Список литературы

- [Abdelbar and Wunsch(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1395–1396 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Aleb and Kechid(2012)] Nassima Aleb and Samir Kechid. A new framework for scalable genetic programming. In Steven Gustafson and Ekaterina Vladislavleva (eds.) GECCO 2012 Symbolic regression and modeling workshop, pp. 487–492 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Alford et al.(2012)Alford, Adams, Shelton, Bryant, Kelly, and Dozier] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1521–1522 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Amiri et al.(2012)Amiri, Hossain, and Crowford] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1445–1446 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Auger and Hansen(2012)] Anne Auger and Nikolaus Hansen. Tutorial CMA-ES: evolution strategies and covariance matrix adaptation. In Gabriela Ochoa (ed.) GECCO 2012 Advanced tutorials, pp. 827–848 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Bacardit and Llorà(2012)] Jaume Bacardit and Xavier Llorà. Large scale data mining using genetics-based machine learning. In Gabriela Ochoa (ed.) GECCO 2012 Specialized techniques and applications tutorials, pp. 1171–1196 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Baeck(2012)] Thomas Baeck. Evolution strategies: basic introduction. In Gabriela Ochoa (ed.) GECCO 2012 Introductory tutorials, pp. 711–736 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Banerjee(2012)] Amit Banerjee. Density-based evolutionary outlier detection. In Katya Rodriguez and Christian Blum (eds.) GECCO 2012 Late breaking abstracts workshop, pp. 651–652 (ACM, Philadelphia, Pennsylvania, USA, 2012).

- [Bartoli et al.(2012)Bartoli, Davanzo, De Lorenzo, Mauri, Medvet, and Sorio] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1477–1478 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Bartz-Beielstein et al.(2012)Bartz-Beielstein, Flasch, and Zaefferer] Thomas Bartz-Beielstein, Oliver Flasch, and Martin Zaefferer. Sequential parameter optimization for symbolic regression. In Steven Gustafson and Ekaterina Vladislavleva (eds.) GECCO 2012 Symbolic regression and modeling workshop, pp. 495–496 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Bazargani et al.(2012)Bazargani, Anjos, Lobo, Mollahosseini, and Shahbazkia] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1459–1460 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Bazzan(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1523–1524 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Beham et al.(2012)Beham, Pitzer, Wagner, Affenzeller, Altendorfer, Felberbauer, and Bäck] 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 (eds.) GECCO 2012 Evolutionary Computation Software Systems (EvoSoft), pp. 125–132 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Behzadan and Smith(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic

- and evolutionary computation conference companion, pp. 1491–1492 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Beliveau et al.(2012)Beliveau, Hornby, and Bongard] Paul Beliveau, Greg Hornby, and Josh Bongard. Interactive simulated robot construction and controller evolution. In Katya Rodriguez and Christian Blum (eds.) GECCO 2012 Late breaking abstracts workshop, pp. 627–628 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Benbassat and Sipper(2012)] Amit Benbassat and Moshe Sipper. Evolving players that use selective game-tree search with genetic programming. In Katya Rodriguez and Christian Blum (eds.) GECCO 2012 Late breaking abstracts workshop, pp. 631–632 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Bernstein(2012)] Omri Bernstein. Flea market simulator: a market simulator for experiments on the computational evolution of trading strategies for economic agents. In Sherri Goings (ed.) Tenth GECCO Undergraduate Student Workshop, pp. 549–554 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Bevilacqua et al.(2012)Bevilacqua, Filograno, Fiorentino, and Uva] 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 (eds.) GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC), pp. 531–538 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Bongard et al.(2012)Bongard, Beliveau, and Hornby] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1405–1406 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Brockhoff et al.(2012)Brockhoff, Auger, and Hansen] 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 Mike Preuss (eds.) Black box optimization benchmarking 2012 (BBOB 2012), pp. 277–284 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Burjorjee(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1461–1462 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Bush(2012)] William S. Bush. Introduction to bioinformatics and computational biology. In Gabriela Ochoa (ed.) GECCO 2012 Specialized techniques and applications tutorials, pp. 1141–1170 (ACM, Philadelphia, Pennsylvania, USA, 2012).

- [Buzdalov and Sokolov(2012)] Maxim Buzdalov and Andrey Sokolov. Evolving EFSMs solving a pathplanning problem by genetic programming. In Alison Motsinger-Reif (ed.) GECCO 2012 Graduate Students Workshop, pp. 591–594 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Byers et al.(2012)Byers, Cheng, and McKinley] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1407–1408 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Cagnoni et al.(2012)Cagnoni, Cordón, Mesejo, Nashed, and Ugolotti] 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 (eds.) GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC), pp. 509–516 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Carneiro and Oliveira(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1433–1434 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Castellini et al.(2012)Castellini, Manca, Zucchelli, and Busato] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1415–1416 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Cavalcante et al.(2012)Cavalcante, Aquino, Pappa, and Loureiro] 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 (eds.) GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC), pp. 27–34 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Celis and Bongard(2012)] Shane Eric Celis and Josh Bongard. Not all physics simulators can be wrong in the same way. In Katya Rodriguez and Christian Blum (eds.) GECCO 2012 Late breaking abstracts workshop, pp. 659–660 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Chen et al.(2012)Chen, Zhang, and Liu] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1543–1544 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Chivilikhin et al.(2012)Chivilikhin, Ulyantsev, and Tsarev] 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 (ed.) GECCO 2012 Graduate Students Workshop, pp. 603–606 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Chuang and Chen(2012)] 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 (eds.) Black box optimization benchmarking 2012 (BBOB 2012), pp. 167–174 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Coello Coello (2012)] Carlos Artemio Coello Coello. Constraint-handling techniques used with evolutionary algorithms. In Gabriela Ochoa (ed.) GECCO 2012 Advanced tutorials, pp. 849–872 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Coletti(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1505–1506 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Collet and Harding(2012)] Pierre Collet and Simon Harding. Evolutionary algorithms and genetic programming on graphic processing units (GPU). In Gabriela Ochoa (ed.) GECCO 2012 Specialized techniques and applications tutorials, pp. 1117–1138 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Comis Da Ronco and Benini(2012)] 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 (eds.) GECCO 2012 Late breaking abstracts workshop, pp. 619–620 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Connelly et al.(2012)Connelly, Zaman, and McKinley] Brian D. Connelly, Luis Zaman, and Philip K. McKinley. The SEEDS platform for evolutionary and ecological simulations. In Stefan Wagner and Michael Affenzeller (eds.) GECCO 2012 Evolutionary Computation Software Systems (EvoSoft), pp. 133–140 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Correia et al.(2012)Correia, Machado, and Romero] 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 (eds.) *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1479–1480 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Darvish et al.(2012)Darvish, Rahnamayan, and Mohamad] 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 (eds.) GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC), pp. 501–508 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [De Jong(2012)] Kenneth De Jong. Evolutionary computation: a unified approach. In Gabriela Ochoa (ed.) GECCO 2012 Introductory tutorials, pp. 737–750 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [de Melo(2012)] 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 (eds.) Black box optimization benchmarking 2012 (BBOB 2012), pp. 183–188 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [de Oliveira Barros et al.(2012)de Oliveira Barros, Costa, Figueiredo, and Cavalcanti da Rocha] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1541–1542 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [De Rainville et al.(2012)De Rainville, Fortin, Gardner, Parizeau, and Gagné] 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 (eds.) GECCO 2012 Evolutionary Computation Software Systems (EvoSoft), pp. 85–92 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Dobslaw(2012)] Felix Dobslaw. *INPUT: the intelligent parameter utilization tool.* In Stefan Wagner and Michael Affenzeller (eds.) *GECCO 2012 Evolutionary Computation Software Systems* (EvoSoft), pp. 149–156 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Doerr(2012)] Benjamin Doerr. Black-box complexity: from complexity theory to playing mastermind. In Gabriela Ochoa (ed.) GECCO 2012 Specialized techniques and applications tutorials, pp. 1079–1092 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Doncieux et al.(2012)Doncieux, Jin, and Mouret] Stephane Doncieux, Yaochu Jin, and Jean-Baptiste Mouret. Evo-devo-robo workshop program. In Stephane Doncieux, Yaochu Jin, and Jean-Baptiste Mouret (eds.) GECCO 2012 Evolutionary developmental robotics, pp. 355–356 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Dumas et al.(2012)Dumas, Boutouyrie, and Bozec] 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 (eds.) GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC), pp. 517–522 (ACM, Philadelphia, Pennsylvania, USA, 2012).

- [Ellabaan and Ong(2012)] 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 (eds.) GECCO 2012 Late breaking abstracts workshop, pp. 623–624 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [English et al.(2012)English, Petruso, and Wang] Amanda English, Holly Petruso, and Chong Wang. Grammatical evolution decision trees for trio designs. In Sherri Goings (ed.) Tenth GECCO Undergraduate Student Workshop, pp. 559–562 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Fagan et al.(2012)Fagan, Hemberg, Nicolau, O'Neill, and McGarraghy] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1481–1482 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Fernandes et al.(2012)Fernandes, Mora, Merelo, Fernández, and Rosa] 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 (eds.) GECCO 2012 Visualisation methods for genetic and evolutionary computation (VizGEC), pp. 435–442 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Fonlupt and Robilliard(2012)] Cyril Fonlupt and Denis Robilliard. Combining programs to counter code disruption. In Katya Rodriguez and Christian Blum (eds.) GECCO 2012 Late breaking abstracts workshop, pp. 643–644 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Forrest and LeGoues(2012)] Stephanie Forrest and Claire LeGoues. Evolutionary software repair. In Gabriela Ochoa (ed.) GECCO 2012 Specialized techniques and applications tutorials, pp. 1345–1348 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Fredivianus et al.(2012)Fredivianus, Kara, and Schmeck] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1493–1494 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Fu et al.(2012)Fu, Johnston, and Zhang] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1483–1484 (ACM, Philadelphia, Pennsylvania, USA, 2012).

- [Gagne(2012)] David J. Gagne. GAMIV: a genetic algorithm for identifying variable-lengthmotifs in noncoding DNA. In Sherri Goings (ed.) Tenth GECCO Undergraduate Student Workshop, pp. 555–558 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Gao and Lv(2012)] Yifeng Gao and Dan Lv. Principal coordinate strategy: a novel adaptive control strategy for differential evolution. In Sherri Goings (ed.) Tenth GECCO Undergraduate Student Workshop, pp. 573–578 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [García et al.(2012)García, Gutiérrez, Velázquez, Ponsich, Ángel Gutiérrez Andrade, and De Los Cobos Silval 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1439–1440 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Garrett(2012)] Deon Garrett. A call for collaborative landscape analysis. In Kent McClymont and Ed Keedwell (eds.) 1st workshop on Understanding Problems (GECCO-UP), pp. 409–416 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Goldman and Tauritz(2012)] Brian W. Goldman and Daniel R. Tauritz. Supportive coevolution. In Gisele L. Pappa, John Woodward, Matthew R. Hyde, and Jerry Swan (eds.) GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms, pp. 59–66 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Gomez et al.(2012)Gomez, Koutník, and Schmidhuber] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1455–1456 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Goodman(2012)] Erik D. Goodman. Introduction to genetic algorithms. In Gabriela Ochoa (ed.) GECCO 2012 Introductory tutorials, pp. 671–692 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Gullo et al.(2012)Gullo, Talukder, Luke, Domeniconi, and Tagarelli] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1495–1496 (ACM, Philadelphia, Pennsylvania, USA, 2012).

- [Han(2012)] Sen Han. Batting order optimization by genetic algorithm. In Alison Motsinger-Reif (ed.) GECCO 2012 Graduate Students Workshop, pp. 599–602 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Harrington et al.(2012)Harrington, Spector, Pollack, and O'Reilly] 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 (eds.) GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms, pp. 75–82 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Helmi et al.(2012)Helmi, Pelikan, and Rahmani] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1429–1430 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Helmuth and Spector(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1485–1486 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Hemberg et al.(2012)Hemberg, Veeramachaneni, and O'Reilly] 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 (eds.) GECCO 2012 Symbolic regression and modeling workshop, pp. 493–494 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Ho and Yu(2012)] Tsung-Yu Ho and Tian-Li Yu. A linkage-learning niching in estimation of distribution algorithm. In Katya Rodriguez and Christian Blum (eds.) GECCO 2012 Late breaking abstracts workshop, pp. 649–650 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Hoover et al.(2012)Hoover, Marceau, Harris, Reif, and Motsinger-Reif] 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 (ed.) GECCO 2012 Graduate Students Workshop, pp. 611–614 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Hsueh and Yu(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1427–1428 (ACM, Philadelphia, Pennsylvania, USA, 2012).

- [hui Zhan and Zhang(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1513–1514 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Hutterer et al.(2012)Hutterer, Affenzeller, and Auinger] 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 (eds.) GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC), pp. 3–10 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Iclanzan et al.(2012)Iclanzan, Gaskó, and Dumitrescu] David Iclanzan, Noémi Gaskó, and D. Dumitrescu. Evolving mixed nash equilibria for bimatrix games. In Katya Rodriguez and Christian Blum (eds.) GECCO 2012 Late breaking abstracts workshop, pp. 655–656 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Ismail et al.(2012)Ismail, Legras, and Coppin] Sahbi Ben Ismail, François Legras, and Gilles Coppin. A new interactive evolutionary algorithm for the vehicle routing problem. In Katya Rodriguez and Christian Blum (eds.) GECCO 2012 Late breaking abstracts workshop, pp. 661–668 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Jansen and Zarges (2012)] Thomas Jansen and Christine Zarges. Artificial immune systems for optimisation. In Gabriela Ochoa (ed.) GECCO 2012 Specialized techniques and applications tutorials, pp. 1059–1078 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Jebari et al.(2012) Jebari, Bouroumi, and Ettouhami] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1507–1508 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Jimbo and Craven(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1417–1418 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Joachimczak et al.(2012)Joachimczak, Kowaliw, Doursat, and Wróbel] 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 (eds.) GECCO 2012 Evolutionary developmental robotics, pp. 357–360 (ACM, Philadelphia, Pennsylvania, USA, 2012).

- [Julstrom(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1463–1464 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Kaliakatsos-Papakostas et al.(2012)Kaliakatsos-Papakostas, Floros, Kanellopoulos, and Vrahatis]
 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 (eds.) GECCO 2012 Evolutionary music, pp. 461–468
 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Kattan and Fatima(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1435–1436 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Kim and Moon(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1527–1528 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Knudson and Tumer(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1411–1412 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Komiya et al.(2012)Komiya, Noman, and Iba] 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 (eds.) *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1419–1420 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Kommenda et al.(2012)Kommenda, Kronberger, Wagner, Winkler, and Affenzeller] 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 (eds.) GECCO 2012 Evolutionary Computation Software Systems (EvoSoft), pp. 101–108 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Kotanchek(2012)] Mark Kotanchek. Robust function discovery and feature selection for life sciences and engineering. In Steven Gustafson and Ekaterina Vladislavleva (eds.) GECCO 2012 Symbolic regression and modeling workshop, pp. 497–498 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Krawiec and Pawlak(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1487–1488 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Kromer et al.(2012)Kromer, Prokop, Snasel, Misak, Platos, and Abraham] 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 (eds.) GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC), pp. 35–42 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Kuehn(2012)] Timothy J. Kuehn. Evolutionary fabrication: a system of autonomous invention. In Sherri Goings (ed.) Tenth GECCO Undergraduate Student Workshop, pp. 579–584 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Lee et al.(2012)Lee, Teng, and Hsiao] 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 (eds.) Fifteenth international workshop on learning classifier systems (ICWLS), pp. 375–382 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Lehre(2012)] Per Kristian Lehre. *Drift analysis*. In Gabriela Ochoa (ed.) *GECCO 2012 Specialized techniques and applications tutorials*, pp. 1239–1258 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Liao et al.(2012)Liao, Molina, Stutzle, Montes de Oca, and Dorigo] 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 (eds.) Black box optimization benchmarking 2012 (BBOB 2012), pp. 159–166 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Loiacono and Preuß(2012)] Daniele Loiacono and Mike Preuß. Computational intelligence in games. In Gabriela Ochoa (ed.) GECCO 2012 Specialized techniques and applications tutorials, pp. 1139–1140 (ACM, Philadelphia, Pennsylvania, USA, 2012).

- [long Li et al.(2012)long Li, Zhang, and neng Chen] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1509–1510 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Longo et al.(2012)Longo, Montévil, and Kauffman] Giuseppe Longo, Maël Montévil, and Stuart Kauffman. No entailing laws, but enablement in the evolution of the biosphere. In Jason H. Moore (ed.) GECCO 2012 Keynote talks, pp. 1379–1392 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [López-Camacho et al.(2012)López-Camacho, Terashima-Marín, and Conant-Pablos] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1545–1546 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Loshchilov et al.(2012)Loshchilov, Schoenauer, and Sebag] 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 (eds.) Black box optimization benchmarking 2012 (BBOB 2012), pp. 175–182 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Lourenço et al.(2012)Lourenço, Pereira, and Costa] Nuno Lourenço, Francisco Pereira, and Ernesto Costa. Evolving evolutionary algorithms. In Gisele L. Pappa, John Woodward, Matthew R. Hyde, and Jerry Swan (eds.) GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms, pp. 51–58 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Mani et al.(2012)Mani, Srivastava, Sinha, and Mani] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1437–1438 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Manukyan et al.(2012)Manukyan, Eppstein, Horbar, Leahy, Kenny, Mukherjee, and Rizzo] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1547–1548 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Marvel and Motsinger-Reif(2012)] Skylar Marvel and Alison Motsinger-Reif. Grammatical evolution support vector machines for predicting human genetic disease association. In Alison Motsinger-Reif (ed.) GECCO 2012 Graduate Students Workshop, pp. 595–598 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Matoso et al.(2012)Matoso, Junior, Pereira, Veloso, and Wagner Meira] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1447–1448 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Maturana et al.(2012)Maturana, Vergara, Rojas, Saubion, Vargas, and Vidal] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1511–1512 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [McClymont et al.(2012)McClymont, Walker, and Dupenois] Kent McClymont, David Walker, and Max Dupenois. The lay of the land: a brief survey of problem understanding. In Kent McClymont and Ed Keedwell (eds.) 1st workshop on Understanding Problems (GECCO-UP), pp. 425–432 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Merelo et al.(2012)Merelo, Fernandes, Mora, and Esparcia] 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 (eds.) GECCO 2012 Evolutionary Computation Software Systems (EvoSoft), pp. 109–116 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Merelo-Guervós et al.(2012)Merelo-Guervós, Mora, Esparcia, and Fernandes] 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 (eds.) *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1517–1518 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Miller and Harding (2012)] Julian Francis Miller and Simon Harding. GECCO 2012 tutorial: cartesian genetic programming. In Gabriela Ochoa (ed.) GECCO 2012 Specialized techniques and applications tutorials, pp. 1093–1116 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Mlakar et al.(2012)Mlakar, Tuaar, and Filipić] Miha Mlakar, Tea Tuaar, and Bogdan Filipić. Discrete vs. continuous multiobjective optimization of continuous casting of steel. In Alison Motsinger-Reif (ed.) GECCO 2012 Graduate Students Workshop, pp. 587–590 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Moraglio(2012)] Alberto Moraglio. Geometry of evolutionary algorithms. In Gabriela Ochoa (ed.) GECCO 2012 Specialized techniques and applications tutorials, pp. 1317–1344 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Mukherjee and Eppstein(2012)] Shreya Mukherjee and Margaret J. Eppstein. Differential evolution of constants in genetic programming improves efficacy and bloat. In Katya Rodriguez and Christian Blum (eds.) GECCO 2012 Late breaking abstracts workshop, pp. 625–626 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Nashed et al.(2012)Nashed, Ugolotti, Mesejo, and Cagnoni] 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 (eds.) *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, pp. 117–124 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Nasir et al.(2012)Nasir, Sengupta, Das, and Das] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1443–1444 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Neumann and Witt(2012)] Frank Neumann and Carsten Witt. Bioinspired computation in combinatorial optimization: algorithms and their computational complexity. In Gabriela Ochoa (ed.) GECCO 2012 Advanced tutorials, pp. 1035–1058 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Nobile et al.(2012)Nobile, Besozzi, Cazzaniga, Mauri, and Pescini] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1421–1422 (ACM, Philadelphia, Pennsylvania, USA, 2012).

- [Noroozi et al.(2012)Noroozi, Hashemi, and Meybodi] Vahid Noroozi, Ali В. Hashemi. 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1519–1520 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Nourashrafeddin et al.(2012)Nourashrafeddin, Arnold, and Milios] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1497–1498 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Ochoa(2012)] Gabriela Ochoa. Hyper-heuristics and cross-domain optimization. In Gabriela Ochoa (ed.) GECCO 2012 Specialized techniques and applications tutorials, pp. 1197–1214 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Oliwa and Rasheed(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1467–1468 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Ollion et al.(2012)Ollion, Pinville, and Doncieux] 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 (eds.) GECCO 2012 Evolutionary developmental robotics, pp. 369–372 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Ono and Nakayama(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1529–1530 (ACM, Philadelphia, Pennsylvania, USA, 2012).

- [O'Reilly(2012)] Una-May O'Reilly. Genetic programming: a tutorial introduction. In Gabriela Ochoa (ed.) GECCO 2012 Introductory tutorials, pp. 693–710 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Otero et al.(2012)Otero, Castle, and Johnson] Fernando Otero, Tom Castle, and Colin Johnson. EpochX: genetic programming in java with statistics and event monitoring. In Stefan Wagner and Michael Affenzeller (eds.) GECCO 2012 Evolutionary Computation Software Systems (EvoSoft), pp. 93–100 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Ozisik and Harrington(2012)] A. Pinar Ozisik and Kyle I. Harrington. The effects of tags on the evolution of honest signaling. In Forrest Stonedahl and Rick Riolo (eds.) GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS), pp. 345–352 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Padhye(2012)] 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 (eds.) GECCO 2012 Real world applications of evolutionary computation, pp. 43–48 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Palafox and Hitoshi(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1423–1424 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Palmer and Chou(2012)] 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 (eds.) GECCO 2012 Evolutionary developmental robotics, pp. 361–364 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Pascalie et al.(2012)Pascalie, Lobjois, Luga, Ducommun, and Duthen] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1425–1426 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Pelikan(2012)] Martin Pelikan. Probabilistic model-building genetic algorithms. In Gabriela Ochoa (ed.) GECCO 2012 Introductory tutorials, pp. 777–804 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Phan et al.(2012)Phan, Suzuki, Carroll, Balasubramaniam, Donnelly, and Botvich] 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 (eds.) GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC), pp. 19–26 (ACM, Philadelphia, Pennsylvania, USA, 2012).

- [Pilat and Neruda(2012)] Martin Pilat and Roman Neruda. A surrogate multiobjective evolutionary strategy with local search and pre-selection. In Katya Rodriguez and Christian Blum (eds.) GECCO 2012 Late breaking abstracts workshop, pp. 633–634 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Pinto and Horta(2012)] José Pinto and Nuno Horta. Automated passive filter design using multiobjective 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 MeyerNienber, 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international
 conference on Genetic and evolutionary computation conference companion, pp. 1531–1532
 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Pitzer et al.(2012)Pitzer, Beham, and Affenzeller] 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 (eds.) 1st workshop on Understanding Problems (GECCO-UP), pp. 393–400 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Poaík and Klema(2012)] 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 (eds.) Black box optimization benchmarking 2012 (BBOB 2012), pp. 189–196 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Porta and Julstrom(2012)] 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 (eds.) GECCO 2012 Late breaking abstracts workshop, pp. 639–640 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Quiroz et al.(2012)Quiroz, Banerjee, and Louis] Juan C. Quiroz, Amit Banerjee, and Sushil J. Louis. 3-D modeling using collaborative evolution. In Katya Rodriguez and Christian Blum (eds.) GECCO 2012 Late breaking abstracts workshop, pp. 653–654 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Rafael et al.(2012)Rafael, Affenzeller, and Wagner] 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 (eds.) GECCO 2012 Evolutionary music, pp. 469–476 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Rajasekhar et al.(2012)Rajasekhar, Das, and Das] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1399–1400 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Rand et al.(2012)Rand, Tantar, Tantar, Bosman, Padhye, Baughman, Van Der Stock, Perlitz, Gustafson, Jesneck, Papp 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 (eds.). GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion (Philadelphia, Pennsylvania, USA, 2012).
- [Ranjeet et al.(2012)Ranjeet, Hingston, Lam, and Masek] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1469–1470 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Raway et al.(2012)Raway, Schaffer, Kurtz, and Sayama] 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 (eds.) GECCO 2012 Late breaking abstracts workshop, pp. 657–658 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Regis(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1431–1432 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Reis et al.(2012)Reis, Fernandéz, and Ferreira] Gustavo Reis, Francisco Fernandéz, and Aníbal Ferreira. Evolutionary algorithms and automatic transcription of music. In F. Fernandez de Vega and Carlos Cotta (eds.) GECCO 2012 Evolutionary music, pp. 477–484 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Richard and Majercik(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1401–1402 (ACM, Philadelphia, Pennsylvania, USA, 2012).

- [Rieffel and Smith(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1457–1458 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Rocki and Suda(2012)] Kamil Rocki and Reiji Suda. An efficient GPU implementation of a multistart 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1441–1442 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Rogalsky(2012)] Tim Rogalsky. Bezier control parameterization for evolutionary optimization in disease models. In Stephen L. Smith, Stefano Cagnoni, and Robert M. Patton (eds.) GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC), pp. 523-530 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Rothlauf(2012)] Franz Rothlauf. Representations for evolutionary algorithms. In Gabriela Ochoa (ed.) GECCO 2012 Advanced tutorials, pp. 873–894 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Rowe(2012)] Jonathan E. Rowe. Genetic algorithm theory. In Gabriela Ochoa (ed.) GECCO 2012 Advanced tutorials, pp. 917–940 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Rudinac et al.(2012)Rudinac, Lenseigne, and Jonker] Maja Rudinac, Boris Lenseigne, and Pieter P. Jonker. Empirical mode decomposition for saliency detection. In Stephane Doncieux, Yaochu Jin, and Jean-Baptiste Mouret (eds.) GECCO 2012 Evolutionary developmental robotics, pp. 365–368 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Ryerkerk et al.(2012)Ryerkerk, Averill, Deb, and Goodman] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1471–1472 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Santana et al.(2012)Santana, Mendiburu, and Lozano] 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 (eds.) *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1473–1474 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Schaul(2012)] 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 (eds.) Black box optimization benchmarking 2012 (BBOB 2012), pp. 205–212 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Scheibenpflug et al.(2012)Scheibenpflug, Wagner, Pitzer, and Affenzeller] 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 (eds.) GECCO 2012 Evolutionary Computation Software Systems (EvoSoft), pp. 141–148 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Schneider(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1501–1502 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Schoonover(2012)] Carl Edward Schoonover. How to look inside the brain. In Jason H. Moore (ed.) GECCO 2012 Keynote talks, pp. 1393–1394 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Semenov and Stratonowitch(2012)] Mikhail A. Semenov and Pierre Stratonowitch. Application of evolutionary algorithms for model calibration. In Katya Rodriguez and Christian Blum (eds.) GECCO 2012 Late breaking abstracts workshop, pp. 621–622 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Sepúlveda et al.(2012)Sepúlveda, Chau, Strum, Pedraza, Gogniat, and Pires] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1449–1450 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Setayesh et al.(2012)Setayesh, Zhang, and Johnston] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1403–1404 (ACM, Philadelphia, Pennsylvania, USA, 2012).

- [Shafiee and Zechman(2012)] Ehsan Shafiee and Emily Zechman. Integrating evolutionary computation and sociotechnical simulation for flushing contaminated water distribution systems. In Forrest Stonedahl and Rick Riolo (eds.) GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS), pp. 315–322 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Sher(2012)] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1533–1534 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Soltero et al.(2012)Soltero, Bodas-Sagi, Fernández-Blanco, Hidalgo, and de Vega] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1535–1536 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [soo Park and Kim(2012)] Hyun soo Park and Kyung Joong Kim. Automatic python programming using stack-based genetic programming. In Katya Rodriguez and Christian Blum (eds.) GECCO 2012 Late breaking abstracts workshop, pp. 641–642 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Spector(2012)] Lee Spector. Assessment of problem modality by differential performance of lexicase selection in genetic programming: a preliminary report. In Kent McClymont and Ed Keedwell (eds.) 1st workshop on Understanding Problems (GECCO-UP), pp. 401–408 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Srivastava et al.(2012)Srivastava, Schmidhuber, and Gomez] Rupesh Kumar Srivastava, Jürgen Schmidhuber, and Faustino Gomez. Generalized compressed network search. In Katya Rodriguez and Christian Blum (eds.) GECCO 2012 Late breaking abstracts workshop, pp. 647–648 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Stanley(2012)] Kenneth O. Stanley. Evolving neural networks. In Gabriela Ochoa (ed.) GECCO 2012 Introductory tutorials, pp. 805–826 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Suciu et al.(2012)Suciu, Cremene, Pop, and Dumitrescu] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1537–1538 (ACM, Philadelphia, Pennsylvania, USA, 2012).

- [Sudholt(2012)] Dirk Sudholt. Theory of swarm intelligence. In Gabriela Ochoa (ed.) GECCO 2012 Specialized techniques and applications tutorials, pp. 1215–1238 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Sun et al.(2012)Sun, Pfahringer, and Mayo] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1503–1504 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Tan et al.(2012)Tan, Deklerck, Jansen, and Cornelis] 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 (eds.) GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC), pp. 539–546 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Thompson(2012)] 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 (ed.) Tenth GECCO Undergraduate Student Workshop, pp. 563–568 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Tinós(2012)] Renato Tinós. Analysing fitness landscape changes in evolutionary robots. In Kent McClymont and Ed Keedwell (eds.) 1st workshop on Understanding Problems (GECCO-UP), pp. 385–392 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Tosch and Spector(2012)] 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 (eds.) 1st workshop on Understanding Problems (GECCO-UP), pp. 417–424 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Toutouh and Alba(2012)] Jamal Toutouh and Enrique Alba. Green OLSR in VANETs with differential evolution. In Alexandru-Adrian Tantar, Emilia Tantar, and Peter A.N. Bosman (eds.) GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC), pp. 11–18 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Trujillo et al.(2012)Trujillo, Martinez, Lopez, and Legrand] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1489–1490 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Tsai et al.(2012)Tsai, Lin, Chiang, Yang, and Hong] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1475–1476 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Tsutsui and Fujimoto(2012)] Shigeyoshi Tsutsui and Noriyuki Fujimoto. On the effect of using multiple GPUs in solving QAPs with CUDA. In Katya Rodriguez and Christian Blum (eds.) GECCO 2012 Late breaking abstracts workshop, pp. 629–630 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [van Berkel et al.(2012)van Berkel, Turi, Pruteanu, and Dulman] Sjors van Berkel, Daniel Turi, Andrei Pruteanu, and Stefan Dulman. Automatic discovery of algorithms for multi-agent systems. In Forrest Stonedahl and Rick Riolo (eds.) GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS), pp. 337–344 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [van Lon et al.(2012)van Lon, Holvoet, Vanden Berghe, Wenseleers, and Branke] 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 (eds.) GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS), pp. 331–336 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Verel(2012)] Sébastien Verel. Fitness landscapes and graphs: multimodularity, ruggedness and neutrality. In Gabriela Ochoa (ed.) GECCO 2012 Advanced tutorials, pp. 1013–1034 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Voglis et al.(2012)Voglis, Piperagkas, Parsopoulos, Papageorgiou, and Lagaris] 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 (eds.) Black box optimization benchmarking 2012 (BBOB 2012), pp. 245–252 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Wagner and Kronberger(2012)] Stefan Wagner and Gabriel Kronberger. Algorithm and experiment design with heuristic lab: an open source optimization environment for research and education. In Gabriela Ochoa (ed.) GECCO 2012 Specialized techniques and applications tutorials, pp. 1287–1316 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Walker et al.(2012)Walker, Fieldsend, and Everson] David Walker, Jonathan Fieldsend, and Richard Everson. Visualising many-objective populations. In Richard Everson, Jonathan Fieldsend, and David Walker (eds.) GECCO 2012 Visualisation methods for genetic and evolutionary computation (VizGEC), pp. 451–458 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Whitley and Sutton(2012)] Darrell Whitley and Andrew Sutton. Elementary landscapes: theory and applications. In Gabriela Ochoa (ed.) GECCO 2012 Advanced tutorials, pp. 941–960 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Wineberg(2012)] Mark Wineberg. Statistical analysis for evolutionary computation: an introduction. In Gabriela Ochoa (ed.) GECCO 2012 Advanced tutorials, pp. 895–916 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Woodard and Clemons(2012)] C. Jason Woodard and Eric K. Clemons. Modeling technology evolution using generalized genotype-phenotype maps. In Forrest Stonedahl and Rick Riolo (eds.) GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS), pp. 323–330 (ACM, Philadelphia, Pennsylvania, USA, 2012).

- [Woodward and Swan(2012)] 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 (eds.) GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms, pp. 67–74 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Yeboah-Antwi(2012)] Kwaku Yeboah-Antwi. Evolving software applications using genetic programming PushCalc: the evolved calculator. In Sherri Goings (ed.) Tenth GECCO Undergraduate Student Workshop, pp. 569–572 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Yefimochkin et al.(2012)Yefimochkin, Neves, and Horta] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1539–1540 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Yoon and Kim(2012)] 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 (eds.) GECCO 2012 Late breaking abstracts workshop, pp. 617–618 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Zaefferer et al.(2012)Zaefferer, Bartz-Beielstein, Friese, Naujoks, and Flasch] 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 (eds.) GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, pp. 1451–1452 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Zaglauer(2012)] Susanne Zaglauer. The evolutionary algorithm SAMOA with use of dynamic constraints. In Katya Rodriguez and Christian Blum (eds.) GECCO 2012 Late breaking abstracts workshop, pp. 635–636 (ACM, Philadelphia, Pennsylvania, USA, 2012).
- [Zhang et al.(2012)Zhang, Koshimura, Fujita, and Hasegawa] 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 (eds.) *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, pp. 307–314 (ACM, Philadelphia, Pennsylvania, USA, 2012).