synthesis of multi-agent systems for dynamic dial-a-ride problems. In F. Stonedahl & R. Riolo (Eds.), *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*. Philadelphia, Pennsylvania, USA: ACM, 331–336.
- [Verel(2012)] Verel, S. (2012). Fitness landscapes and graphs: multimodularity, ruggedness and neutrality. In G. Ochoa (Ed.), *GECCO 2012 Advanced tutorials*. Philadelphia, Pennsylvania, USA: ACM, 1013–1034.
- [Voglís *et al.*(2012)Voglís, Piperagkas, Parsopoulos, Papageorgiou, & Lagaris] Voglís, C., Piperagkas, G. S., Parsopoulos, K. E., Papageorgiou, D. G., & Lagaris, I. E. (2012). Memspode: an empirical assessment of local search algorithm impact on a memetic algorithm using noiseless testbed. In A. Auger, A. Chotard, N. Hansen, V. Heidrich-Meisner, O. Mersmann, P. Posik, & M. Preuss (Eds.), *Black box optimization benchmarking 2012 (BBOB 2012)*. Philadelphia, Pennsylvania, USA: ACM, 245–252.
- [Wagner & Kronberger(2012)] Wagner, S. & Kronberger, G. (2012). Algorithm and experiment design with heuristic lab: an open source optimization environment for research and education. In G. Ochoa (Ed.), *GECCO 2012 Specialized techniques and applications tutorials*. Philadelphia, Pennsylvania, USA: ACM, 1287–1316.
- [Walker *et al.*(2012)Walker, Fieldsend, & Everson] Walker, D., Fieldsend, J., & Everson, R. (2012). Visualising many-objective populations. In R. Everson, J. Fieldsend, & D. Walker (Eds.), *GECCO 2012 Visualisation methods for genetic and evolutionary computation (VizGEC)*. Philadelphia, Pennsylvania, USA: ACM, 451–458.
- [Whitley & Sutton(2012)] Whitley, D. & Sutton, A. (2012). Elementary landscapes: theory and applications. In G. Ochoa (Ed.), *GECCO 2012 Advanced tutorials*. Philadelphia, Pennsylvania, USA: ACM, 941–960.
- [Wineberg(2012)] Wineberg, M. (2012). Statistical analysis for evolutionary computation: an introduction. In G. Ochoa (Ed.), *GECCO 2012 Advanced tutorials*. Philadelphia, Pennsylvania, USA: ACM, 895–916.
- [Woodard & Clemons(2012)] Woodard, C. J. & Clemons, E. K. (2012). Modeling technology evolution using generalized genotype-phenotype maps. In F. Stonedahl & R. Riolo (Eds.), *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*. Philadelphia, Pennsylvania, USA: ACM, 323–330.
- [Woodward & Swan(2012)] Woodward, J. R. & Swan, J. (2012). The automatic generation of mutation operators for genetic algorithms. In G. L. Pappa, J. Woodward, M. R. Hyde, & J. Swan (Eds.), *GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms*. Philadelphia, Pennsylvania, USA: ACM, 67–74.

- [Yeboah-Antwi(2012)] Yeboah-Antwi, K. (2012). Evolving software applications using genetic programming – pushcalc: the evolved calculator. In S. Goings (Ed.), *Tenth GECCO Undergraduate Student Workshop*. Philadelphia, Pennsylvania, USA: ACM, 569–572.
- [Yefimochkin *et al.*(2012)Yefimochkin, Neves, & Horta] Yefimochkin, O., Neves, R., & Horta, N. (2012). An evolutionary approach to define investment strategies based on macroeconomic indicators and vix data. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1539–1540.
- [Yoon & Kim(2012)] Yoon, D.-M. & Kim, K.-J. (2012). Comparison of scoring methods for interactive evolutionary computation based image retouching system. In K. Rodriguez & C. Blum (Eds.), *GECCO 2012 Late breaking abstracts workshop*. Philadelphia, Pennsylvania, USA: ACM, 617–618.
- [Zaefferer *et al.*(2012)Zaefferer, Bartz-Beielstein, Frieze, Naujoks, & Flasch] Zaefferer, M., Bartz-Beielstein, T., Frieze, M., Naujoks, B., & Flasch, O. (2012). Multi-criteria optimization for hard problems under limited budgets. In T. Soule, A. Auger, J. Moore, D. Pelta, C. Solnon, M. Preuss, A. Dorin, Y.-S. Ong, C. Blum, D. L. Silva, F. Neumann, T. Yu, A. Ekart, W. Browne, T. Kovacs, M.-L. Wong, C. Pizzuti, J. Rowe, T. Friedrich, G. Squillero, N. Bredeche, S. Smith, A. Motsinger-Rei, J. Lozano, M. Pelikan, S. Meyer-Nienber, C. Igel, G. Hornby, R. Doursat, S. Gustafson, G. Olague, S. Yoo, J. Clark, G. Ochoa, G. Pappa, F. Lobo, D. Tauritz, J. Branke, & K. Deb (Eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA: ACM, 1451–1452.
- [Zaglauer(2012)] Zaglauer, S. (2012). The evolutionary algorithm samoa with use of dynamic constraints. In K. Rodriguez & C. Blum (Eds.), *GECCO 2012 Late breaking abstracts workshop*. Philadelphia, Pennsylvania, USA: ACM, 635–636.
- [Zhang *et al.*(2012)Zhang, Koshimura, Fujita, & Hasegawa] Zhang, X.-F., Koshimura, M., Fujita, H., & Hasegawa, R. (2012). Hybrid particle swarm optimization and convergence analysis for scheduling problems. In F. Stonedahl & R. Riolo (Eds.), *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*. Philadelphia, Pennsylvania, USA: ACM, 307–314.