Список литературы

[AAS+12] Aniesha Alford, Joshua Adams, Joseph Shelton, Kelvin Bryant, John Kelly, and Gerry Dozier. Analyzing the cross-generalization ability of a hybrid genetic & evolutionary application for multibiometric feature weighting and selection. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1521–1522, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[AH12] Anne Auger and Nikolaus Hansen. Tutorial cma-es: evolution strategies and covariance matrix adaptation. In Gabriela Ochoa, editor, *GECCO 2012 Advanced tutorials*, pages 827–848, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[AHC12] Babak Amiri, Liaquat Hossain, and John Crowford. A multiobjective hybrid evolutionary algorithm for clustering in social networks. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1445–1446, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[AK12] Nassima Aleb and Samir Kechid. A new framework for scalable genetic programming. In Steven Gustafson and Ekaterina Vladislavleva, editors, *GECCO 2012 Symbolic regression and modeling workshop*, pages 487–492, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[AW12] Ashraf M. Abdelbar and Donald C. Wunsch. Improving the performance of max-min ant system on the tsp using stubborn ants. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1395–1396, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Bae12] Thomas Baeck. Evolution strategies: basic introduction. In Gabriela Ochoa, editor, *GECCO 2012 Introductory tutorials*, pages 711–736, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[BAH12] Dimo Brockhoff, Anne Auger, and Nikolaus Hansen. On the effect of mirroring in the ipop active cma-es on the noiseless bbob testbed. In Anne Auger, Alexandre Chotard, Nikolaus Hansen, Verena Heidrich-Meisner, Olaf Mersmann, Petr Posik, and

1

Mike Preuss, editors, *Black box optimization benchmarking 2012 (BBOB 2012)*, pages 277–284, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[BAL⁺12]   Mosab Bazargani, António Anjos, Fernando Lobo, Ali Mollahosseini, and Hamid Shahbazkia. Affine image registration transformation estimation using a real coded genetic algorithm with sbx. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1459–1460, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Ban12]   Amit Banerjee. Density-based evolutionary outlier detection. In Katya Rodriguez and Christian Blum, editors, *GECCO 2012 Late breaking abstracts workshop*, pages 651–652, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Baz12]   Ana L.C. Bazzan. Co-evolution of the dynamics in population games: the case of traffic flow assignment. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1523–1524, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[BBFZ12]   Thomas Bartz-Beielstein, Oliver Flasch, and Martin Zaefferer. Sequential parameter optimization for symbolic regression. In Steven Gustafson and Ekaterina Vladislavleva, editors, *GECCO 2012 Symbolic regression and modeling workshop*, pages 495–496, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[BBH12]   Josh Bongard, Paul Beliveau, and Gregory Hornby. Avoiding local optima with interactive evolutionary robotics. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1405–1406, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[BCM12]   Chad Byers, Betty Cheng, and Philip McKinley. Exploring the evolution of internal control structure using digital enzymes. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve

Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1407–1408, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[BDD+12]   Alberto Bartoli, Giorgio Davanzo, Andrea De Lorenzo, Marco Mauri, Eric Medvet, and Enrico Sorio. Automatic generation of regular expressions from examples with genetic programming. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1477–1478, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Ber12]   Omri Bernstein. Flea market simulator: a market simulator for experiments on the computational evolution of trading strategies for economic agents. In Sherri Goings, editor, *Tenth GECCO Undergraduate Student Workshop*, pages 549–554, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[BFFU12]   Vitoantonio Bevilacqua, Giuseppe Filograno, Michele Fiorentino, and Antonio E. Uva. Early diagnosis of lung tumors by genetically optimized 3d-metaball malignancy metric. In Stephen L. Smith, Stefano Cagnoni, and Robert M. Patton, editors, *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, pages 531–538, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[BHB12]   Paul Beliveau, Greg Hornby, and Josh Bongard. Interactive simulated robot construction and controller evolution. In Katya Rodriguez and Christian Blum, editors, *GECCO 2012 Late breaking abstracts workshop*, pages 627–628, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[BL12]   Jaume Bacardit and Xavier Llorà. Large scale data mining using genetics-based machine learning. In Gabriela Ochoa, editor, *GECCO 2012 Specialized techniques and applications tutorials*, pages 1171–1196, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[BPW+12]   Andreas Beham, Erik Pitzer, Stefan Wagner, Michael Affenzeller, Klaus Altendorfer, Thomas Felberbauer, and Martin Bäck. Integration of flexible interfaces in optimization software frameworks for simulation-based optimization. In Stefan Wagner and Michael Affenzeller, editors, *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, pages 125–132, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[BS12a]   Behzad Behzadan and Robert Elliott Smith. An information-based approach towards neuro-evolution. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1491–1492, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[BS12b]   Amit Benbassat and Moshe Sipper. Evolving players that use selective game-tree search with genetic programming. In Katya Rodriguez and Christian Blum, editors, *GECCO 2012 Late breaking abstracts workshop*, pages 631–632, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[BS12c]   Maxim Buzdalov and Andrey Sokolov. Evolving efsms solving a path-planning problem by genetic programming. In Alison Motsinger-Reif, editor, *GECCO 2012 Graduate Students Workshop*, pages 591–594, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Bur12]   Keki Burjorjee. Explaining adaptation in genetic algorithms with uniform crossover: the hyperclimbing hypothesis. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1461–1462, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Bus12]   William S. Bush. Introduction to bioinformatics and computational biology. In Gabriela Ochoa, editor, *GECCO 2012 Specialized techniques and applications tutorials*, pages 1141–1170, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[CAPL12]   Evellyn S. Cavalcante, André L.L. Aquino, Gisele L. Pappa, and Antonio A.F. Loureiro. Roadside unit deployment for information dissemination in a vanet: an evolutionary approach. In Alexandru-Adrian Tantar, Emilia Tantar, and Peter A.N. Bosman, editors, *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*, pages 27–34, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[CB12a]   Shane Eric Celis and Josh Bongard. Not all physics simulators can be wrong in the same way. In Katya Rodriguez and Christian Blum, editors, *GECCO 2012 Late breaking abstracts workshop*, pages 659–660, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[CB12b]   Claudio Comis Da Ronco and Ernesto Benini. Gedea-ii: a simplex-crossover based multi objective evolutionary algorithm including the genetic diversity asobjective. In Katya Rodriguez and Christian Blum, editors, *GECCO 2012 Late breaking abstracts workshop*, pages 619–620, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[CC12]   Yao-Chen Chuang and Chyi-Tsong Chen. Black-box optimization benchmarking for noiseless function testbed using a direction-based rcga. In Anne Auger, Alexandre Chotard, Nikolaus Hansen, Verena Heidrich-Meisner, Olaf Mersmann, Petr Posik, and Mike Preuss, editors, *Black box optimization benchmarking 2012 (BBOB 2012)*, pages 167–174, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[CCM+12]   Stefano Cagnoni, Oscar Cordón, Pablo Mesejo, Youssef S.G. Nashed, and Roberto Ugolotti. First results and future developments of the mibisoc project in the ibislab of the university of parma. In Stephen L. Smith, Stefano Cagnoni, and Robert M. Patton, editors, *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, pages 509–516, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[CH12]   Pierre Collet and Simon Harding. Evolutionary algorithms and genetic programming on graphic processing units (gpu). In Gabriela Ochoa, editor, *GECCO 2012 Specialized techniques and applications tutorials*, pages 1117–1138, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[CMR12]   Joao Correia, Penousal Machado, and Juan Romero. Improving haar cascade classifiers through the synthesis of new training examples. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1479–1480, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[CMZB12]   Alberto Castellini, Vincenzo Manca, Mauro Zucchelli, and Mirko Busato. A genetic approach for synthesizing metabolic models from time series. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1415–1416, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[CO12]   Murillo Guimaraes Carneiro and Gina Maira Barbosa Oliveira. Synchronous cellular automata scheduler with construction heuristic to static task scheduling in multiprocessors. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1433–1434, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Coe12]   Carlos Artemio Coello Coello. Constraint-handling techniques used with evolutionary algorithms. In Gabriela Ochoa, editor, *GECCO 2012 Advanced tutorials*, pages 849–872, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Col12]   Mark Coletti. The effects of training set size and keeping rules on the emergent selection pressure of learnable evolution model. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1505–1506, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[CUT12]   Daniil Chivilikhin, Vladimir Ulyantsev, and Fedor Tsarev. Test-based extended finite-state machines induction with evolutionary algorithms and ant colony optimization. In

Alison Motsinger-Reif, editor, *GECCO 2012 Graduate Students Workshop*, pages 603–606, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[CZL12]   Ni Chen, Jun Zhang, and Ou Liu. Adaptive genetic algorithm based on density distribution of population. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1543–1544, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[CZM12]   Brian D. Connelly, Luis Zaman, and Philip K. McKinley. The seeds platform for evolutionary and ecological simulations. In Stefan Wagner and Michael Affenzeller, editors, *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, pages 133–140, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[DBB12]   Laurent Dumas, Pierre Boutouyrie, and Erwan Bozec. An optimal reconstruction of the human arterial tree from doppler echotracking measurements. In Stephen L. Smith, Stefano Cagnoni, and Robert M. Patton, editors, *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, pages 517–522, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[dCFC12]   Marcio de Oliveira Barros, Hélio Rodrigues Costa, Fábio Vitorino Figueiredo, and Ana Regina Cavalcanti da Rocha. Multiobjective optimization for project portfolio selection. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1541–1542, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[De 12]   Kenneth De Jong. Evolutionary computation: a unified approach. In Gabriela Ochoa, editor, *GECCO 2012 Introductory tutorials*, pages 737–750, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[DFG+12]   François-Michel De Rainville, Félix-Antoine Fortin, Marc-André Gardner, Marc Parizeau, and Christian Gagné. Deap: a python framework for evolutionary algorithms. In Stefan Wagner and Michael Affenzeller, editors, *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, pages 85–92, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[DJM12]   Stephane Doncieux, Yaochu Jin, and Jean-Baptiste Mouret. Evo-devo-robo workshop program. In Stephane Doncieux, Yaochu Jin, and Jean-Baptiste Mouret, editors, *GECCO 2012 Evolutionary developmental robotics*, pages 355–356, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[dM12]   Vinícius Veloso de Melo. Benchmarking the multi-view differential evolution on the noiseless bbob-2012 function testbed. In Anne Auger, Alexandre Chotard, Nikolaus Hansen, Verena Heidrich-Meisner, Olaf Mersmann, Petr Posik, and Mike Preuss, editors, *Black box optimization benchmarking 2012 (BBOB 2012)*, pages 183–188, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

6

[Dob12]   Felix Dobslaw. Input: the intelligent parameter utilization tool. In Stefan Wagner and Michael Affenzeller, editors, *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, pages 149–156, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Doe12]   Benjamin Doerr. Black-box complexity: from complexity theory to playing mastermind. In Gabriela Ochoa, editor, *GECCO 2012 Specialized techniques and applications tutorials*, pages 1079–1092, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[DRM12]   Arman Darvish, Shahryar Rahnamayan, and Zaid S. Mohamad. Interactive differential evolution for prostate ultrasound image thresholding. In Stephen L. Smith, Stefano Cagnoni, and Robert M. Patton, editors, *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, pages 501–508, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[EO12]   Mostafa Mostafa Hashim Ellabaan and Yew Soon Ong. Experiences on memetic computation for locating transition states in biochemical applications. In Katya Rodriguez and Christian Blum, editors, *GECCO 2012 Late breaking abstracts workshop*, pages 623–624, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[EPW12]   Amanda English, Holly Petruso, and Chong Wang. Grammatical evolution decision trees for trio designs. In Sherri Goings, editor, *Tenth GECCO Undergraduate Student Workshop*, pages 559–562, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[FHN⁺12]   David Fagan, Erik Hemberg, Miguel Nicolau, Michael O'Neill, and Sean McGarraghy. Towards adaptive mutation in grammatical evolution. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1481–1482, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[FJZ12]   Wenlong Fu, Mark Johnston, and Mengjie Zhang. Genetic programming for edge detection based on figure of merit. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1483–1484, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[FKS12]   Nugroho Fredivianus, Kais Kara, and Hartmut Schmeck. Stay real!: Xcs with rule combining for real values. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary*

computation conference companion, pages 1493–1494, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[FL12]   Stephanie Forrest and Claire LeGoues. Evolutionary software repair. In Gabriela Ochoa, editor, *GECCO 2012 Specialized techniques and applications tutorials*, pages 1345–1348, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[FMM+12]   Carlos Miguel Fernandes, Antonio Mora, Juan Julian Merelo, Francisco Fernández, and Agostinho Rosa. Generating colored 2-dimensional representations of sleep eeg with the kants clustering algorithm. In Richard Everson, Jonathan Fieldsend, and David Walker, editors, *GECCO 2012 Visualisation methods for genetic and evolutionary computation (VizGEC)*, pages 435–442, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[FR12]   Cyril Fonlupt and Denis Robilliard. Combining programs to counter code disruption. In Katya Rodriguez and Christian Blum, editors, *GECCO 2012 Late breaking abstracts workshop*, pages 643–644, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Gag12]   David J. Gagne. Gamiv: a genetic algorithm for identifying variable-lengthmotifs in noncoding dna. In Sherri Goings, editor, *Tenth GECCO Undergraduate Student Workshop*, pages 555–558, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Gar12]   Deon Garrett. A call for collaborative landscape analysis. In Kent McClymont and Ed Keedwell, editors, *1st workshop on Understanding Problems (GECCO-UP)*, pages 409–416, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[GGV+12]   Eric Rincon García, Roman Mora Gutiérrez, Pedro Lara Velázquez, Antonin Ponsich, Miguel Ángel Gutiérrez Andrade, and Sergio De Los Cobos Silva. A discrete artificial bee colony algorithm for the multi-objective redistricting problem. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1439–1440, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[GKS12]   Faustino Gomez, Jan Koutník, and Jürgen Schmidhuber. Complexity search for compressed neural networks. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1455–1456, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[GL12]   Yifeng Gao and Dan Lv. Principal coordinate strategy: a novel adaptive control strategy for differential evolution. In Sherri Goings, editor, *Tenth GECCO Undergraduate Student Workshop*, pages 573–578, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Goo12]   Erik D. Goodman. Introduction to genetic algorithms. In Gabriela Ochoa, editor, *GECCO 2012 Introductory tutorials*, pages 671–692, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[GT12]   Brian W. Goldman and Daniel R. Tauritz. Supportive coevolution. In Gisele L. Pappa, John Woodward, Matthew R. Hyde, and Jerry Swan, editors, *GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms*, pages 59–66, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[GTL$^+$12] Francesco Gullo, AKM Khaled Talukder, Sean Luke, Carlotta Domeniconi, and Andrea Tagarelli. Multiobjective optimization of co-clustering ensembles. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1495–1496, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[HAA12]   Stephan Hutterer, Michael Affenzeller, and Franz Auinger. Evolutionary optimization of multi-agent controlstrategies for electric vehicle charging. In Alexandru-Adrian Tantar, Emilia Tantar, and Peter A.N. Bosman, editors, *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*, pages 3–10, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Han12]   Sen Han. Batting order optimization by genetic algorithm. In Alison Motsinger-Reif, editor, *GECCO 2012 Graduate Students Workshop*, pages 599–602, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[HMH$^+$12] Kristopher Hoover, Rachel Marceau, Tyndall Harris, David Reif, and Alison Motsinger-Reif. A comparison of ge optimized neural networks and decision trees. In Alison Motsinger-Reif, editor, *GECCO 2012 Graduate Students Workshop*, pages 611–614, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[HPR12]   B. Hoda Helmi, Martin Pelikan, and Adel T. Rahmani. Linkage learning using the maximum spanning tree of the dependency graph. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1429–1430, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[HS12]   Thomas Helmuth and Lee Spector. Empirical investigation of size-based tournaments for node selection in genetic programming. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1485–1486, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[HSPO12]   Kyle I. Harrington, Lee Spector, Jordan B. Pollack, and Una-May O'Reilly. Autoconstructive evolution for structural problems. In Gisele L. Pappa, John Woodward, Matthew R. Hyde, and Jerry Swan, editors, *GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms*, pages 75–82, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[HVO12]   Erik Hemberg, Kalyan Veeramachaneni, and Una-May O'Reilly. Graphical models and what they reveal about gp when it solves a symbolic regression problem. In Steven Gustafson and Ekaterina Vladislavleva, editors, *GECCO 2012 Symbolic regression and modeling workshop*, pages 493–494, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[HY12a]   Tsung-Yu Ho and Tian-Li Yu. A linkage-learning niching in estimation of distribution algorithm. In Katya Rodriguez and Christian Blum, editors, *GECCO 2012 Late breaking abstracts workshop*, pages 649–650, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[HY12b]   Chung-Hsiang Hsueh and Tian-Li Yu. Affective content based music video paring system using real coded ga. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1427–1428, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[hZZ12]   Zhi hui Zhan and Jun Zhang. Enhance differential evolution with random walk. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1513–1514, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[IGD12]   David Iclanzan, Noémi Gaskó, and D. Dumitrescu. Evolving mixed nash equilibria for bimatrix games. In Katya Rodriguez and Christian Blum, editors, *GECCO 2012 Late breaking abstracts workshop*, pages 655–656, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[ILC12]   Sahbi Ben Ismail, François Legras, and Gilles Coppin. A new interactive evolutionary algorithm for the vehicle routing problem. In Katya Rodriguez and Christian Blum, editors, *GECCO 2012 Late breaking abstracts workshop*, pages 661–668, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[JBE12]   Khalid Jebari, Abdelaziz Bouroumi, and Aziz Ettouhami. Genetic fuzzy rules for dops. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo,

John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1507–1508, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[JC12]   Henri C. Jimbo and Matthew J. Craven. A dynamical model of cancer chemotherapy with disturbance. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1417–1418, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[JKDW12]   Michal Joachimczak, Taras Kowaliw, Rene Doursat, and Borys Wróbel. Evolving morphologies and controllers for soft-bodied multicellular animats using gene regulatory networks and artificial embryogenesis. In Stephane Doncieux, Yaochu Jin, and Jean-Baptiste Mouret, editors, *GECCO 2012 Evolutionary developmental robotics*, pages 357–360, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Jul12]   Bryant A. Julstrom. Clans and cooperation in the iterated prisoner's dilemma. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1463–1464, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[JZ12]   Thomas Jansen and Christine Zarges. Artificial immune systems for optimisation. In Gabriela Ochoa, editor, *GECCO 2012 Specialized techniques and applications tutorials*, pages 1059–1078, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[KF12]   Ahmed Kattan and Shaheen Fatima. Evolving optimal agendas and strategies for negotiation in dynamic environments: a surrogate based approach. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1435–1436, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[KKW+12] Michael Kommenda, Gabriel Kronberger, Stefan Wagner, Stephan Winkler, and Michael Affenzeller. On the architecture and implementation of tree-based genetic programming in heuristiclab. In Stefan Wagner and Michael Affenzeller, editors, *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, pages 101–108, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[KM12]   Jinhyun Kim and Byung-Ro Moon. New malware detection system using metric-based method and hybrid genetic algorithm. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1527–1528, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[KNI12]   Kazuki Komiya, Nasimul Noman, and Hitoshi Iba. The search for robust topologies of oscillatory gene regulatory networks by evolutionary computation. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1419–1420, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Kot12]   Mark Kotanchek. Robust function discovery and feature selection for life sciences and engineering. In Steven Gustafson and Ekaterina Vladislavleva, editors, *GECCO 2012 Symbolic regression and modeling workshop*, pages 497–498, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[KP12]   Krzysztof Krawiec and Tomasz Pawlak. Locally geometric semantic crossover. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1487–1488, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[KPFKV12]   Maximos A. Kaliakatsos-Papakostas, Andreas Floros, Nikolaos Kanellopoulos, and Michael N. Vrahatis. Genetic evolution of l and fl-systems for the production of rhythmic sequences. In F. Fernandez de Vega and Carlos Cotta, editors, *GECCO 2012 Evolutionary music*, pages 461–468, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[KPS⁺12]   Pavel Kromer, Lukas Prokop, Vaclav Snasel, Stanislav Misak, Jan Platos, and Ajith Abraham. Evolutionary prediction of photovoltaic power plant energy production. In Alexandru-Adrian Tantar, Emilia Tantar, and Peter A.N. Bosman, editors, *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*, pages 35–42, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[KT12]   Matt Knudson and Kagan Tumer. Policy transfer in mobile robots using neuro-evolutionary navigation. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum,

Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1411–1412, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Kue12]   Timothy J. Kuehn. Evolutionary fabrication: a system of autonomous invention. In Sherri Goings, editor, *Tenth GECCO Undergraduate Student Workshop*, pages 579–584, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[LCTMCP12] Eunice López-Camacho, Hugo Terashima-Marín, and Santiago Enrique Conant-Pablos. The impact of the bin packing problem structure in hyper-heuristic performance. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1545–1546, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Leh12]   Per Kristian Lehre. Drift analysis. In Gabriela Ochoa, editor, *GECCO 2012 Specialized techniques and applications tutorials*, pages 1239–1258, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[lLZnC12]   Yuan long Li, Jun Zhang, and Wei neng Chen. Differential evolution algorithm with pca-based crossover. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1509–1510, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[LMK12]   Giuseppe Longo, Maël Montévil, and Stuart Kauffman. No entailing laws, but enablement in the evolution of the biosphere. In Jason H. Moore, editor, *GECCO 2012 Keynote talks*, pages 1379–1392, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[LMS+12]   Tianjun Liao, Daniel Molina, Thomas Stutzle, Marco A. Montes de Oca, and Marco Dorigo. An aco algorithm benchmarked on the bbob noiseless function testbed. In Anne Auger, Alexandre Chotard, Nikolaus Hansen, Verena Heidrich-Meisner, Olaf Mersmann, Petr Posik, and Mike Preuss, editors, *Black box optimization benchmarking 2012 (BBOB 2012)*, pages 159–166, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[LP12]   Daniele Loiacono and Mike Preuß. Computational intelligence in games. In Gabriela Ochoa, editor, *GECCO 2012 Specialized techniques and applications tutorials*, pages 1139–1140, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[LPC12]   Nuno Lourenço, Francisco Pereira, and Ernesto Costa. Evolving evolutionary algorithms. In Gisele L. Pappa, John Woodward, Matthew R. Hyde, and Jerry Swan, editors, *GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms*, pages 51–58, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[LSS12]   Ilya Loshchilov, Marc Schoenauer, and Michele Sebag. Black-box optimization benchmarking of ipop-saacm-es and bipop-saacm-es on the bbob-2012 noiseless testbed. In Anne Auger, Alexandre Chotard, Nikolaus Hansen, Verena Heidrich-Meisner, Olaf Mersmann, Petr Posik, and Mike Preuss, editors, *Black box optimization benchmarking 2012 (BBOB 2012)*, pages 175–182, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[LTH12]   Poming Lee, Yun Teng, and Tzu-Chien Hsiao. Xcsf for prediction on emotion induced by image based on dimensional theory of emotion. In Daniele Loiacono, Albert Orriols-Puig, and Ryan Urbanowicz, editors, *Fifteenth international workshop on learning classifier systems (ICWLS)*, pages 375–382, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[ME12]   Shreya Mukherjee and Margaret J. Eppstein. Differential evolution of constants in genetic programming improves efficacy and bloat. In Katya Rodriguez and Christian Blum, editors, *GECCO 2012 Late breaking abstracts workshop*, pages 625–626, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[MEH+12]   Narine Manukyan, Margaret J. Eppstein, Jeffrey D. Horbar, Kathleen A. Leahy, Michael J. Kenny, Shreya Mukherjee, and Donna M. Rizzo. Evolutionary mining for multivariate associations in large time-varying data sets: a healthcare network application. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1547–1548, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[MFME12]   Juan J. Merelo, Carlos M. Fernandes, Antonio M. Mora, and Anna I. Esparcia. Sofea: a pool-based framework for evolutionary algorithms using couchdb. In Stefan Wagner and Michael Affenzeller, editors, *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, pages 109–116, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[MGMEF12]   Juan-Julián Merelo-Guervós, Antonio M. Mora, Anna I. Esparcia, and Carlos M. Fernandes. Validating design choices in a pool-based distributed evolutionary algorithms architecture. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1517–1518, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[MH12]   Julian Francis Miller and Simon Harding. Gecco 2012 tutorial: cartesian genetic programming. In Gabriela Ochoa, editor, *GECCO 2012 Specialized techniques and*

applications tutorials, pages 1093–1116, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[MJP+12]   Luis Matoso, Felipe Junior, Adriano Pereira, Adriano Veloso, and Jr. Wagner Meira. New evolutionary approaches to high-dimensional data. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1447–1448, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[MMR12]   Skylar Marvel and Alison Motsinger-Reif. Grammatical evolution support vector machines for predicting human genetic disease association. In Alison Motsinger-Reif, editor, *GECCO 2012 Graduate Students Workshop*, pages 595–598, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Mor12]   Alberto Moraglio. Geometry of evolutionary algorithms. In Gabriela Ochoa, editor, *GECCO 2012 Specialized techniques and applications tutorials*, pages 1317–1344, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[MSSM12]   Nija Mani, Gursaran Srivastava, Arun Kumar Sinha, and Ashish Mani. An evaluation of cellular population model for improving quantum-inspired evolutionary algorithm. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1437–1438, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[MTF12]   Miha Mlakar, Tea Tuaar, and Bogdan Filipić. Discrete vs. continuous multiobjective optimization of continuous casting of steel. In Alison Motsinger-Reif, editor, *GECCO 2012 Graduate Students Workshop*, pages 587–590, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[MVR+12]   Jorge Maturana, Fernando Vergara, Cristian Rojas, Frédéric Saubion, Felipe Vargas, and Daniel Vidal. Improving clonal colony optimization to evolve robust solutions. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1511–1512, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[MWD12]   Kent McClymont, David Walker, and Max Dupenois. The lay of the land: a brief survey of problem understanding. In Kent McClymont and Ed Keedwell, editors, *1st workshop on Understanding Problems (GECCO-UP)*, pages 425–432, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[NAM12]   Seyednaser Nourashrafeddin, Dirk Arnold, and Evangelos Milios. An evolutionary subspace clustering algorithm for high-dimensional data. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1497–1498, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[NBC⁺12]   Marco S. Nobile, Daniela Besozzi, Paolo Cazzaniga, Giancarlo Mauri, and Dario Pescini. Estimating reaction constants in stochastic biological systems with a multi-swarm pso running on gpus. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1421–1422, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[NHM12]   Vahid Noroozi, Ali B. Hashemi, and Mohammad Reza Meybodi. Alpinist cellularde: a cellular based optimization algorithm for dynamic environments. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1519–1520, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[NSDD12]   Md Nasir, Soumyadip Sengupta, Swagatam Das, and Sanjoy Das. Configuration of sensors on a 3-d terrain: an approach based on evolutionary multi-objective optimization. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1443–1444, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[NUMC12]   Youssef S.G. Nashed, Roberto Ugolotti, Pablo Mesejo, and Stefano Cagnoni. libcudaoptimize: an open source library of gpu-based metaheuristics. In Stefan Wagner and Michael Affenzeller, editors, *GECCO 2012 Evolutionary Computation Software*

Systems (EvoSoft), pages 117–124, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[NW12]   Frank Neumann and Carsten Witt. Bioinspired computation in combinatorial optimization: algorithms and their computational complexity. In Gabriela Ochoa, editor, *GECCO 2012 Advanced tutorials*, pages 1035–1058, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Och12]   Gabriela Ochoa. Hyper-heuristics and cross-domain optimization. In Gabriela Ochoa, editor, *GECCO 2012 Specialized techniques and applications tutorials*, pages 1197–1214, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[OCJ12]   Fernando Otero, Tom Castle, and Colin Johnson. Epochx: genetic programming in java with statistics and event monitoring. In Stefan Wagner and Michael Affenzeller, editors, *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, pages 93–100, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[OH12]   A. Pinar Ozisik and Kyle I. Harrington. The effects of tags on the evolution of honest signaling. In Forrest Stonedahl and Rick Riolo, editors, *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, pages 345–352, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[ON12]   Satoshi Ono and Shigeru Nakayama. User-system cooperative evolution for japanese anagram sentence generation. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1529–1530, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[OPD12]   Charles Ollion, Tony Pinville, and Stéphane Doncieux. Emergence of memory in neuroevolution: impact of selection pressures. In Stephane Doncieux, Yaochu Jin, and Jean-Baptiste Mouret, editors, *GECCO 2012 Evolutionary developmental robotics*, pages 369–372, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[OR12a]   Tomasz Oliwa and Khaled Rasheed. A surrogate-assisted and informed linkage aware ga. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1467–1468, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[O'R12b]   Una-May O'Reilly. Genetic programming: a tutorial introduction. In Gabriela Ochoa, editor, *GECCO 2012 Introductory tutorials*, pages 693–710, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Pad12]   Nikhil Padhye. Evolutionary approaches for real world applications in 21st century. In Nikhil Padhye, Aaron Baughman, Stefan Van Der Stock, Michael Perlitz, Steven M. Gustafson, and Jonathan Jesneck, editors, *GECCO 2012 Real world applications of evolutionary computation*, pages 43–48, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[PBA12]   Erik Pitzer, Andreas Beham, and Michael Affenzeller. Generic hardness estimation using fitness and parameter landscapes applied to robust taboo search and the quadratic assignment problem. In Kent McClymont and Ed Keedwell, editors, *1st workshop on Understanding Problems (GECCO-UP)*, pages 393–400, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[PC12]   Michael E. Palmer and Andrew K. Chou. An artificial visual cortex drives behavioral evolution in co-evolved predator and prey robots. In Stephane Doncieux, Yaochu Jin, and Jean-Baptiste Mouret, editors, *GECCO 2012 Evolutionary developmental robotics*, pages 361–364, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Pel12]   Martin Pelikan. Probabilistic model-building genetic algorithms. In Gabriela Ochoa, editor, *GECCO 2012 Introductory tutorials*, pages 777–804, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[PH12a]   Leon Palafox and Iba Hitoshi. Gene regulatory network reverse engineering using population based incremental learning and k-means. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1423–1424, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[PH12b]   José Pinto and Nuno Horta. Automated passive filter design using multi-objective genetic algorithms with variable parameters. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1531–1532, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[PJ12]   Michael Porta and Bryant A. Julstrom. Evolving instances of unconstrained binary quadratic programming that challenge a tabu search heuristic. In Katya Rodriguez and Christian Blum, editors, *GECCO 2012 Late breaking abstracts workshop*, pages 639–640, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[PK12]   Petr Poaík and Václav Klema. Benchmarking the differential evolution with adaptive encoding on noiseless functions. In Anne Auger, Alexandre Chotard, Nikolaus Hansen, Verena Heidrich-Meisner, Olaf Mersmann, Petr Posik, and Mike Preuss, editors, *Black box optimization benchmarking 2012 (BBOB 2012)*, pages 189–196, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[PLL+12]   Jonathan Pascalie, Valérie Lobjois, Hervé Luga, Bernard Ducommun, and Yves Duthen. Checkpoint oriented cell-cycle simulation: critical role for age distribution initialization. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian

Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1425–1426, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[PN12]   Martin Pilat and Roman Neruda. A surrogate multiobjective evolutionary strategy with local search and pre-selection. In Katya Rodriguez and Christian Blum, editors, *GECCO 2012 Late breaking abstracts workshop*, pages 633–634, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[PSC⁺12]   Dung H. Phan, Junichi Suzuki, Raymond Carroll, Sasitharan Balasubramaniam, William Donnelly, and Dmitri Botvich. Evolutionary multiobjective optimization for green clouds. In Alexandru-Adrian Tantar, Emilia Tantar, and Peter A.N. Bosman, editors, *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*, pages 19–26, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[QBL12]   Juan C. Quiroz, Amit Banerjee, and Sushil J. Louis. 3-d modeling using collaborative evolution. In Katya Rodriguez and Christian Blum, editors, *GECCO 2012 Late breaking abstracts workshop*, pages 653–654, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[RADG12]   Matt Ryerkerk, Ron Averill, Kalyanmoy Deb, and Erik Goodman. Meaningful representation and recombination of variable length genomes. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1471–1472, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[RAW12]   Brigitte Rafael, Michael Affenzeller, and Stefan Wagner. An adaption of the schema theorem to various crossover and mutation operators for a music segmentation problem. In F. Fernandez de Vega and Carlos Cotta, editors, *GECCO 2012 Evolutionary music*, pages 469–476, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[RDD12]   Anguluri Rajasekhar, Swagatam Das, and Sanjoy Das. muabc: a micro artificial bee colony algorithm for large scale global optimization. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1399–1400, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Reg12]   Rommel G. Regis. Surrogate-assisted evolutionary programming for high dimensional constrained black-box optimization. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero,

Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1431–1432, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[RFF12]   Gustavo Reis, Francisco Fernandéz, and Aníbal Ferreira. Evolutionary algorithms and automatic transcription of music. In F. Fernandez de Vega and Carlos Cotta, editors, *GECCO 2012 Evolutionary music*, pages 477–484, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[RHLM12]   Tirtha Ranjeet, Philip Hingston, Chiou Peng Lam, and Martin Masek. Evaluating coevolution on a multimodal problem. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1469–1470, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[RLJ12]   Maja Rudinac, Boris Lenseigne, and Pieter P. Jonker. Empirical mode decomposition for saliency detection. In Stephane Doncieux, Yaochu Jin, and Jean-Baptiste Mouret, editors, *GECCO 2012 Evolutionary developmental robotics*, pages 365–368, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[RM12]   William K. Richard and Stephen M. Majercik. Swarm-based path creation in dynamic environments for search and rescue. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1401–1402, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Rog12]   Tim Rogalsky. Bezier control parameterization for evolutionary optimization in disease models. In Stephen L. Smith, Stefano Cagnoni, and Robert M. Patton, editors, *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, pages 523–530, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Rot12]   Franz Rothlauf. Representations for evolutionary algorithms. In Gabriela Ochoa, editor, *GECCO 2012 Advanced tutorials*, pages 873–894, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Row12]   Jonathan E. Rowe. Genetic algorithm theory. In Gabriela Ochoa, editor, *GECCO 2012 Advanced tutorials*, pages 917–940, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[RS12a]   John Rieffel and Schuyler Smith. Growing and evolving soft robots with a face-encoding tetrahedral grammar. In Terry Soule, Anne Auger, Jason Moore, David

Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1457–1458, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[RS12b]   Kamil Rocki and Reiji Suda. An efficient gpu implementation of a multi-start tsp solver for large problem instances. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1441–1442, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[RSKS12]   Thomas Raway, David J. Schaffer, Kenneth J. Kurtz, and Hiroki Sayama. Evolving data sets to highlight the performance differences between machine learning classifiers. In Katya Rodriguez and Christian Blum, editors, *GECCO 2012 Late breaking abstracts workshop*, pages 657–658, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[RTT+12]   Bill Rand, Alexandru-Adrian Tantar, Emilia Tantar, Peter A.N. Bosman, Nikhil Padhye, Aaron Baughman, Stefan Van Der Stock, Michael Perlitz, Steven M. Gustafson, Jonathan Jesneck, Gisele L. Pappa, John Woodward, Matthew R. Hyde, Jerry Swan, Stefan Wagner, Michael Affenzeller, Anne Auger, Alexandre Chotard, Nikolaus Hansen, Verena Heidrich-Meisner, Olaf Mersmann, Petr Posik, Mike Preuss, Forrest Stonedahl, Rick Riolo, Stephane Doncieux, Yaochu Jin, Jean-Baptiste Mouret, Daniele Loiacono, Albert Orriols-Puig, Ryan Urbanowicz, Kent McClymont, Ed Keedwell, Richard Everson, Jonathan Fieldsend, David Walker, F. Fernandez de Vega, Carlos Cotta, Steven Gustafson, Ekaterina Vladislavleva, Stephen L. Smith, Stefano Cagnoni, Robert M. Patton, Sherri Goings, Alison Motsinger-Reif, Katya Rodriguez, Christian Blum, Gabriela Ochoa, and Jason H. Moore, editors. *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, Philadelphia, Pennsylvania, USA, 7-11 July 2012.

[SBSFB+12] Francisco J. Soltero, Diego J. Bodas-Sagi, Pablo Fernández-Blanco, J. Ignacio Hidalgo, and Francisco Fernández de Vega. Optimization of technical indicators in real time with multiobjective evolutionary algorithms. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1535–1536, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Sch12a]   Tom Schaul. Benchmarking separable natural evolution strategies on the noiseless and noisy black-box optimization testbeds. In Anne Auger, Alexandre Chotard, Nikolaus

Hansen, Verena Heidrich-Meisner, Olaf Mersmann, Petr Posik, and Mike Preuss, editors, *Black box optimization benchmarking 2012 (BBOB 2012)*, pages 205–212, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Sch12b] Nicolas Schneider. Generic prognosis with evolutionary approaches. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1501–1502, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Sch12c] Carl Edward Schoonover. How to look inside the brain. In Jason H. Moore, editor, *GECCO 2012 Keynote talks*, pages 1393–1394, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[SCPD12] Mihai Suciu, Marcel Cremene, Florin Pop, and Dumitru Dumitrescu. Equitable solutions in qos-aware service optimization. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1537–1538, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[SCS+12] Martha Johanna Sepúlveda, Wang Chau, Marius Strum, Cesar Pedraza, Guy Gogniat, and Ricardo Pires. Multi-objective artificial immune algorithm for security-constrained multi-application noc mapping. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1449–1450, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[She12] Gene I. Sher. Forex trading using geometry sensitive neural networks. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1533–1534, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[SML12]   Roberto Santana, Alexander Mendiburu, and Jose Lozano. Evolving nk-complexity for evolutionary solvers. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1473–1474, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Spe12]   Lee Spector. Assessment of problem modality by differential performance of lexicase selection in genetic programming: a preliminary report. In Kent McClymont and Ed Keedwell, editors, *1st workshop on Understanding Problems (GECCO-UP)*, pages 401–408, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[sPK12]   Hyun soo Park and Kyung Joong Kim. Automatic python programming using stack-based genetic programming. In Katya Rodriguez and Christian Blum, editors, *GECCO 2012 Late breaking abstracts workshop*, pages 641–642, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[SPM12]   Quan Sun, Bernhard Pfahringer, and Michael Mayo. Full model selection in the space of data mining operators. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1503–1504, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[SS12]   Mikhail A. Semenov and Pierre Stratonowitch. Application of evolutionary algorithms for model calibration. In Katya Rodriguez and Christian Blum, editors, *GECCO 2012 Late breaking abstracts workshop*, pages 621–622, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[SSG12]   Rupesh Kumar Srivastava, Jürgen Schmidhuber, and Faustino Gomez. Generalized compressed network search. In Katya Rodriguez and Christian Blum, editors, *GECCO 2012 Late breaking abstracts workshop*, pages 647–648, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Sta12]   Kenneth O. Stanley. Evolving neural networks. In Gabriela Ochoa, editor, *GECCO 2012 Introductory tutorials*, pages 805–826, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Sud12]   Dirk Sudholt. Theory of swarm intelligence. In Gabriela Ochoa, editor, *GECCO 2012 Specialized techniques and applications tutorials*, pages 1215–1238, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[SWPA12]   Andreas Scheibenpflug, Stefan Wagner, Erik Pitzer, and Michael Affenzeller. Optimization knowledge base: an open database for algorithm and problem characteristics and optimization results. In Stefan Wagner and Michael Affenzeller, editors, *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, pages 141–148, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[SZ12]   Ehsan Shafiee and Emily Zechman.   Integrating evolutionary computation and sociotechnical simulation for flushing contaminated water distribution systems.   In Forrest Stonedahl and Rick Riolo, editors, *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, pages 315–322, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[SZJ12]   Mahdi Setayesh, Mengjie Zhang, and Mark Johnston. A spatial random-meaningful neighbourhood topology in pso for edge detection in noisy images. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1403–1404, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[TA12]   Jamal Toutouh and Enrique Alba. Green olsr in vanets with differential evolution. In Alexandru-Adrian Tantar, Emilia Tantar, and Peter A.N. Bosman, editors, *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*, pages 11–18, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[TDJC12]   Maxine Tan, Rudi Deklerck, Bart Jansen, and Jan Cornelis. Analysis of a feature-deselective neuroevolution classifier (fd-neat) in a computer-aided lung nodule detection system for ct images. In Stephen L. Smith, Stefano Cagnoni, and Robert M. Patton, editors, *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, pages 539–546, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[TF12]   Shigeyoshi Tsutsui and Noriyuki Fujimoto. On the effect of using multiple gpus in solving qaps with cuda. In Katya Rodriguez and Christian Blum, editors, *GECCO 2012 Late breaking abstracts workshop*, pages 629–630, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Tho12]   Jeffrey Thompson. Trade-offs using gamid for the inference of dna motifs that are represented in only a subset of sequences of interest. In Sherri Goings, editor, *Tenth GECCO Undergraduate Student Workshop*, pages 563–568, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Tin12]   Renato Tinós.   Analysing fitness landscape changes in evolutionary robots.   In Kent McClymont and Ed Keedwell, editors, *1st workshop on Understanding Problems (GECCO-UP)*, pages 385–392, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[TLC⁺12]   Chun-Wei Tsai, Tzu-Yuan Lin, Ming-Chao Chiang, Chu-Sing Yang, and Tzung-Pei Hong. Continuous space pattern reduction for genetic clustering algorithm. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1475–1476, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[TMLL12]   Leonardo Trujillo, Yuliana Martinez, Edgar Galvan Lopez, and Pierrick Legrand. A comparative study of an evolvability indicator and a predictor of expected performance for genetic programming. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1489–1490, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[TS12]   Emma Tosch and Lee Spector. Achieving cosmos: a metric for determining when to give up and when to reach for the stars. In Kent McClymont and Ed Keedwell, editors, *1st workshop on Understanding Problems (GECCO-UP)*, pages 417–424, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Ver12]   Sébastien Verel. Fitness landscapes and graphs: multimodularity, ruggedness and neutrality. In Gabriela Ochoa, editor, *GECCO 2012 Advanced tutorials*, pages 1013–1034, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[vHV+12]   Rinde R.S. van Lon, Tom Holvoet, Greet Vanden Berghe, Tom Wenseleers, and Juergen Branke. Evolutionary synthesis of multi-agent systems for dynamic dial-a-ride problems. In Forrest Stonedahl and Rick Riolo, editors, *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, pages 331–336, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[VPP+12]   Costas Voglis, Grigoris S. Piperagkas, Konstantinos E. Parsopoulos, Dimitris G. Papageorgiou, and Isaac E. Lagaris. Mempsode: an empirical assessment of local search algorithm impact on a memetic algorithm using noiseless testbed. In Anne Auger, Alexandre Chotard, Nikolaus Hansen, Verena Heidrich-Meisner, Olaf Mersmann, Petr Posik, and Mike Preuss, editors, *Black box optimization benchmarking 2012 (BBOB 2012)*, pages 245–252, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[vTPD12]   Sjors van Berkel, Daniel Turi, Andrei Pruteanu, and Stefan Dulman. Automatic discovery of algorithms for multi-agent systems. In Forrest Stonedahl and Rick Riolo, editors, *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, pages 337–344, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[WC12]   C. Jason Woodard and Eric K. Clemons. Modeling technology evolution using generalized genotype-phenotype maps. In Forrest Stonedahl and Rick Riolo, editors, *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, pages 323–330, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[WFE12]   David Walker, Jonathan Fieldsend, and Richard Everson. Visualising many-objective populations. In Richard Everson, Jonathan Fieldsend, and David Walker, editors, *GECCO 2012 Visualisation methods for genetic and evolutionary computation (VizGEC)*, pages 451–458, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Win12]   Mark Wineberg. Statistical analysis for evolutionary computation: an introduction. In Gabriela Ochoa, editor, *GECCO 2012 Advanced tutorials*, pages 895–916, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[WK12]   Stefan Wagner and Gabriel Kronberger. Algorithm and experiment design with heuristic lab: an open source optimization environment for research and education. In Gabriela Ochoa, editor, *GECCO 2012 Specialized techniques and applications tutorials*, pages 1287–1316, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[WS12a]   Darrell Whitley and Andrew Sutton. Elementary landscapes: theory and applications. In Gabriela Ochoa, editor, *GECCO 2012 Advanced tutorials*, pages 941–960, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[WS12b]   John R. Woodward and Jerry Swan. The automatic generation of mutation operators for genetic algorithms. In Gisele L. Pappa, John Woodward, Matthew R. Hyde, and Jerry Swan, editors, *GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms*, pages 67–74, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[YA12]   Kwaku Yeboah-Antwi. Evolving software applications using genetic programming – pushcalc: the evolved calculator. In Sherri Goings, editor, *Tenth GECCO Undergraduate Student Workshop*, pages 569–572, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[YK12]   Du-Mim Yoon and Kyung-Joong Kim. Comparison of scoring methods for interactive evolutionary computation based image retouching system. In Katya Rodriguez and Christian Blum, editors, *GECCO 2012 Late breaking abstracts workshop*, pages 617–618, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[YNH12]   Oleksandr Yefimochkin, Rui Neves, and Nuno Horta. An evolutionary approach to define investment strategies based on macroeconomic indicators and vix data. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1539–1540, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[Zag12]   Susanne Zaglauer. The evolutionary algorithm samoa with use of dynamic constraints. In Katya Rodriguez and Christian Blum, editors, *GECCO 2012 Late breaking abstracts workshop*, pages 635–636, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[ZBBF⁺12]   Martin Zaefferer, Thomas Bartz-Beielstein, Martina Friese, Boris Naujoks, and Oliver Flasch. Multi-criteria optimization for hard problems under limited budgets. In Terry Soule, Anne Auger, Jason Moore, David Pelta, Christine Solnon, Mike Preuss, Alan Dorin, Yew-Soon Ong, Christian Blum, Dario Landa Silva, Frank Neumann, Tina Yu, Aniko Ekart, Wil Browne, Tim Kovacs, Man-Leung Wong, Clara Pizzuti, Jon Rowe, Tobias Friedrich, Giovanni Squillero, Nicolas Bredeche, Stephen Smith, Alison Motsinger-Rei, Jose Lozano, Martin Pelikan, Silja Meyer-Nienber, Christian Igel, Greg Hornby, Rene Doursat, Steve Gustafson, Gustavo Olague, Shin Yoo, John Clark, Gabriela Ochoa, Gisele Pappa, Fernando Lobo, Daniel Tauritz, Jurgen Branke, and Kalyanmoy Deb, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pages 1451–1452, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.

[ZKFH12]   Xue-Feng Zhang, Miyuki Koshimura, Hiroshi Fujita, and Ryuzo Hasegawa. Hybrid particle swarm optimization and convergence analysis for scheduling problems. In Forrest Stonedahl and Rick Riolo, editors, *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, pages 307–314, Philadelphia, Pennsylvania, USA, 7-11 July 2012. ACM.