## Список литературы

- [Akimoto and Auger(2015)] Youhei Akimoto and Anne Auger. 2015. Theory of evolution strategies and related algorithms. In *GECCO 2015 Advanced Tutorials*, pages 575–588, Madrid, Spain. ACM.
- [Akimoto et al.(2015)Akimoto, Auger, and Hansen] Youhei Akimoto, Anne Auger, and Nikolaus Hansen. 2015. Continuous optimization and cma-es. In *GECCO 2015 Introductory Tutorials*, pages 313–344, Madrid, Spain. ACM.
- [Alba(2015)] Enrique Alba. 2015. Intelligent systems for smart cities. In GECCO 2015 Specialized Tutorials, pages 707–722, Madrid, Spain. ACM.
- [Aljawawdeh et al.(2015)Aljawawdeh, Simons, and Odeh] Hamzeh J. Aljawawdeh, Christopher L. Simons, and Mohammed Odeh. 2015. Metaheuristic design pattern: Preference. In GECCO 2015 2nd Workshop on Metaheuristic Design Patterns (MetaDeeP'15), pages 1257–1260, Madrid, Spain. ACM.
- [Altin et al.(2015)Altin, Topcuoglu, and Ermis] Lokman Altin, Haluk Rahmi Topcuoglu, and Murat Ermis. 2015. Evolutionary dynamic optimization techniques for marine contamination problem. In SecDef'2015 Workshop on genetic and evolutionary computation in defense, security and risk management, pages 889–892, Madrid, Spain. ACM.
- [Alyahya and Rowe(2015)] Khulood Alyahya and Jonathan E. Rowe. 2015. Landscape properties of the 0-1 knapsack problem. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1343–1344, Madrid, Spain. ACM.
- [Ameca-Alducin et al.(2015)Ameca-Alducin, Mezura-Montes, and Cruz-Ramirez] Maria-Yaneli Ameca-Alducin, Efren Mezura-Montes, and Nicandro Cruz-Ramirez. 2015. Differential evolution with a repair method to solve dynamic constrained optimization problems. In *GECCO'15 Student Workshop*, pages 1169–1172, Madrid, Spain. ACM.
- [Araujo et al.(2015) Araujo, Martinez-Romo, and Duque] Lourdes Araujo, Juan Martinez-Romo, and Andres Duque. 2015. Grammatical evolution for identifying wikipedia taxonomies. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1345–1346, Madrid, Spain. ACM.
- [Astete-Morales et al.(2015)Astete-Morales, Cauwet, and Teytaud] Sandra Astete-Morales, Marie-Liesse Cauwet, and Olivier Teytaud. 2015. Criteria and convergence rates in noisy optimization. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1347–1348, Madrid, Spain. ACM.
- [Atamna(2015)] Asma Atamna. 2015. Benchmarking ipop-cma-es-tpa and ipop-cma-es-msr on the bbob noiseless testbed. In *Black Box Optimization Benchmarking (BBOB 2015) Workshop*, pages 1135–1142, Madrid, Spain. ACM.
- [Atilgan and Hu(2015)] Emrah Atilgan and Jianjun Hu. 2015. A combinatorial genetic algorithm for computational doping based material design. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1349–1350, Madrid, Spain. ACM.
- [Auerbach et al.(2015)Auerbach, Heitz, Kornatowski, and Floreano] Joshua E. Auerbach, Gregoire Heitz, Przemyslaw M. Kornatowski, and Dario Floreano. 2015. Rapid evolution of robot gaits. In *GECCO 2015 Late-Breaking Abstracts*, pages 743–744, Madrid, Spain. ACM.
- [Ayodele et al.(2015)Ayodele, McCall, and Regnier-Coudert] Mayowa Ayodele, John McCall, and Olivier Regnier-Coudert. 2015. Probabilistic model enhanced genetic algorithm for multi-mode resource constrained project scheduling problem. In *GECCO 2015 Late-Breaking Abstracts*, pages 745–746, Madrid, Spain. ACM.

- [Bajer et al.(2015a)Bajer, Pitra, and Holena] Lukas Bajer, Zbynek Pitra, and Martin Holena. 2015a. Benchmarking gaussian processes and random forests surrogate models on the bbob noiseless testbed. In *Black Box Optimization Benchmarking (BBOB 2015) Workshop*, pages 1143–1150, Madrid, Spain. ACM.
- [Bajer et al.(2015b)Bajer, Pitra, and Holena] Lukas Bajer, Zbynek Pitra, and Martin Holena. 2015b. Investigation of gaussian processes and random forests as surrogate models for evolutionary black-box optimization. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1351–1352, Madrid, Spain. ACM.
- [Baldominos et al.(2015)Baldominos, Saez, and Isasi] Alejandro Baldominos, Yago Saez, and Pedro Isasi. 2015. Feature set optimization for physical activity recognition using genetic algorithms. In GECCO 2015 Medical Applications of Genetic and Evolutionary Computation (MedGEC'15) Workshop, pages 1311–1318, Madrid, Spain. ACM.
- [Bankovic and Lopez-Garcia(2015)] Zorana Bankovic and Pedro Lopez-Garcia. 2015. Energy efficient allocation and scheduling for dvfs-enabled multicore environments using a multiobjective evolutionary algorithm. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1353–1354, Madrid, Spain. ACM.
- [Benbassat and Henik(2015)] Amit Benbassat and Avishai Henik. 2015. Examining the stroop effect using a developmental spatial neuroevolution system. In *GECCO 2015 Late-Breaking Abstracts*, pages 747–748, Madrid, Spain. ACM.
- [Berger et al.(2015)Berger, Andino, Danise, and Rieffel] Benjamin Berger, Alvin Andino, Andrew Danise, and John Rieffel. 2015. Growing and evolving vibrationally actuated soft robots. In *GECCO'15 Student Workshop*, pages 1221–1224, Madrid, Spain. ACM.
- [Bernatskiy and Bongard(2015)] Anton Bernatskiy and Joshua C. Bongard. 2015. Exploiting the relationship between structural modularity and sparsity for faster network evolution. In *GECCO'15 Student Workshop*, pages 1173–1176, Madrid, Spain. ACM.
- [Berny(2015)] Arnaud Berny. 2015. Herding evolutionary algorithm. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1355–1356, Madrid, Spain. ACM.
- [Bokhari and Wagner (2015)] Mahmoud Bokhari and Markus Wagner. 2015. Improving test coverage of formal verification systems via beam search. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1357–1358, Madrid, Spain. ACM.
- [Boussaa et al.(2015)Boussaa, Barais, Sunye, and Baudry] Mohamed Boussaa, Olivier Barais, Gerson Sunye, and Benoit Baudry. 2015. A novelty search-based test data generator for object-oriented programs. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1359–1360, Madrid, Spain. ACM.
- [Bozdogan et al.(2015)Bozdogan, Gokcen, and Zincir] Can Bozdogan, Yasemin Gokcen, and Ibrahim Zincir. 2015. A preliminary investigation on the identification of peer to peer network applications. In SecDef'2015 Workshop on genetic and evolutionary computation in defense, security and risk management, pages 883–888, Madrid, Spain. ACM.
- [Bredeche et al.(2015a)Bredeche, Doncieux, and Mouret] Nicolas Bredeche, Stephane Doncieux, and Jean-Baptiste Mouret. 2015a. Tutorial on evolutionary robotics. In *GECCO 2015 Introductory Tutorials*, pages 231–261, Madrid, Spain. ACM.
- [Bredeche et al.(2015b)Bredeche, Haasdijk, and Prieto] Nicolas Bredeche, Evert Haasdijk, and Abraham Prieto. 2015b. Elements of embodied evolutionary robotics. In *GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop*, pages 1247–1247, Madrid, Spain. ACM.

- [Brizuela et al.(2015)Brizuela, Corona, Lezcano, Rodriguez, and Colbes] Carlos Brizuela, Rosario I. Corona, Christian Lezcano, David Rodriguez, and Jose D. Colbes. 2015. An experimental analysis of the performance of sidechain packing algorithms. In *GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology*, pages 929–933, Madrid, Spain. ACM.
- [Brockhoff et al.(2015)Brockhoff, Bischl, and Wagner] Dimo Brockhoff, Bernd Bischl, and Tobias Wagner. 2015. The impact of initial designs on the performance of matsumoto on the noiseless bbob-2015 testbed: A preliminary study. In *Black Box Optimization Benchmarking (BBOB 2015) Workshop*, pages 1159–1166, Madrid, Spain. ACM.
- [Brockhoff and Wagner(2015)] Dimo Brockhoff and Tobias Wagner. 2015. Tutorial on evolutionary multiobjective optimization. In *GECCO 2015 Introductory Tutorials*, pages 37–63, Madrid, Spain. ACM.
- [Brookhouse and Otero(2015)] James Brookhouse and Fernando E.B. Otero. 2015. Discovering regression rules with ant colony optimization. In GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems), pages 1005—1012, Madrid, Spain. ACM.
- [n. Browne(2015)] Will n. Browne. 2015. Back to the future: Learning classifier systems as cognitive systems. In GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems), pages 1037–1037, Madrid, Spain. ACM.
- [Brownlee et al.(2015)Brownlee, Woodward, and Swan] Alexander E.I. Brownlee, John R. Woodward, and Jerry Swan. 2015. Metaheuristic design pattern: Surrogate fitness functions. In GECCO 2015 2nd Workshop on Metaheuristic Design Patterns (MetaDeeP'15), pages 1261–1264, Madrid, Spain. ACM.
- [Bruce(2015)] Bobby R. Bruce. 2015. Energy optimisation via genetic improvement: A sbse technique for a new era in software development. In *Genetic Improvement 2015 Workshop*, pages 819–820, Madrid, Spain. ACM.
- [Burles et al.(2015)Burles, Swan, Bowles, Brownlee, Kocsis, and Veerapen] Nathan Burles, Jerry Swan, Edward Bowles, Alexander E.I. Brownlee, Zoltan A. Kocsis, and Nadarajen Veerapen. 2015. Embedded dynamic improvement. In *Genetic Improvement 2015 Workshop*, pages 831–832, Madrid, Spain. ACM.
- [Buzdalov and Parfenov(2015)] Maxim Buzdalov and Vladimir Parfenov. 2015. Various degrees of steadiness in nsga-ii and their influence on the quality of results. In *GECCO 2015 Late-Breaking Abstracts*, pages 749–750, Madrid, Spain. ACM.
- [Buzdalova et al.(2015)Buzdalova, Matveeva, and Korneev] Arina Buzdalova, Anna Matveeva, and Georgiy Korneev. 2015. Selection of auxiliary objectives with multi-objective reinforcement learning. In GECCO'15 Student Workshop, pages 1177–1180, Madrid, Spain. ACM.
- [Cabassi and Locatelli(2015)] Federico Cabassi and Marco Locatelli. 2015. A computational comparison of memetic differential evolution approaches. In *GECCO'15 Student Workshop*, pages 1181–1184, Madrid, Spain. ACM.
- [Cantoro et al.(2015)Cantoro, Gaudesi, Sanchez, and Squillero] Riccardo Cantoro, Marco Gaudesi, Ernesto Sanchez, and Giovanni Squillero. 2015. Exploiting evolutionary computation in an industrial flow for the development of code-optimized microprocessor test programs. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1465–1466, Madrid, Spain. ACM.
- [Cardenas-Montes et al.(2015)Cardenas-Montes, Vega-Rodriguez, Rodriguez-Vazquez, and Gomez-Iglesias] Miguel Cardenas-Montes, Miguel Angel Vega-Rodriguez, Juan Jose Rodriguez-Vazquez, and Antonio Gomez-Iglesias. 2015. A comparison exercise on parallel evaluation of rosenbrock function. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1361–1362, Madrid, Spain. ACM.

- [Chaabani et al.(2015)Chaabani, Bechikh, Ben Said, and Azzouz] Abir Chaabani, Slim Bechikh, Lamjed Ben Said, and Radhia Azzouz. 2015. An improved co-evolutionary decomposition-based algorithm for bi-level combinatorial optimization. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1363–1364, Madrid, Spain. ACM.
- [Chabin et al.(2015)Chabin, Tonda, and Lutton] Thomas Chabin, Alberto Tonda, and Evelyne Lutton. 2015. Is global sensitivity analysis useful to evolutionary computation? In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1365–1366, Madrid, Spain. ACM.
- [Chebbi and Chaouachi(2015)] Olfa Chebbi and Jouhaina Chaouachi. 2015. Evolutionary approach for minimizing consumed energy in a personal rapid transit transportation system with a multi-depot network topology: Minimizing consumed energy in a prt system with a multi-depot network topology. In GECCO 2015 Late-Breaking Abstracts, pages 751–752, Madrid, Spain. ACM.
- [Chen et al.(2015a)Chen, Lee, and Hsiao] Liang-Yu Chen, Po-Ming Lee, and Tzu-Chien Hsiao. 2015a. Dynamically adding sensors to the xcs in multistep problems: A sensor tagging approach. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1367–1368, Madrid, Spain. ACM.
- [Chen et al.(2015b)Chen, Lee, and Hsiao] Liang-Yu Chen, Po-Ming Lee, and Tzu-Chien Hsiao. 2015b. A novel representation of classifier conditions named sensory tag for the xcs in multistep problems. In GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems), pages 973–980, Madrid, Spain. ACM.
- [Chennupati et al.(2015a)Chennupati, Azad, and Ryan] Gopinath Chennupati, R. Muhammad Atif Azad, and Conor Ryan. 2015a. On the automatic generation of efficient parallel iterative sorting algorithms. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1369–1370, Madrid, Spain. ACM.
- [Chennupati et al.(2015b)Chennupati, Azad, and Ryan] Gopinath Chennupati, R. Muhammd Atif Azad, and Conor Ryan. 2015b. Synthesis of parallel iterative sorts with multi-core grammatical evolution. In GECCO 2015 5th Workshop on Evolutionary Computation for the Automated Design of Algorithms (ECADA'15), pages 1059–1066, Madrid, Spain. ACM.
- [Chivilikhin et al.(2015)Chivilikhin, Ivanov, and Shalyto] Daniil Chivilikhin, Ilya Ivanov, and Anatoly Shalyto. 2015. Inferring temporal properties of finite-state machine models with genetic programming. In *GECCO'15 Student Workshop*, pages 1185–1188, Madrid, Spain. ACM.
- [Christmas(2015)] Jacqueline Christmas. 2015. Genetic c programming with probabilistic evaluation. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1371–1372, Madrid, Spain. ACM.
- [Cody-Kenny et al.(2015)Cody-Kenny, Galvan-Lopez, and Barrett] Brendan Cody-Kenny, Edgar Galvan-Lopez, and Stephen Barrett. 2015. locogp: Improving performance by genetic programming java source code. In *Genetic Improvement 2015 Workshop*, pages 811–818, Madrid, Spain. ACM.
- [Coello Coello (2015)] Carlos Artemio Coello Coello. 2015. Constraint-handling techniques used with evolutionary algorithms. In *GECCO 2015 Advanced Tutorials*, pages 367–389, Madrid, Spain. ACM.
- [Cruz et al.(2015)Cruz, Machado, Assuncao, and Leitao] Antonio Cruz, Penousal Machado, Filipe Assuncao, and Antonio Leitao. 2015. Elicit: Evolutionary computation visualization. In 6th Workshop on Visualisation Methods in Genetic and Evolutionary Computation (VizGEC 2015), pages 949–956, Madrid, Spain. ACM.
- [Cussat-Blanc and Banzhaf(2015)] Sylvain Cussat-Blanc and Wolfgang Banzhaf. 2015. Introduction to gene regulatory networks. In *GECCO 2015 Advanced Tutorials*, pages 589–601, Madrid, Spain. ACM.

- [Cutillas-Lozano et al.(2015)Cutillas-Lozano, Franco, and Gimenez] Jose-Matias Cutillas-Lozano, Miguel-Angel Franco, and Domingo Gimenez. 2015. Comparing variable width backtracking and metaheuristics, experiments with the maximum diversity problem. In GECCO 2015 Late-Breaking Abstracts, pages 753–754, Madrid, Spain. ACM.
- [Davila(2015)] Jaime J. Davila. 2015. An empirical comparison of genetically evolved programs and evolved neural networks for multi-agent systems operating under dynamic environments. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1373–1374, Madrid, Spain. ACM.
- [de Bokx et al.(2015)de Bokx, Thierens, and Bosman] Roy de Bokx, Dirk Thierens, and Peter A.N. Bosman. 2015. In search of optimal linkage trees. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1375–1376, Madrid, Spain. ACM.
- [De Jong(2015)] Kenneth A. De Jong. 2015. Evolutionary computation: A unified approach. In GECCO 2015 Introductory Tutorials, pages 21–35, Madrid, Spain. ACM.
- [de las Cuevas Delgado et al. (2015) de las Cuevas Delgado, Merelo, and Garcia Sanchez] Paloma de las Cuevas Delgado, Juan Julian Merelo, and Pablo Garcia Sanchez. 2015. Soft computing techniques applied to corporate and personal security. In *GECCO'15 Student Workshop*, pages 1193–1196, Madrid, Spain. ACM.
- [Decock et al.(2015)Decock, Liu, and Tetaud] Jeremie Decock, Jialin Liu, and Olivier Tetaud. 2015. Variance reduction in population-based optimization: Application to unit commitment. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1377–1378, Madrid, Spain. ACM.
- [Decroos et al.(2015)Decroos, De Causmaecker, and Demoen] Tom Decroos, Patrick De Causmaecker, and Bart Demoen. 2015. Solving euclidean steiner tree problems with multi swarm optimization. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1379–1380, Madrid, Spain. ACM.
- [Degroote and De Causmaecker(2015)] Hans Degroote and Patrick De Causmaecker. 2015. Towards a knowledge base for performance data: A formal model for performance comparison. In GECCO'15 Student Workshop, pages 1189–1192, Madrid, Spain. ACM.
- [DeVautl et al.(2015)DeVautl, Forrest, Tanimoto, Soule, and Heckendorn] Travis DeVautl, Seth Forrest, Ian Tanimoto, Terence Soule, and Robert Heckendorn. 2015. Learning from demonstration for distributed, encapsulated evolution of autonomous outdoor robots. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1381–1382, Madrid, Spain. ACM.
- [Diaz Alvarez et al.(2015)Diaz Alvarez, Colmenar, Risco-Martin, Lanchares, and Garnica] Josefa Diaz Alvarez, J. Manuel Colmenar, Jose L. Risco-Martin, Juan Lanchares, and Oscar Garnica. 2015. Optimizing performance of 11 cache memory for embedded systems driven by differential evolution. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1383–1384, Madrid, Spain. ACM.
- [Dorfer et al.(2015)Dorfer, Maltsev, Dreiseitl, Mechtler, and Winkler] Viktoria Dorfer, Sergey Maltsev, Stephan Dreiseitl, Karl Mechtler, and Stephan M. Winkler. 2015. A symbolic regression based scoring system improving peptide identifications for ms amanda. In GECCO 2015 Medical Applications of Genetic and Evolutionary Computation (MedGEC'15) Workshop, pages 1335–1341, Madrid, Spain. ACM.
- [Drugan(2015)] Madalina M. Drugan. 2015. Synergies between evolutionary algorithms and reinforcement learning. In *GECCO 2015 Specialized Tutorials*, pages 723–740, Madrid, Spain. ACM.

- [Du et al.(2015)Du, Ni, and Ye] Xin Du, Youcong Ni, and Peng Ye. 2015. A multi-objective evolutionary algorithm for rule-based performance optimization at software architecture level. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1385–1386, Madrid, Spain. ACM.
- [Engelbrecht(2015)] Andries Engelbrecht. 2015. Particle swarm optimization. In GECCO 2015 Introductory Tutorials, pages 65–91, Madrid, Spain. ACM.
- [Fatnassi and Chaouachi(2015)] Ezzeddine Fatnassi and Jouhaina Chaouachi. 2015. Design and development of a genetic algorithm for the distance constrained vehicle routing problem with environmental issues: Genetic algorithm for the green distance constrained vehicle routing problem. In GECCO 2015 Late-Breaking Abstracts, pages 755–756, Madrid, Spain. ACM.
- [Fernandez et al.(2015)Fernandez, Alvarez, Malatsetxebarria, Valledor, and Diaz] Silvino Fernandez, Segundo Alvarez, Eneko Malatsetxebarria, Pablo Valledor, and Diego Diaz. 2015. Performance comparison of ant colony algorithms for the scheduling of steel production lines. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1387–1388, Madrid, Spain. ACM.
- [Ffrancon and Schoenauer (2015)] Robyn Ffrancon and Marc Schoenauer. 2015. Greedy semantic local search for small solutions. In *GECCO 2015 Semantic Methods in Genetic Programming (SMGP'15) Workshop*, pages 1293–1300, Madrid, Spain. ACM.
- [Filipiak et al.(2015)Filipiak, Michalak, and Lipinski] Patryk Filipiak, Krzysztof Michalak, and Piotr Lipinski. 2015. Infeasibility driven evolutionary algorithm with the anticipation mechanism for the reaching goal in dynamic constrained inverse kinematics. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1389–1390, Madrid, Spain. ACM.
- [Forstenlechner et al.(2015)Forstenlechner, Nicolau, Fagan, and O'Neill] Stefan Forstenlechner, Miguel Nicolau, David Fagan, and Michael O'Neill. 2015. Introducing semantic-clustering selection in grammatical evolution. In GECCO 2015 Semantic Methods in Genetic Programming (SMGP'15) Workshop, pages 1277–1284, Madrid, Spain. ACM.
- [Freitas et al.(2015)Freitas, Garrozi, and Valenca] Jamisson Santana Freitas, Cicero Garrozi, and Meuser Valenca. 2015. Insertion of artificial individuals to increase the diversity of multiobjective evolutionary algorithms. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1391–1392, Madrid, Spain. ACM.
- [Gabler et al.(2015)Gabler, Colby, and Tumer] Andrew Gabler, Mitchell Colby, and Kagan Tumer. 2015. Learning based control of a fuel cell turbine hybrid power system. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1393–1394, Madrid, Spain. ACM.
- [Gaier(2015)] Adam Gaier. 2015. Evolutionary design via indirect encoding of non-uniform rational basis splines. In *GECCO'15 Student Workshop*, pages 1197–1200, Madrid, Spain. ACM.
- [Gao et al.(2015)Gao, Pourhassan, and Neumann] Wanru Gao, Mojgan Pourhassan, and Frank Neumann. 2015. Runtime analysis of evolutionary diversity optimization and the vertex cover problem. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1395–1396, Madrid, Spain. ACM.
- [Garza-Fabre et al.(2015)Garza-Fabre, Kandathil, Handl, Knowles, and Lovell] Mario Garza-Fabre, Shaun M. Kandathil, Julia Handl, Joshua D. Knowles, and Simon C. Lovell. 2015. Using machine learning to explore the relevance of local and global features during conformational search in rosetta. In GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology, pages 935–938, Madrid, Spain. ACM.

- [Garzon-Rodriguez et al.(2015)Garzon-Rodriguez, Diosa, and Rojas-Galeano] Leidy Patricia Garzon-Rodriguez, Henry Alberto Diosa, and Sergios Rojas-Galeano. 2015. Deconstructing gas into visual software components. In GECCO 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft'15), pages 1125–1132, Madrid, Spain. ACM.
- [Gaudesi et al.(2015)Gaudesi, Marcelli, Sanchez, Squillero, and Tonda] Marco Gaudesi, Andrea Marcelli, Ernesto Sanchez, Giovanni Squillero, and Alberto Tonda. 2015. Malware obfuscation through evolutionary packers. In *GECCO 2015 Late-Breaking Abstracts*, pages 757–758, Madrid, Spain. ACM.
- [Ghassemi Toosi et al.(2015)Ghassemi Toosi, Nikolov, and Eaton] Farshad Ghassemi Toosi, Nikola S. Nikolov, and Malachy Eaton. 2015. Evolving smart initial layouts for force-directed graph drawing. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1397–1398, Madrid, Spain. ACM.
- [Golemo et al.(2015)Golemo, Markovic, Schoormans, De Jonge, Couwenberg, and Haasdijk] Florian Golemo, Marjeta Markovic, Jasper Schoormans, Peter De Jonge, Maik Couwenberg, and Evert Haasdijk. 2015. Simulating morphological evolution in large robot populations. In *GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop*, pages 1249–1250, Madrid, Spain. ACM.
- [Gomes et al.(2015)Gomes, Mariano, and Christensen] Jorge Gomes, Pedro Mariano, and Anders Lyhne Christensen. 2015. Hyb-ccea: Cooperative coevolution of hybrid teams. In GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop, pages 1251–1252, Madrid, Spain. ACM.
- [Gorji Sefidmazgi et al.(2015)Gorji Sefidmazgi, Moradi Kordmahalleh, and Homaifar] Mohammad Gorji Sefidmazgi, Mina Moradi Kordmahalleh, and Abdollah Homaifar. 2015. Identification of switched models in non-stationary time series based on coordinate-descent and genetic algorithm. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1399–1400, Madrid, Spain. ACM.
- [Graham et al.(2015)Graham, Swan, and Martin] Kevin Graham, Jerry Swan, and Simon Martin. 2015. The 'blackboard pattern' for metaheuristics. In GECCO 2015 2nd Workshop on Metaheuristic Design Patterns (MetaDeeP'15), pages 1265–1267, Madrid, Spain. ACM.
- [Haddadi and Zincir-Heywood(2015)] Fariba Haddadi and A. Nur Zincir-Heywood. 2015. Botnet detection system analysis on the effect of botnet evolution and feature representation. In SecDef'2015 Workshop on genetic and evolutionary computation in defense, security and risk management, pages 893–900, Madrid, Spain. ACM.
- [Hamann(2015)] Heiko Hamann. 2015. Evolution of collective behaviors by minimizing surprisal and by micro-macro links. In GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop, pages 1253–1253, Madrid, Spain. ACM.
- [Haraldsson and Woodward(2015)] Saemundur O. Haraldsson and John R. Woodward. 2015. Genetic improvement of energy usage is only as reliable as the measurements are accurate. In *Genetic Improvement 2015 Workshop*, pages 821–822, Madrid, Spain. ACM.
- [Harman and Petke(2015)] Mark Harman and Justyna Petke. 2015. Gi4gi: Improving genetic improvement fitness functions. In *Genetic Improvement 2015 Workshop*, pages 793–794, Madrid, Spain. ACM.
- [Harris et al.(2015)Harris, Bueter, and Tauritz] Sean Harris, Travis Bueter, and Daniel R. Tauritz. 2015. A comparison of genetic programming variants for hyper-heuristics. In GECCO 2015 5th Workshop on Evolutionary Computation for the Automated Design of Algorithms (ECADA'15), pages 1043–1050, Madrid, Spain. ACM.
- [Hasegawa et al.(2015)Hasegawa, Tsukada, Mori, and Matsumoto] Taku Hasegawa, Kento Tsukada, Naoki Mori, and Keinosuke Matsumoto. 2015. Adaptive evolution control with p-i similarity index for surrogate-assisted evolutionary computation. In *GECCO 2015 Late-Breaking Abstracts*, pages 759–760, Madrid, Spain. ACM.

- [Heinerman(2015)] Jacqueline Heinerman. 2015. Collective sharing of knowledge in a dream. In GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop, pages 1243–1244, Madrid, Spain. ACM.
- [Heywood and Krawiec(2015)] Malcolm I. Heywood and Krzysztof Krawiec. 2015. Solving complex problems with coevolutionary algorithms. In *GECCO 2015 Advanced Tutorials*, pages 547–573, Madrid, Spain. ACM.
- [Hruska and Kubalik(2015)] Frantisek Hruska and Jiri Kubalik. 2015. Selection hyper-heuristic using a portfolio of derivative heuristics. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1401–1402, Madrid, Spain. ACM.
- [Inostroza-Ponta et al.(2015)Inostroza-Ponta, Farfan, and Dorn] Mario Inostroza-Ponta, Camilo Farfan, and Marcio Dorn. 2015. A memetic algorithm for protein structure prediction based on conformational preferences of aminoacid residues. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1403–1404, Madrid, Spain. ACM.
- [Izidoro et al.(2015)Izidoro, Lacerda, and Pappa] Sandro Izidoro, Anisio M. Lacerda, and Gisele L. Pappa. 2015. Megass: Multi-objective genetic active site search. In GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology, pages 905–910, Madrid, Spain. ACM.
- [Jankee et al.(2015) Jankee, Verel, Derbel, and Flonlupt] Christopher Jankee, Sebastien Verel, Bilel Derbel, and Cyril Flonlupt. 2015. New adaptive selection strategies for distributed adaptive metaheuristic selection. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1405–1406, Madrid, Spain. ACM.
- [Jia et al.(2015a)Jia, He, Zhu, Liu, and Tang] Guanbo Jia, Shan He, Zexuan Zhu, Jing Liu, and Ke Tang. 2015a. A multimodal optimization and surprise based consensus community detection algorithm. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1407–1408, Madrid, Spain. ACM.
- [Jia et al.(2015b)Jia, Wu, Harman, and Krinke] Yue Jia, Fan Wu, Mark Harman, and Jens Krinke. 2015b. Genetic improvement using higher order mutation. In *Genetic Improvement 2015 Workshop*, pages 803–804, Madrid, Spain. ACM.
- [Jimenez Laredo et al.(2015)Jimenez Laredo, Guinand, Olivier, and Bouvry] Juan Luis Jimenez Laredo, Frederic Guinand, Damien Olivier, and Pascal Bouvry. 2015. Trading off resource utilization and task migrations in dynamic load-balancing. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1409–1410, Madrid, Spain. ACM.
- [Johnson and Woodward (2015)] Colin G. Johnson and John R. Woodward. 2015. Fitness as task-relevant information accumulation. In *Genetic Improvement 2015 Workshop*, pages 855–856, Madrid, Spain. ACM.
- [Jung et al.(2015)Jung, Kim, Yoon, and Moon] Chanju Jung, Yong-Hyuk Kim, Yourim Yoon, and Byung-Ro Moon. 2015. An adeaptive method of hungarian mating schemes in genetic algorithms. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1413–1414, Madrid, Spain. ACM.
- [Jungjit and Freitas(2015)] Suwimol Jungjit and Alex Freitas. 2015. A lexicographic multi-objective genetic algorithm for multi-label correlation based feature selection. In GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems), pages 989–996, Madrid, Spain. ACM.

- [Karimpour and Ruhe(2015)] Reza Karimpour and Guenther Ruhe. 2015. A search based approach towards robust optimization in software product line scoping. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1415–1416, Madrid, Spain. ACM.
- [Keedwell et al.(2015)Keedwell, Johns, and Savic] Edward Keedwell, Matthew Johns, and Dragan Savic. 2015. Spatial and temporal visualisation of evolutionary algorithm decisions in water distribution network optimisation. In 6th Workshop on Visualisation Methods in Genetic and Evolutionary Computation (VizGEC 2015), pages 941–948, Madrid, Spain. ACM.
- [Krynicki and Jaen(2015)] Kamil Krynicki and Javier Jaen. 2015. Antelements: An extensible and scalable ant colony optimization middleware. In *GECCO 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft'15)*, pages 1109–1116, Madrid, Spain. ACM.
- [Kumar et al.(2015)Kumar, Jayadeva, and Soman] Udit Kumar, Jayadeva, and Sumit Soman. 2015. Enhancing incremental ant colony algorithm for continuous global optimization. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1417–1418, Madrid, Spain. ACM.
- [Landsborough et al.(2015)Landsborough, Harding, and Fugate] Jason Landsborough, Stephen Harding, and Sunny Fugate. 2015. Removing the kitchen sink from software. In Genetic Improvement 2015 Workshop, pages 833–838, Madrid, Spain. ACM.
- [Langdon and Harman(2015)] William B. Langdon and Mark Harman. 2015. Grow and graft a better cuda pknotsrg for rna pseudoknot free energy calculation. In *Genetic Improvement 2015 Workshop*, pages 805–810, Madrid, Spain. ACM.
- [Lehre and Oliveto(2015)] Per Kristian Lehre and Pietro S. Oliveto. 2015. Runtime analysis of evolutionary algorithms: Basic introduction. In *GECCO 2015 Introductory Tutorials*, pages 121–136, Madrid, Spain. ACM.
- [Lessin and Risi(2015)] Dan Lessin and Sebastian Risi. 2015. Evolved virtual creatures with soft-body muscles: On a bio-mimetic path to meaningful morphological complexity. In *GECCO 2015 Late-Breaking Abstracts*, pages 761–762, Madrid, Spain. ACM.
- [Li et al.(2015)Li, Chen, Zhan, Du, and Zhang] Hai-Hao Li, Zong-Gan Chen, Zhi-Hui Zhan, Ke-Jing Du, and Jun Zhang. 2015. Renumber coevolutionary multiswarm particle swarm optimization for multi-objective workflow scheduling on cloud computing environment. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1419–1420, Madrid, Spain. ACM.
- [Liang et al.(2015)Liang, Han, Zhaoquan, and Hui] Lv Liang, Huang Han, Cai Zhaoquan, and Hu Hui. 2015. Using particle swarm large-scale optimization to improve sampling-based image matting. In 6th Workshop on Visualisation Methods in Genetic and Evolutionary Computation (VizGEC 2015), pages 957–961, Madrid, Spain. ACM.
- [Liskowski et al.(2015)Liskowski, Krawiec, Helmuth, and Spector] Pawel Liskowski, Krzysztof Krawiec, Thomas Helmuth, and Lee Spector. 2015. Comparison of semantic-aware selection methods in genetic programming. In GECCO 2015 Semantic Methods in Genetic Programming (SMGP'15) Workshop, pages 1301–1307, Madrid, Spain. ACM.
- [Lobato et al.(2015)Lobato, Tadaiesky, Araujo, and de Santana] Fabio M.F. Lobato, Vincent W. Tadaiesky, Igor M. Araujo, and Adamo L. de Santana. 2015. An evolutionary missing data imputation method for pattern classification. In GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems), pages 1013–1019, Madrid, Spain. ACM.
- [Lobo and Bazargani(2015)] Fernando G. Lobo and Mosab Bazargani. 2015. When hillclimbers beat genetic algorithms in multimodal optimization. In *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1421–1422, Madrid, Spain. ACM.

- [Lopez-Garcia et al.(2015)Lopez-Garcia, Onieva, Osaba, Masegosa, and Perallos] Pedro Lopez-Garcia, Enrique Onieva, Eneko Osaba, Antonio D. Masegosa, and Asier Perallos. 2015. Hybridizing genetic algorithm with cross entropy for solving continuous functions. In *GECCO 2015 Late-Breaking Abstracts*, pages 763–764, Madrid, Spain. ACM.
- [Lopez-Herrejon et al.(2015)Lopez-Herrejon, Linsbauer, Assuncao, Fischer, Vergilio, and Egyed] Roberto E. Lopez-Herrejon, Lukas Linsbauer, Wesley K.G. Assuncao, Stefan Fischer, Silvia R. Vergilio, and Alexander Egyed. 2015. Genetic improvement for software product lines: An overview and a roadmap. In Genetic Improvement 2015 Workshop, pages 823–830, Madrid, Spain. ACM.
- [Machado et al.(2015)Machado, Neves, and Horta] Jaime Machado, Rui Neves, and Nuno Horta. 2015. Developing multi-time frame trading rules with a trend following strategy, using ga. In *GECCO 2015 Late-Breaking Abstracts*, pages 765–766, Madrid, Spain. ACM.
- [Madera et al.(2015)Madera, Garcia-Valdez, Castillo, and Mancilla] Quetzali Madera, Mario Garcia-Valdez, Oscar Castillo, and Alejandra Mancilla. 2015. A method based on interactive evolutionary computation for increasing the effectiveness of advertisement texts. In *GECCO'15 Student Workshop*, pages 1225–1228, Madrid, Spain. ACM.
- [Margarida and Antunes(2015)] Dolores Margarida and Carlos Henggeler Antunes. 2015. Multiobjective optimization of sensor placement to detect contamination in water distribution networks. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1423–1424, Madrid, Spain. ACM.
- [Mariot and Leporati(2015)] Luca Mariot and Alberto Leporati. 2015. Heuristic search by particle swarm optimization of boolean functions for cryptographic applications. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1425–1426, Madrid, Spain. ACM.
- [Marti et al.(2015)Marti, Grimme, Kerschke, Trautmann, and Rudolph] Luis Marti, Christian Grimme, Paskal Kerschke, Heike Trautmann, and Guenter Rudolph. 2015. Averaged hausdorff approximations of pareto fronts based on multiobjective estimation of distribution algorithms. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1427–1428, Madrid, Spain. ACM.
- [Martin et al.(2015)Martin, Bertels, and Tauritz] Matthew A. Martin, Alex R. Bertels, and Daniel R. Tauritz. 2015. Asynchronous parallel evolutionary algorithms: Leveraging heterogeneous fitness evaluation times for scalability and elitist parsimony pressure. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1429–1430, Madrid, Spain. ACM.
- [Martin and Tauritz(2015)] Matthew A. Martin and Daniel R. Tauritz. 2015. Hyper-heuristics: A study on increasing primitive-space. In GECCO 2015 5th Workshop on Evolutionary Computation for the Automated Design of Algorithms (ECADA'15), pages 1051–1058, Madrid, Spain. ACM.
- [Martinez et al.(2015)Martinez, Rossi, Ziadi, Bissyande, Klein, and Le Traon] Jabier Martinez, Gabriele Rossi, Tewfik Ziadi, Tegawende Francois D. Assise Bissyande, Jacques Klein, and Yves Le Traon. 2015. Estimating and predicting average likability on computer-generated artwork variants. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1431–1432, Madrid, Spain. ACM.
- [Martins and Delbem(2015)] Jean P. Martins and Alexandre C.B. Delbem. 2015. Handling crossover bias to improve diversity in multiobjective evolutionary optimization. In *GECCO Companion '15:* Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1433–1434, Madrid, Spain. ACM.
- [McCall et al.(2015)McCall, Christie, and Brownlee] John A.W. McCall, Lee A. Christie, and Alexander E.I. Brownlee. 2015. Generating easy and hard problems using the proximate optimality principle. In *GECCO 2015 Late-Breaking Abstracts*, pages 767–768, Madrid, Spain. ACM.

- [Medernach et al.(2015a)Medernach, Fitzgerald, Azad, and Ryan] David Medernach, Jeannie Fitzgerald, R. Muhammad Atif Azad, and Conor Ryan. 2015a. Wave: A genetic programming approach to divide and conquer. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1435–1436, Madrid, Spain. ACM.
- [Medernach et al.(2015b)Medernach, Fitzgerald, Azad, and Ryan] David Medernach, Jeannie Fitzgerald, R. Muhammad Atif Azad, and Conor Ryan. 2015b. Wave: Incremental erosion of residual error. In GECCO 2015 Semantic Methods in Genetic Programming (SMGP'15) Workshop, pages 1285–1292, Madrid, Spain. ACM.
- [Menendez and Camacho(2015)] Hector David Menendez and David Camacho. 2015. Mogcla: A multiobjective genetic clustering algorithm for large data analysis. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1437–1438, Madrid, Spain. ACM.
- [Merelo-Guervos (2015)] Juan J. Merelo-Guervos. 2015. Low or no cost distributed evolutionary computation. In *GECCO 2015 Specialized Tutorials*, pages 703–706, Madrid, Spain. ACM.
- [Merelo-Guervos and Garcia-Sanchez (2015)] Juan J. Merelo-Guervos and Pablo Garcia-Sanchez. 2015. Designing and modeling a browser-based distributed evolutionary computation system. In GECCO 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft'15), pages 1117–1124, Madrid, Spain. ACM.
- [Miikkulainen(2015)] Risto Miikkulainen. 2015. Evolving neural networks. In GECCO 2015 Introductory Tutorials, pages 137–161, Madrid, Spain. ACM.
- [Miller and Broersma(2015)] Julian Miller and Hajo Broersma. 2015. Computational matter: Evolving computational solutions in materials. In *GECCO 2015 Late-Breaking Abstracts*, pages 769–770, Madrid, Spain. ACM.
- [Miller and Turner(2015)] Julian Miller and Andrew Turner. 2015. Cartesian genetic programming. In GECCO 2015 Introductory Tutorials, pages 179–198, Madrid, Spain. ACM.
- [Mirjalili and Lewis (2015)] Seyedali Mirjalili and Andrew Lewis. 2015. A reliable and computationally cheap approach for finding robust optimal solutions. In *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1439–1440, Madrid, Spain. ACM.
- [Mironovich and Buzdalov(2015)] Vladimir Mironovich and Maxim Buzdalov. 2015. Hard test generation for maximum flow algorithms with the fast crossover-based evolutionary algorithm. In GECCO'15 Student Workshop, pages 1229–1232, Madrid, Spain. ACM.
- [Miyakawa et al.(2015)Miyakawa, Takadama, and Sato] Minami Miyakawa, Keiki Takadama, and Hiroyuki Sato. 2015. Control of crossed genes ratio for directed mating in evolutionary constrained multi-objective optimization. In *GECCO'15 Student Workshop*, pages 1201–1204, Madrid, Spain. ACM.
- [Moraglio and Krawiec (2015)] Alberto Moraglio and Krzysztof Krawiec. 2015. Semantic genetic programming. In GECCO 2015 Advanced Tutorials, pages 603–627, Madrid, Spain. ACM.
- [Mousavi Astarabadi and Ebadzadeh (2015)] Samaneh Sadat Mousavi Astarabadi and Mohammad Mehdi Ebadzadeh. 2015. Avoiding overfitting in symbolic regression using the first order derivative of gp trees. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1441–1442, Madrid, Spain. ACM.
- [Mrazek et al.(2015)Mrazek, Vasicek, and Sekanina] Vojtech Mrazek, Zdenek Vasicek, and Lukas Sekanina. 2015. Evolutionary approximation of software for embedded systems: Median function. In *Genetic Improvement 2015 Workshop*, pages 795–801, Madrid, Spain. ACM.

- [Mu and Hoos(2015)] Zongxu Mu and Holger H. Hoos. 2015. Empirical scaling analyser: An automated system for empirical analysis of performance scaling. In *GECCO 2015 Late-Breaking Abstracts*, pages 771–772, Madrid, Spain. ACM.
- [Mueller-Bady et al.(2015)Mueller-Bady, Gad, Kappes, and Medina-Bulo] Robin Mueller-Bady, Ruediger Gad, Martin Kappes, and Inmaculada Medina-Bulo. 2015. Using genetic algorithms for deadline-constrained monitor selection in dynamic computer networks. In SecDef'2015 Workshop on genetic and evolutionary computation in defense, security and risk management, pages 867–874, Madrid, Spain. ACM.
- [Najar et al.(2015)Najar, Sigaud, and Chetouani] Anis Najar, Olivier Sigaud, and Mohamed Chetouani. 2015. Socially guided xcs: Using teaching signals to boost learning. In GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems), pages 1021–1028, Madrid, Spain. ACM.
- [Nebro et al. (2015) Nebro, Durillo, and Vergne] Antonio J. Nebro, Juan J. Durillo, and Matthieu Vergne. 2015. Redesigning the jmetal multi-objective optimization framework. In *GECCO* 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft'15), pages 1093–1100, Madrid, Spain. ACM.
- [Neumann and Sutton(2015)] Frank Neumann and Andrew M. Sutton. 2015. Parameterized complexity analysis of evolutionary algorithms. In *GECCO 2015 Advanced Tutorials*, pages 435–450, Madrid, Spain. ACM.
- [Nielsen et al.(2015)Nielsen, Danoy, Bouvry, and Talbi] Sune S. Nielsen, Gregoire Danoy, Pascal Bouvry, and El-Ghazali Talbi. 2015. Nk landscape instances mimicking the protein inverse folding problem towards future benchmarks. In GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology, pages 915–921, Madrid, Spain. ACM.
- [Nouri et al.(2015)Nouri, Belkahla Driss, and Ghedira] Houssem Eddine Nouri, Olfa Belkahla Driss, and Khaled Ghedira. 2015. Metaheuristics based on clustering in a holonic multiagent model for the flexible job shop problem. In GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems), pages 997–1004, Madrid, Spain. ACM.
- [Oprescu et al.(2015)Oprescu, (Vintila) Filip, and Kielmann] Ana-Maria Oprescu, Alexandra (Vintila) Filip, and Thilo Kielmann. 2015. Fast pareto front approximation for cloud instance pool optimization. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1443–1444, Madrid, Spain. ACM.
- [O'Reilly(2015)] Una-May O'Reilly. 2015. Genetic programming: A tutorial introduction. In *GECCO* 2015 Introductory Tutorials, pages 3–19, Madrid, Spain. ACM.
- [Overbury and Berthouze(2015)] Peter Overbury and Luc Berthouze. 2015. Using novelty-biased ga to sample diversity in graphs satisfying constraints. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1445–1446, Madrid, Spain. ACM.
- [Ozkan et al.(2015)Ozkan, Ermis, and Bekmezci] Omer Ozkan, Murat Ermis, and Ilker Bekmezci. 2015. A hybrid matheuristic approach for designing reliable wireless multimedia sensor networks. In SecDef'2015 Workshop on genetic and evolutionary computation in defense, security and risk management, pages 875–882, Madrid, Spain. ACM.
- [Pallez et al.(2015)Pallez, Serrurier, da Costa Pereira, Fusco, and Cao] Denis Pallez, Mathieu Serrurier, Celia da Costa Pereira, Giovanni Fusco, and Cristina Cao. 2015. Social specialization of space: Clustering households on the french riviera. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1447–1448, Madrid, Spain. ACM.

- [Papa et al.(2015)Papa, Rosa, Costa, Marana, Scheirer, and Cox] Joao Papa Papa, Gustavo Henrique Rosa, Kelton A. Costa, Nilceu A. Marana, Walter Scheirer, and David Daniel Cox. 2015. On the model selection of bernoulli restricted boltzmann machines through harmony search. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1449–1450, Madrid, Spain. ACM.
- [Pappa et al.(2015)Pappa, Simoes, Sudholt, Langdon, White, Petke, Moore, Zincir-Heywood, Santos, Handl, Shehu, Wall Gisele Pappa, Anabela Simoes, Dirk Sudholt, W. B. Langdon, David R. White, Justyna Petke, Frank W. Moore, Nur Zincir-Heywood, Jose Santos, Julia Handl, Amarda Shehu, David Walker, Richard Everson, Jonathan Fieldsend, Karthik Kuber, Masaya Nakata, Kamran Shafi, John Woodward, Daniel Tauritz, Manuel Lopez-Ibanez, Stefan Wagner, Michael Affenzeller, Youhei Akimoto, Anne Auger, Dimo Brockhoff, Nikolaus Hansen, Olaf Mersmann, Petr Posik, Tea Tusar, Boris Naujoks, Abraham Prieto, Nicolas Bredeche, Evert Haasdijk, Chris Simons, Jerry Swan, Krzysztof Krawiec, Jim Smith, Colin Johnson, Alberto Moraglio, Michael O'Neill, Stephen L. Smith, Stefano Cagnoni, and Robert M. Patton, editors. 2015. GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference. Madrid, Spain.
- [Park et al.(2015)Park, Nguyen, Zhang, and Johnston] John Park, Su Nguyen, Mengjie Zhang, and Mark Johnston. 2015. A single population genetic programming based ensemble learning approach to job shop scheduling. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1451–1452, Madrid, Spain. ACM.
- [Patelli et al.(2015)Patelli, Bencomo, Ekart, Goldingay, and Lewis] Alina Patelli, Nelly Bencomo, Aniko Ekart, Harry Goldingay, and Peter Lewis. 2015. Two-b or not two-b?: Design patterns for hybrid metaheuristics. In GECCO 2015 2nd Workshop on Metaheuristic Design Patterns (MetaDeeP'15), pages 1269–1274, Madrid, Spain. ACM.
- [Pereira and Lobo(2015)] Jose C. Pereira and Fernando G. Lobo. 2015. Parameter-less evolutionary portfolio: First experiments. In *GECCO 2015 Late-Breaking Abstracts*, pages 773–774, Madrid, Spain. ACM.
- [Perry and Bader-El-Den(2015)] Todd Perry and Mohamed Bader-El-Den. 2015. Imbalanced classification using genetically optimized random forests. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1453–1454, Madrid, Spain. ACM.
- [Petrova and Buzdalova(2015)] Irina Petrova and Arina Buzdalova. 2015. Selection of auxiliary objectives in the travelling salesman problem using reinforcement learning. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1455–1456, Madrid, Spain. ACM.
- [Picek et al.(2015)Picek, Miller, Jakobovic, and Batina] Stjepan Picek, Julian F. Miller, Domagoj Jakobovic, and Lejla Batina. 2015. Cartesian genetic programming approach for generating substitution boxes of different sizes. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1457–1458, Madrid, Spain. ACM.
- [Posik and Baudis(2015)] Petr Posik and Petr Baudis. 2015. Dimension selection in axis-parallel brent-step method for black-box optimization of separable continuous functions. In *Black Box Optimization Benchmarking (BBOB 2015) Workshop*, pages 1151–1158, Madrid, Spain. ACM.
- [Preuss(2015)] Mike Preuss. 2015. Multimodal optimization. In *GECCO 2015 Introductory Tutorials*, pages 293–312, Madrid, Spain. ACM.
- [Probst(2015)] Malte Probst. 2015. Denoising autoencoders for fast combinatorial black box optimization. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1459–1460, Madrid, Spain. ACM.

- [Rabanal et al.(2015)Rabanal, Rodriguez, and Rubio] Pablo Rabanal, Ismael Rodriguez, and Fernando Rubio. 2015. On the uselessness of finite benchmarks to assess evolutionary and swarm methods. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1461–1462, Madrid, Spain. ACM.
- [Ramirez et al.(2015)Ramirez, Romero, and Ventura] Aurora Ramirez, Jose Raul Romero, and Sebastian Ventura. 2015. An extensible jclec-based solution for the implementation of multi-objective evolutionary algorithms. In *GECCO 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft'15)*, pages 1085–1092, Madrid, Spain. ACM.
- [Ramirez-Atencia et al.(2015)Ramirez-Atencia, Bello-Orgaz, R-Moreno, and Camacho] Cristian Ramirez-Atencia, Gema Bello-Orgaz, Maria D. R-Moreno, and David Camacho. 2015. A hybrid moga-csp for multi-uav mission planning. In *GECCO'15 Student Workshop*, pages 1205–1208, Madrid, Spain. ACM.
- [Raßet al.(2015)Raß, Schmitt, and Wanka] Alexander Raß, Manuel Schmitt, and Rolf Wanka. 2015. Explanation of stagnation at points that are not local optima in particle swarm optimization by potential analysis. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1463–1464, Madrid, Spain. ACM.
- [Riff and Montero(2015)] Maria-Cristina Riff and Elizabeth Montero. 2015. A collaborative strategy to reduce initial setup requirements of paramils using evoca. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1467–1468, Madrid, Spain. ACM.
- [Rivero et al.(2015)Rivero, Fernandez-Blanco, Dorado, and Pazos] Daniel Rivero, Enrique Fernandez-Blanco, Julian Dorado, and Alejandro Pazos. 2015. Classification of two-channel signals by means of genetic programming. In GECCO 2015 Medical Applications of Genetic and Evolutionary Computation (MedGEC'15) Workshop, pages 1319–1325, Madrid, Spain. ACM.
- [Rojas et al.(2015)Rojas, Montero, and Riff] Nicolas Rojas, Elizabeth Montero, and Maria-Cristina Riff. 2015. Using anti-pheromone to identify core objects for multidimensional knapsack problems: A two-step ants based approach. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1469–1470, Madrid, Spain. ACM.
- [Rothlauf(2015)] Franz Rothlauf. 2015. Representations for evolutionary algorithms. In *GECCO 2015 Introductory Tutorials*, pages 345–366, Madrid, Spain. ACM.
- [Runka and White(2015)] Andrew Runka and Tony White. 2015. Evolving neurocontrollers for the control of information diffusion in social networks. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1471–1472, Madrid, Spain. ACM.
- [Rush et al.(2015)Rush, Tauritz, and Kent] George Rush, Daniel R. Tauritz, and Alexander D. Kent. 2015. Coevolutionary agent-based network defense lightweight event system (candles). In SecDef'2015 Workshop on genetic and evolutionary computation in defense, security and risk management, pages 859–866, Madrid, Spain. ACM.
- [Ryser-Welch et al.(2015a)Ryser-Welch, Miller, and Asta] Patricia Ryser-Welch, Julian F. Miller, and Shahriar Asta. 2015a. Generating human-readable algorithms for the travelling salesman problem using hyper-heuristics. In GECCO 2015 5th Workshop on Evolutionary Computation for the Automated Design of Algorithms (ECADA'15), pages 1067–1074, Madrid, Spain. ACM.
- [Ryser-Welch et al.(2015b)Ryser-Welch, Miller, and Asta] Patricia Ryser-Welch, Julian F. Miller, and Shariar Asta. 2015b. Evolutionary cross-domain hyper-heuristics. In *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1473–1474, Madrid, Spain. ACM.

- [Salah and Hart(2015)] Ahmed Salah and Emma Hart. 2015. Grid diversity operator for some population-based optimization algorithms. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1475–1476, Madrid, Spain. ACM.
- [Santana et al.(2015)Santana, Mendiburu, and Lozano] Roberto Santana, Alexander Mendiburu, and Jose A. Lozano. 2015. Multi-objective nm-landscapes. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1477–1478, Madrid, Spain. ACM.
- [Santucci et al.(2015)Santucci, Baioletti, and Milani] Valentino Santucci, Marco Baioletti, and Alfredo Milani. 2015. An algebraic differential evolution for the linear ordering problem. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1479–1480, Madrid, Spain. ACM.
- [Sapin et al.(2015)Sapin, De Jong, and Shehu] Emmanuel Sapin, Kenneth De Jong, and Amarda Shehu. 2015. Mapping multiple minima in protein energy landscapes with evolutionary algorithms. In *GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology*, pages 923–927, Madrid, Spain. ACM.
- [Sato et al.(2015)Sato, Miyakawa, and Perez-Cortes] Hiroyuki Sato, Minami Miyakawa, and Elizabeth Perez-Cortes. 2015. A parallel moea/d generating solutions in minimum overlapped update ranges of solutions. In *GECCO 2015 Late-Breaking Abstracts*, pages 775–776, Madrid, Spain. ACM.
- [Scheibenpflug et al.(2015)Scheibenpflug, Beham, Kommenda, Karder, Wagner, and Affenzeller]
  Andreas Scheibenpflug, Andreas Beham, Michael Kommenda, Johannes Karder, Stefan Wagner,
  and Michael Affenzeller. 2015. Simplifying problem definitions in the heuristiclab optimization
  environment. In GECCO 2015 Workshop on Evolutionary Computation Software Systems
  (EvoSoft'15), pages 1101–1108, Madrid, Spain. ACM.
- [Schmitt et al.(2015)Schmitt, Seufert, Zoubek, and Koestler] Jonas Schmitt, Sabine Seufert, Christian Zoubek, and Harald Koestler. 2015. Potential-field-based unit behavior optimization for balancing in starcraft ii. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1481–1482, Madrid, Spain. ACM.
- [Schulte et al.(2015)Schulte, Weimer, and Forrest] Eric M. Schulte, Westley Weimer, and Stephanie Forrest. 2015. Repairing cots router firmware without access to source code or test suites: A case study in evolutionary software repair. In *Genetic Improvement 2015 Workshop*, pages 847–854, Madrid, Spain. ACM.
- [Scott and Bassett(2015)] Eric O. Scott and Jeffrey K. Bassett. 2015. Learning genetic representations for classes of real-valued optimization problems. In GECCO 2015 5th Workshop on Evolutionary Computation for the Automated Design of Algorithms (ECADA'15), pages 1075–1082, Madrid, Spain. ACM.
- [Scott and De Jong(2015)] Eric O. Scott and Kenneth A. De Jong. 2015. Evaluation-time bias in asynchronous evolutionary algorithms. In *GECCO'15 Student Workshop*, pages 1209–1212, Madrid, Spain. ACM.
- [Shehu and De Jong(2015)] Amarda Shehu and Kenneth De Jong. 2015. Evolutionary algorithms for protein structure modeling. In *GECCO 2015 Advanced Tutorials*, pages 533–545, Madrid, Spain. ACM.
- [Sher(2015)] Gene Sher. 2015. Momentum enhanced neuroevolution. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1483–1484, Madrid, Spain. ACM.

- [Sim and Hart(2015)] Kevin Sim and Emma Hart. 2015. A novel heuristic generator for jssp using a tree-based representation of dispatching rules. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1485–1486, Madrid, Spain. ACM.
- [Smith(2015)] Stephen L. Smith. 2015. Medical applications of evolutionary computation. In *GECCO* 2015 Specialized Tutorials, pages 651–679, Madrid, Spain. ACM.
- [Soares et al.(2015)Soares, Fernandes, and Bastos-Filho] Alessandra M. Soares, Bruno J.T. Fernandes, and Carmelo J.A. Bastos-Filho. 2015. Pyramidal neural networks with variable receptive fields designed by genetic algorithms. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1487–1488, Madrid, Spain. ACM.
- [Spector(2015)] Lee Spector. 2015. Expressive genetic programming. In GECCO 2015 Advanced Tutorials, pages 409–434, Madrid, Spain. ACM.
- [Stanley(2015)] Kenneth O. Stanley. 2015. Generative and developmental systems tutorial. In *GECCO* 2015 Advanced Tutorials, pages 503–532, Madrid, Spain. ACM.
- [Stehling et al.(2015)Stehling, DE Souza, and De Franca Filho] Thiago Muniz Stehling, Sergio Ricado DE Souza, and Moacir F. De Franca Filho. 2015. A hybrid particle swarm optimization for solving vehicle routing problem with time windows. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1489–1490, Madrid, Spain. ACM.
- [Steyven et al.(2015)Steyven, Hart, and Paechter] Andreas Steyven, Emma Hart, and Ben Paechter. 2015. The cost of communication: Environmental pressure and survivability in medea. In GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop, pages 1239–1240, Madrid, Spain. ACM.
- [Stoean et al.(2015)Stoean, Stoean, Sandita, Mesina, Gruia, and Ciobanu] Catalin Stoean, Ruxandra Stoean, Adrian Sandita, Cristian Mesina, Corina Lavinia Gruia, and Daniela Ciobanu. 2015. Evolutionary search for an accurate contour segmentation in histopathological images. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1491–1492, Madrid, Spain. ACM.
- [Stuetzle and Lopez-Ibanez(2015)] Thomas Stuetzle and Manuel Lopez-Ibanez. 2015. Automatic (offline) configuration of algorithms. In *GECCO 2015 Specialized Tutorials*, pages 681–702, Madrid, Spain. ACM.
- [Sudholt(2015)] Dirk Sudholt. 2015. Theory of swarm intelligence. In GECCO 2015 Advanced Tutorials, pages 451–471, Madrid, Spain. ACM.
- [Sun et al.(2015)Sun, Kirley, and Halgamuge] Yuan Sun, Michael Kirley, and Saman Kumara Halgamuge. 2015. On the selection of decomposition methods for large scale fully non-separable problems. In *GECCO'15 Student Workshop*, pages 1213–1216, Madrid, Spain. ACM.
- [Sungu and Boz(2015)] Gizem Sungu and Betul Boz. 2015. An evolutionary algorithm for weighted graph coloring problem. In *GECCO'15 Student Workshop*, pages 1233–1236, Madrid, Spain. ACM.
- [Takadama(2015)] Keiki Takadama. 2015. A potential of evolutionary rule-based machine learning for real world applications. In GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems), pages 1039–1040, Madrid, Spain. ACM.
- [Tanabe(2015)] Ryoji Tanabe. 2015. A note on multi-funnel functions for expensive optimization scenario. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1493–1494, Madrid, Spain. ACM.

- [Thierens and Bosman(2015)] Dirk Thierens and Peter A.N. Bosman. 2015. Model-based evolutionary algorithms. In *GECCO 2015 Introductory Tutorials*, pages 93–120, Madrid, Spain. ACM.
- [Tomassini(2015)] Marco Tomassini. 2015. Introduction to complex networks. In GECCO 2015 Introductory Tutorials, pages 163–178, Madrid, Spain. ACM.
- [Trueba et al.(2015)Trueba, Prieto, Bellas, and Duro] Pedro Trueba, Abraham Prieto, Francisco Bellas, and Richard J. Duro. 2015. Embodied evolution for collective indoor surveillance and location. In GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop, pages 1241–1242, Madrid, Spain. ACM.
- [Trunfio(2015)] Giuseppe A. Trunfio. 2015. An effective approach for adapting the size of subcomponents in large-scale optimization with cooperative coevolution. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1495–1496, Madrid, Spain. ACM.
- [Tsang and Lau(2015)] Wilburn W.P. Tsang and Henry Y.K. Lau. 2015. A grid-facilitated ais-based network scheme for many-objective optimization. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1497–1498, Madrid, Spain. ACM.
- [Tsutsui and Fujimoto(2015)] Shigeyoshi Tsutsui and Noriyuki Fujimoto. 2015. A comparative study of synchronization of parallel aco on multi-core processor. In *GECCO 2015 Late-Breaking Abstracts*, pages 777–778, Madrid, Spain. ACM.
- [Turner and Miller(2015)] Andrew James Turner and Julian Francis Miller. 2015. Recurrent cartesian genetic programming applied to series forecasting. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1499–1500, Madrid, Spain. ACM.
- [Ugolotti and Cagnoni(2015)] Roberto Ugolotti and Stefano Cagnoni. 2015. Automatic tuning of standard pso versions. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1501–1502, Madrid, Spain. ACM.
- [Urbanowicz and Browne(2015)] Ryan Urbanowicz and Will Browne. 2015. Introducing rule-based machine learning: A practical guide. In *GECCO 2015 Introductory Tutorials*, pages 263–292, Madrid, Spain. ACM.
- [Urbanowicz et al.(2015)Urbanowicz, Ramanand, and Moore] Ryan Urbanowicz, Niranjan Ramanand, and Jason Moore. 2015. Continuous endpoint data mining with exstracs: A supervised learning classifier system. In GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems), pages 1029–1036, Madrid, Spain. ACM.
- [Urquhart et al.(2015)Urquhart, Hart, and Judson] Neil B. Urquhart, Emma Hart, and Alistair Judson. 2015. Multi-modal employee routing with time windows in an urban environment. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1503–1504, Madrid, Spain. ACM.
- [Varela and Santos(2015)] Daniel Varela and Jose Santos. 2015. Combination of differential evolution and fragment-based replacements for protein structure prediction. In GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology, pages 911–914, Madrid, Spain. ACM.
- [Vargas et al.(2015) Vargas, Takano, and Murata] Danilo Vasconcellos Vargas, Hirotaka Takano, and Junichi Murata. 2015. The relationship between (un)fractured problems and division of input space. In GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems), pages 981–987, Madrid, Spain. ACM.

- [Vasicek and Sekanina(2015)] Zdenek Vasicek and Lukas Sekanina. 2015. Evolutionary approximation of complex digital circuits. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1505–1506, Madrid, Spain. ACM.
- [Velasco et al.(2015)Velasco, Winkler, Hidalgo, Garnica, Lanchares, Colmenar, Maqueda, Botella, and Rubio]
  - J. Manuel Velasco, Stephan Winkler, J. Ignacio Hidalgo, Oscar Garnica, Juan Lanchares,
  - J. Manuel Colmenar, Esther Maqueda, Marta Botella, and Jose-Antonio Rubio. 2015. Databased identification of prediction models for glucose. In *GECCO 2015 Medical Applications of Genetic and Evolutionary Computation (MedGEC'15) Workshop*, pages 1327–1334, Madrid, Spain. ACM.
- [Verbancsics(2015)] Phillip Verbancsics. 2015. Impact of speciation heuristic on crossover and search in neat. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1509–1510, Madrid, Spain. ACM.
- [Verbancsics and Harguess (2015)] Phillip Verbancsics and Josh Harguess. 2015. Classifying maritime vessels from satellite imagery with hyperneat. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1507–1508, Madrid, Spain. ACM.
- [von Luecken et al.(2015)von Luecken, Monzon, Brizuela, and Baran] Christian von Luecken, Hugo Monzon, Carlos Brizuela, and Benjamin Baran. 2015. Dimensionality reduction in many-objective problems combining pca and spectral clustering. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1511–1512, Madrid, Spain. ACM.
- [Wagy and Bongard (2015)] Mark D. Wagy and Josh C. Bongard. 2015. Crowdseeding robot design. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1513–1514, Madrid, Spain. ACM.
- [Walker(2015)] David J. Walker. 2015. Visualising multi-objective populations with treemaps. In 6th Workshop on Visualisation Methods in Genetic and Evolutionary Computation (VizGEC 2015), pages 963–970, Madrid, Spain. ACM.
- [bin Wang et al.(2015)bin Wang, Chen, Zhang, and Lin] Jia bin Wang, Wei-Neng Chen, Jun Zhang, and Ying Lin. 2015. A dimension-decreasing particle swarm optimization method for portfolio optimization. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1515–1516, Madrid, Spain. ACM.
- [Watkins and Buttkewitz(2015)] Chris Watkins and Yvonne Buttkewitz. 2015. Efficient sampling with small populations: a genetic algorithm satisfying detailed balance. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1517–1518, Madrid, Spain. ACM.
- [Weiss Cohen et al.(2015)Weiss Cohen, Dahan, and Kaspi] Miri Weiss Cohen, Adi Dahan, and Izzik Kaspi. 2015. Software system for container vessel stowage planning using genetic algorithm. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1519–1520, Madrid, Spain. ACM.
- [White and Singer(2015)] David R. White and Jeremy Singer. 2015. Rethinking genetic improvement programming. In *Genetic Improvement 2015 Workshop*, pages 845–846, Madrid, Spain. ACM.
- [White et al.(2015)White, Yoo, and Singer] David R. White, Shin Yoo, and Jeremy Singer. 2015. The programming game: Evaluating mets as an alternative to gp for symbolic regression. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1521–1522, Madrid, Spain. ACM.
- [Whitley(2015)] Darrell Whitley. 2015. Blind no more: Constant time non-random improving moves and exponentially powerful recombination. In *GECCO 2015 Advanced Tutorials*, pages 391–407, Madrid, Spain. ACM.

- [Woodward and Tauritz (2015)] John R. Woodward and Daniel R. Tauritz. 2015. Hyper-heuristics. In GECCO 2015 Introductory Tutorials, pages 199–230, Madrid, Spain. ACM.
- [Wu et al.(2015)Wu, Chen, Lee, and Hsiao] Yao-Ming Wu, Liang-Yu Chen, Po-Ming Lee, and Tzu-Chien Hsiao. 2015. Enable the xcs to dynamically learn multiple problems: A sensor tagging approach. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1523–1524, Madrid, Spain. ACM.
- [Xie et al.(2015)Xie, Mei, and Song] Jing Xie, Yi Mei, and Andy Song. 2015. Evolving self-adaptive tabu search algorithm for storage location assignment problems. In *GECCO 2015 Late-Breaking Abstracts*, pages 779–780, Madrid, Spain. ACM.
- [Yang(2015)] Shengxiang Yang. 2015. Evolutionary computation for dynamic optimization problems. In GECCO 2015 Advanced Tutorials, pages 629–649, Madrid, Spain. ACM.
- [Yeboah-Antwi and Baudry(2015)] Kwaku Yeboah-Antwi and Benoit Baudry. 2015. Embedding adaptivity in software systems using the ecselr framework. In *Genetic Improvement 2015 Workshop*, pages 839–844, Madrid, Spain. ACM.
- [Yliniemi and Tumer(2015)] Logan Yliniemi and Kagan Tumer. 2015. Complete multi-objective coverage with paccet. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1525–1526, Madrid, Spain. ACM.
- [Zahadat et al.(2015)Zahadat, Hamann, and Schmickl] Payam Zahadat, Heiko Hamann, and Thomas Schmickl. 2015. Evolving diverse collective behaviors independent of swarm density. In *GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop*, pages 1245–1246, Madrid, Spain. ACM.
- [Zegklitz and Posik(2015a)] Jan Zegklitz and Petr Posik. 2015a. Model selection and overfitting in genetic programming: Empirical study. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1527–1528, Madrid, Spain. ACM.
- [Zegklitz and Posik(2015b)] Jan Zegklitz and Petr Posik. 2015b. Symbolic regression by grammar-based multi-gene genetic programming. In *GECCO'15 Student Workshop*, pages 1217–1220, Madrid, Spain. ACM.
- [Zhang and Cagnoni(2015)] Mengjie Zhang and Stefano Cagnoni. 2015. Evolutionary image analysis, signal processing and pattern recognition. In *GECCO 2015 Advanced Tutorials*, pages 473–502, Madrid, Spain. ACM.
- [Zhang and Deng(2015)] Mingan Zhang and Yong Deng. 2015. An improved artificial fish swarm algorithm in image segmentation application. In *GECCO 2015 Late-Breaking Abstracts*, pages 781–782, Madrid, Spain. ACM.
- [Zheng et al.(2015)Zheng, Bai, Shen, and Li] Jinhua Zheng, Hui Bai, Ruimin Shen, and Miqing Li. 2015. A comparative study use of otl for many-objective optimization. In GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference, pages 1411–1412, Madrid, Spain. ACM.