

Список литературы

- [1] Youhei Akimoto and Anne Auger, *Theory of evolution strategies and related algorithms*, GECCO 2015 Advanced Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 575–588.
- [2] Youhei Akimoto, Anne Auger, and Nikolaus Hansen, *Continuous optimization and cma-es*, GECCO 2015 Introductory Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 313–344.
- [3] Enrique Alba, *Intelligent systems for smart cities*, GECCO 2015 Specialized Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 707–722.
- [4] Hamzeh J. Aljawawdeh, Christopher L. Simons, and Mohammed Odeh, *Metaheuristic design pattern: Preference*, GECCO 2015 2nd Workshop on Metaheuristic Design Patterns (MetaDeeP’15) (Madrid, Spain) (Chris Simons, Jerry Swan, Krzysztof Krawiec, Daniel Tauritz, and Jim Smith, eds.), ACM, 11-15 July 2015, pp. 1257–1260.
- [5] Lokman Altin, Haluk Rahmi Topcuoglu, and Murat Ermis, *Evolutionary dynamic optimization techniques for marine contamination problem*, SecDef’2015 - Workshop on genetic and evolutionary computation in defense, security and risk management (Madrid, Spain) (Frank W. Moore and Nur Zincir-Heywood, eds.), ACM, 11-15 July 2015, pp. 889–892.
- [6] Khulood Alyahya and Jonathan E. Rowe, *Landscape properties of the 0-1 knapsack problem*, GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1343–1344.
- [7] Maria-Yaneli Ameca-Alducin, Efren Mezura-Montes, and Nicandro Cruz-Ramirez, *Differential evolution with a repair method to solve dynamic constrained optimization problems*, GECCO’15 Student Workshop (Madrid, Spain) (Tea Tusar and Boris Naujoks, eds.), ACM, 11-15 July 2015, pp. 1169–1172.
- [8] Lourdes Araujo, Juan Martinez-Romo, and Andres Duque, *Grammatical evolution for identifying wikipedia taxonomies*, GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1345–1346.
- [9] Sandra Astete-Morales, Marie-Liesse Cauwet, and Olivier Teytaud, *Criteria and convergence rates in noisy optimization*, GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof

- Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1347–1348.
- [10] Asma Atamna, *Benchmarking ipop-cma-es-tpa and ipop-cma-es-msr on the bbob noiseless testbed*, Black Box Optimization Benchmarking (BBOB 2015) Workshop (Madrid, Spain) (Youhei Akimoto, Anne Auger, Dimo Brockhoff, Nikolaus Hansen, Olaf Mersmann, and Petr Posik, eds.), ACM, 11-15 July 2015, pp. 1135–1142.
 - [11] Emrah Atilgan and Jianjun Hu, *A combinatorial genetic algorithm for computational doping based material design*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1349–1350.
 - [12] Joshua E. Auerbach, Gregoire Heitz, Przemyslaw M. Kornatowski, and Dario Floreano, *Rapid evolution of robot gaits*, GECCO 2015 Late-Breaking Abstracts (Madrid, Spain) (Dirk Sudholt, ed.), ACM, 11-15 July 2015, pp. 743–744.
 - [13] Mayowa Ayodele, John McCall, and Olivier Regnier-Coudert, *Probabilistic model enhanced genetic algorithm for multi-mode resource constrained project scheduling problem*, GECCO 2015 Late-Breaking Abstracts (Madrid, Spain) (Dirk Sudholt, ed.), ACM, 11-15 July 2015, pp. 745–746.
 - [14] Lukas Bajer, Zbynek Pitra, and Martin Holena, *Benchmarking gaussian processes and random forests surrogate models on the bbob noiseless testbed*, Black Box Optimization Benchmarking (BBOB 2015) Workshop (Madrid, Spain) (Youhei Akimoto, Anne Auger, Dimo Brockhoff, Nikolaus Hansen, Olaf Mersmann, and Petr Posik, eds.), ACM, 11-15 July 2015, pp. 1143–1150.
 - [15] ———, *Investigation of gaussian processes and random forests as surrogate models for evolutionary black-box optimization*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1351–1352.
 - [16] Alejandro Baldominos, Yago Saez, and Pedro Isasi, *Feature set optimization for physical activity recognition using genetic algorithms*, GECCO 2015 Medical Applications of Genetic and Evolutionary Computation (MedGEC'15) Workshop (Madrid, Spain) (Stephen L. Smith, Stefano Cagnoni, and Robert M. Patton, eds.), ACM, 11-15 July 2015, pp. 1311–1318.
 - [17] Zorana Bankovic and Pedro Lopez-Garcia, *Energy efficient allocation and scheduling for dufs-enabled multicore environments using a multiobjective evolutionary algorithm*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B.

- Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1353–1354.
- [18] Amit Benbassat and Avishai Henik, *Examining the stroop effect using a developmental spatial neuroevolution system*, GECCO 2015 Late-Breaking Abstracts (Madrid, Spain) (Dirk Sudholt, ed.), ACM, 11-15 July 2015, pp. 747–748.
 - [19] Benjamin Berger, Alvin Andino, Andrew Danise, and John Rieffel, *Growing and evolving vibrationally actuated soft robots*, GECCO’15 Student Workshop (Madrid, Spain) (Tea Tusar and Boris Naujoks, eds.), ACM, 11-15 July 2015, pp. 1221–1224.
 - [20] Anton Bernatskiy and Joshua C. Bongard, *Exploiting the relationship between structural modularity and sparsity for faster network evolution*, GECCO’15 Student Workshop (Madrid, Spain) (Tea Tusar and Boris Naujoks, eds.), ACM, 11-15 July 2015, pp. 1173–1176.
 - [21] Arnaud Berny, *Herding evolutionary algorithm*, GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1355–1356.
 - [22] Jia bin Wang, Wei-Neng Chen, Jun Zhang, and Ying Lin, *A dimension-decreasing particle swarm optimization method for portfolio optimization*, GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1515–1516.
 - [23] Mahmoud Bokhari and Markus Wagner, *Improving test coverage of formal verification systems via beam search*, GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1357–1358.
 - [24] Mohamed Boussaa, Olivier Barais, Gerson Sunye, and Benoit Baudry, *A novelty search-based test data generator for object-oriented programs*, GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro

- Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1359–1360.
- [25] Can Bozdogan, Yasemin Gokcen, and Ibrahim Zincir, *A preliminary investigation on the identification of peer to peer network applications*, SecDef’2015 - Workshop on genetic and evolutionary computation in defense, security and risk management (Madrid, Spain) (Frank W. Moore and Nur Zincir-Heywood, eds.), ACM, 11-15 July 2015, pp. 883–888.
 - [26] Nicolas Bredeche, Stephane Doncieux, and Jean-Baptiste Mouret, *Tutorial on evolutionary robotics*, GECCO 2015 Introductory Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 231–261.
 - [27] Nicolas Bredeche, Evert Haasdijk, and Abraham Prieto, *Elements of embodied evolutionary robotics*, GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR’15) Workshop (Madrid, Spain) (Abraham Prieto, Nicolas Bredeche, and Evert Haasdijk, eds.), ACM, 11-15 July 2015, pp. 1247–1247.
 - [28] Carlos Brizuela, Rosario I. Corona, Christian Lezcano, David Rodriguez, and Jose D. Colbes, *An experimental analysis of the performance of sidechain packing algorithms*, GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology (Madrid, Spain) (Jose Santos, Julia Handl, and Amarda Shehu, eds.), ACM, 11-15 July 2015, pp. 929–933.
 - [29] Dimo Brockhoff, Bernd Bischl, and Tobias Wagner, *The impact of initial designs on the performance of matsumoto on the noiseless bbob-2015 testbed: A preliminary study*, Black Box Optimization Benchmarking (BBOB 2015) Workshop (Madrid, Spain) (Youhei Akimoto, Anne Auger, Dimo Brockhoff, Nikolaus Hansen, Olaf Mersmann, and Petr Posik, eds.), ACM, 11-15 July 2015, pp. 1159–1166.
 - [30] Dimo Brockhoff and Tobias Wagner, *Tutorial on evolutionary multiobjective optimization*, GECCO 2015 Introductory Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 37–63.
 - [31] James Brookhouse and Fernando E.B. Otero, *Discovering regression rules with ant colony optimization*, GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems) (Madrid, Spain) (Karthik Kuber, Masaya Nakata, and Kamran Shafi, eds.), ACM, 11-15 July 2015, pp. 1005–1012.
 - [32] Alexander E.I. Brownlee, John R. Woodward, and Jerry Swan, *Metaheuristic design pattern: Surrogate fitness functions*, GECCO 2015 2nd Workshop on Metaheuristic Design Patterns (MetaDeeP’15) (Madrid, Spain) (Chris Simons, Jerry Swan, Krzysztof Krawiec, Daniel Tauritz, and Jim Smith, eds.), ACM, 11-15 July 2015, pp. 1261–1264.
 - [33] Bobby R. Bruce, *Energy optimisation via genetic improvement: A sbse technique for a new era in software development*, Genetic Improvement 2015 Workshop (Madrid, Spain) (W. B. Langdon, David R. White, and Justyna Petke, eds.), ACM, 11-15 July 2015, pp. 819–820.
 - [34] Nathan Burles, Jerry Swan, Edward Bowles, Alexander E.I. Brownlee, Zoltan A. Kocsis, and Nadarajen Veerapen, *Embedded dynamic improvement*, Genetic Improvement 2015 Workshop (Madrid, Spain) (W. B. Langdon, David R. White, and Justyna Petke, eds.), ACM, 11-15 July 2015, pp. 831–832.
 - [35] Maxim Buzdalov and Vladimir Parfenov, *Various degrees of steadiness in nsga-ii and their influence on the quality of results*, GECCO 2015 Late-Breaking Abstracts (Madrid, Spain) (Dirk Sudholt, ed.), ACM, 11-15 July 2015, pp. 749–750.
 - [36] Arina Buzdalova, Anna Matveeva, and Georgiy Korneev, *Selection of auxiliary objectives with multi-objective reinforcement learning*, GECCO’15 Student Workshop (Madrid, Spain) (Tea Tusar and Boris Naujoks, eds.), ACM, 11-15 July 2015, pp. 1177–1180.

- [37] Federico Cabassi and Marco Locatelli, *A computational comparison of memetic differential evolution approaches*, GECCO'15 Student Workshop (Madrid, Spain) (Tea Tutar and Boris Naujoks, eds.), ACM, 11-15 July 2015, pp. 1181–1184.
- [38] Riccardo Cantoro, Marco Gaudesi, Ernesto Sanchez, and Giovanni Squillero, *Exploiting evolutionary computation in an industrial flow for the development of code-optimized microprocessor test programs*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Jacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1465–1466.
- [39] Miguel Cardenas-Montes, Miguel Angel Vega-Rodriguez, Juan Jose Rodriguez-Vazquez, and Antonio Gomez-Iglesias, *A comparison exercise on parallel evaluation of rosenbrock function*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Jacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1361–1362.
- [40] Abir Chaabani, Slim Bechikh, Lamjed Ben Said, and Radhia Azzouz, *An improved co-evolutionary decomposition-based algorithm for bi-level combinatorial optimization*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Jacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1363–1364.
- [41] Thomas Chabin, Alberto Tonda, and Evelyne Lutton, *Is global sensitivity analysis useful to evolutionary computation?*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Jacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1365–1366.
- [42] Olfa Chebbi and Jouhaina Chaouachi, *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*, GECCO 2015 Late-Breaking Abstracts (Madrid, Spain) (Dirk Sudholt, ed.), ACM, 11-15 July 2015, pp. 751–752.

- [43] Liang-Yu Chen, Po-Ming Lee, and Tzu-Chien Hsiao, *Dynamically adding sensors to the xcs in multistep problems: A sensor tagging approach*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1367–1368.
- [44] ———, *A novel representation of classifier conditions named sensory tag for the xcs in multistep problems*, GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems) (Madrid, Spain) (Karthik Kuber, Masaya Nakata, and Kamran Shafi, eds.), ACM, 11-15 July 2015, pp. 973–980.
- [45] Gopinath Chennupati, R. Muhammad Atif Azad, and Conor Ryan, *On the automatic generation of efficient parallel iterative sorting algorithms*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1369–1370.
- [46] Gopinath Chennupati, R. Muhammd Atif Azad, and Conor Ryan, *Synthesis of parallel iterative sorts with multi-core grammatical evolution*, GECCO 2015 5th Workshop on Evolutionary Computation for the Automated Design of Algorithms (ECADA'15) (Madrid, Spain) (John Woodward, Daniel Tauritz, and Manuel Lopez-Ibanez, eds.), ACM, 11-15 July 2015, pp. 1059–1066.
- [47] Daniil Chivilikhin, Ilya Ivanov, and Anatoly Shalyto, *Inferring temporal properties of finite-state machine models with genetic programming*, GECCO'15 Student Workshop (Madrid, Spain) (Tea Tusar and Boris Naujoks, eds.), ACM, 11-15 July 2015, pp. 1185–1188.
- [48] Jacqueline Christmas, *Genetic c programming with probabilistic evaluation*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1371–1372.
- [49] Brendan Cody-Kenny, Edgar Galvan-Lopez, and Stephen Barrett, *locogp: Improving performance by genetic programming java source code*, Genetic Improvement 2015 Workshop (Madrid, Spain) (W. B. Langdon, David R. White, and Justyna Petke, eds.), ACM, 11-15 July 2015, pp. 811–818.
- [50] Carlos Artemio Coello Coello, *Constraint-handling techniques used with evolutionary algorithms*, GECCO 2015 Advanced Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 367–389.

- [51] Antonio Cruz, Penousal Machado, Filipe Assuncao, and Antonio Leitao, *Elicit: Evolutionary computation visualization*, 6th Workshop on Visualisation Methods in Genetic and Evolutionary Computation (VizGEC 2015) (Madrid, Spain) (David Walker, Richard Everson, and Jonathan Fieldsend, eds.), ACM, 11-15 July 2015, pp. 949–956.
- [52] Sylvain Cussat-Blanc and Wolfgang Banzhaf, *Introduction to gene regulatory networks*, GECCO 2015 Advanced Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 589–601.
- [53] Jose-Matias Cutillas-Lozano, Miguel-Angel Franco, and Domingo Gimenez, *Comparing variable width backtracking and metaheuristics, experiments with the maximum diversity problem*, GECCO 2015 Late-Breaking Abstracts (Madrid, Spain) (Dirk Sudholt, ed.), ACM, 11-15 July 2015, pp. 753–754.
- [54] Jaime J. Davila, *An empirical comparison of genetically evolved programs and evolved neural networks for multi-agent systems operating under dynamic environments*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1373–1374.
- [55] Roy de Bokx, Dirk Thierens, and Peter A.N. Bosman, *In search of optimal linkage trees*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1375–1376.
- [56] Kenneth A. De Jong, *Evolutionary computation: A unified approach*, GECCO 2015 Introductory Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 21–35.
- [57] Paloma de las Cuevas Delgado, Juan Julian Merelo, and Pablo Garcia Sanchez, *Soft computing techniques applied to corporate and personal security*, GECCO'15 Student Workshop (Madrid, Spain) (Tea Tutar and Boris Naujoks, eds.), ACM, 11-15 July 2015, pp. 1193–1196.
- [58] Jeremie Decock, Jialin Liu, and Olivier Tetaud, *Variance reduction in population-based optimization: Application to unit commitment*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1377–1378.
- [59] Tom Decroos, Patrick De Causmaecker, and Bart Demeo, *Solving euclidean steiner tree problems with multi swarm optimization*, GECCO Companion '15: Proceedings of the Companion

Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1379–1380.

- [60] Hans Degroote and Patrick De Causmaecker, *Towards a knowledge base for performance data: A formal model for performance comparison*, GECCO'15 Student Workshop (Madrid, Spain) (Tea Tusar and Boris Naujoks, eds.), ACM, 11-15 July 2015, pp. 1189–1192.
- [61] Travis DeVautl, Seth Forrest, Ian Tanimoto, Terence Soule, and Robert Heckendorn, *Learning from demonstration for distributed, encapsulated evolution of autonomous outdoor robots*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1381–1382.
- [62] Josefa Diaz Alvarez, J. Manuel Colmenar, Jose L. Risco-Martin, Juan Lanchares, and Oscar Garnica, *Optimizing performance of l1 cache memory for embedded systems driven by differential evolution*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1383–1384.
- [63] Viktoria Dorfer, Sergey Maltsev, Stephan Dreiseitl, Karl Mechtler, and Stephan M. Winkler, *A symbolic regression based scoring system improving peptide identifications for ms amanda*, GECCO 2015 Medical Applications of Genetic and Evolutionary Computation (MedGEC'15) Workshop (Madrid, Spain) (Stephen L. Smith, Stefano Cagnoni, and Robert M. Patton, eds.), ACM, 11-15 July 2015, pp. 1335–1341.
- [64] Madalina M. Drugan, *Synergies between evolutionary algorithms and reinforcement learning*, GECCO 2015 Specialized Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 723–740.
- [65] Xin Du, Youcong Ni, and Peng Ye, *A multi-objective evolutionary algorithm for rule-based performance optimization at software architecture level*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni,

- JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1385–1386.
- [66] Andries Engelbrecht, *Particle swarm optimization*, GECCO 2015 Introductory Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 65–91.
 - [67] Ezzeddine Fatnassi and Jouhaina Chaouachi, *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*, GECCO 2015 Late-Breaking Abstracts (Madrid, Spain) (Dirk Sudholt, ed.), ACM, 11-15 July 2015, pp. 755–756.
 - [68] Silvino Fernandez, Segundo Alvarez, Eneko Malatsetxebarria, Pablo Valledor, and Diego Diaz, *Performance comparison of ant colony algorithms for the scheduling of steel production lines*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1387–1388.
 - [69] Robyn Ffrancon and Marc Schoenauer, *Greedy semantic local search for small solutions*, GECCO 2015 Semantic Methods in Genetic Programming (SMGP'15) Workshop (Madrid, Spain) (Colin Johnson, Krzysztof Krawiec, Alberto Moraglio, and Michael O'Neill, eds.), ACM, 11-15 July 2015, pp. 1293–1300.
 - [70] Patryk Filipiak, Krzysztof Michalak, and Piotr Lipinski, *Infeasibility driven evolutionary algorithm with the anticipation mechanism for the reaching goal in dynamic constrained inverse kinematics*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1389–1390.
 - [71] Stefan Forstenlechner, Miguel Nicolau, David Fagan, and Michael O'Neill, *Introducing semantic-clustering selection in grammatical evolution*, GECCO 2015 Semantic Methods in Genetic Programming (SMGP'15) Workshop (Madrid, Spain) (Colin Johnson, Krzysztof Krawiec, Alberto Moraglio, and Michael O'Neill, eds.), ACM, 11-15 July 2015, pp. 1277–1284.
 - [72] Jamisson Santana Freitas, Cicero Garrozi, and Meuser Valenca, *Insertion of artificial individuals to increase the diversity of multiobjective evolutionary algorithms*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1391–1392.

- [73] Andrew Gabler, Mitchell Colby, and Kagan Tumer, *Learning based control of a fuel cell turbine hybrid power system*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1393–1394.
- [74] Adam Gaier, *Evolutionary design via indirect encoding of non-uniform rational basis splines*, GECCO'15 Student Workshop (Madrid, Spain) (Tea Tusar and Boris Naujoks, eds.), ACM, 11-15 July 2015, pp. 1197–1200.
- [75] Wanru Gao, Mojgan Pourhassan, and Frank Neumann, *Runtime analysis of evolutionary diversity optimization and the vertex cover problem*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1395–1396.
- [76] Mario Garza-Fabre, Shaun M. Kandathil, Julia Handl, Joshua D. Knowles, and Simon C. Lovell, *Using machine learning to explore the relevance of local and global features during conformational search in rosetta*, GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology (Madrid, Spain) (Jose Santos, Julia Handl, and Amarda Shehu, eds.), ACM, 11-15 July 2015, pp. 935–938.
- [77] Leidy Patricia Garzon-Rodriguez, Henry Alberto Diosa, and Sergios Rojas-Galeano, *Deconstructing gas into visual software components*, GECCO 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft'15) (Madrid, Spain) (Stefan Wagner and Michael Affenzeller, eds.), ACM, 11-15 July 2015, pp. 1125–1132.
- [78] Marco Gaudesi, Andrea Marcelli, Ernesto Sanchez, Giovanni Squillero, and Alberto Tonda, *Malware obfuscation through evolutionary packers*, GECCO 2015 Late-Breaking Abstracts (Madrid, Spain) (Dirk Sudholt, ed.), ACM, 11-15 July 2015, pp. 757–758.
- [79] Farshad Ghassemi Toosi, Nikola S. Nikolov, and Malachy Eaton, *Evolving smart initial layouts for force-directed graph drawing*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1397–1398.
- [80] Florian Golemo, Marjeta Markovic, Jasper Schoormans, Peter De Jonge, Maik Couwenberg, and Evert Haasdijk, *Simulating morphological evolution in large robot populations*, GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop (Madrid, Spain) (Abraham Prieto, Nicolas Bredeche, and Evert Haasdijk, eds.), ACM, 11-15 July 2015, pp. 1249–1250.

- [81] Jorge Gomes, Pedro Mariano, and Anders Lyhne Christensen, *Hyb-ccca: Cooperative coevolution of hybrid teams*, GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop (Madrid, Spain) (Abraham Prieto, Nicolas Bredeche, and Evert Haasdijk, eds.), ACM, 11-15 July 2015, pp. 1251–1252.
- [82] Mohammad Gorji Sefidmazgi, Mina Moradi Kordmahalleh, and Abdollah Homaifar, *Identification of switched models in non-stationary time series based on coordinate-descent and genetic algorithm*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1399–1400.
- [83] Kevin Graham, Jerry Swan, and Simon Martin, *The 'blackboard pattern' for metaheuristics*, GECCO 2015 2nd Workshop on Metaheuristic Design Patterns (MetaDeeP'15) (Madrid, Spain) (Chris Simons, Jerry Swan, Krzysztof Krawiec, Daniel Tauritz, and Jim Smith, eds.), ACM, 11-15 July 2015, pp. 1265–1267.
- [84] Fariba Haddadi and A. Nur Zincir-Heywood, *Botnet detection system analysis on the effect of botnet evolution and feature representation*, SecDef'2015 - Workshop on genetic and evolutionary computation in defense, security and risk management (Madrid, Spain) (Frank W. Moore and Nur Zincir-Heywood, eds.), ACM, 11-15 July 2015, pp. 893–900.
- [85] Heiko Hamann, *Evolution of collective behaviors by minimizing surprisal and by micro-macro links*, GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop (Madrid, Spain) (Abraham Prieto, Nicolas Bredeche, and Evert Haasdijk, eds.), ACM, 11-15 July 2015, pp. 1253–1253.
- [86] Saemundur O. Haraldsson and John R. Woodward, *Genetic improvement of energy usage is only as reliable as the measurements are accurate*, Genetic Improvement 2015 Workshop (Madrid, Spain) (W. B. Langdon, David R. White, and Justyna Petke, eds.), ACM, 11-15 July 2015, pp. 821–822.
- [87] Mark Harman and Justyna Petke, *Gi4gi: Improving genetic improvement fitness functions*, Genetic Improvement 2015 Workshop (Madrid, Spain) (W. B. Langdon, David R. White, and Justyna Petke, eds.), ACM, 11-15 July 2015, pp. 793–794.
- [88] Sean Harris, Travis Bueter, and Daniel R. Tauritz, *A comparison of genetic programming variants for hyper-heuristics*, GECCO 2015 5th Workshop on Evolutionary Computation for the Automated Design of Algorithms (ECADA'15) (Madrid, Spain) (John Woodward, Daniel Tauritz, and Manuel Lopez-Ibanez, eds.), ACM, 11-15 July 2015, pp. 1043–1050.
- [89] Taku Hasegawa, Kento Tsukada, Naoki Mori, and Keinosuke Matsumoto, *Adaptive evolution control with p-i similarity index for surrogate-assisted evolutionary computation*, GECCO 2015 Late-Breaking Abstracts (Madrid, Spain) (Dirk Sudholt, ed.), ACM, 11-15 July 2015, pp. 759–760.
- [90] Jacqueline Heinerman, *Collective sharing of knowledge in a dream*, GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop (Madrid, Spain) (Abraham Prieto, Nicolas Bredeche, and Evert Haasdijk, eds.), ACM, 11-15 July 2015, pp. 1243–1244.
- [91] Malcolm I. Heywood and Krzysztof Krawiec, *Solving complex problems with coevolutionary algorithms*, GECCO 2015 Advanced Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 547–573.

- [92] Frantisek Hruska and Jiri Kubalik, *Selection hyper-heuristic using a portfolio of derivative heuristics*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1401–1402.
- [93] Mario Inostroza-Ponta, Camilo Farfan, and Marcio Dorn, *A memetic algorithm for protein structure prediction based on conformational preferences of aminoacid residues*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1403–1404.
- [94] Sandro Izidoro, Anisio M. Lacerda, and Gisele L. Pappa, *Megass: Multi-objective genetic active site search*, GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology (Madrid, Spain) (Jose Santos, Julia Handl, and Amarda Shehu, eds.), ACM, 11-15 July 2015, pp. 905–910.
- [95] Christopher Jankee, Sebastien Verel, Bilel Derbel, and Cyril Flonlupt, *New adaptive selection strategies for distributed adaptive metaheuristic selection*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1405–1406.
- [96] Guanbo Jia, Shan He, Zexuan Zhu, Jing Liu, and Ke Tang, *A multimodal optimization and surprise based consensus community detection algorithm*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1407–1408.
- [97] Yue Jia, Fan Wu, Mark Harman, and Jens Krinke, *Genetic improvement using higher order mutation*, Genetic Improvement 2015 Workshop (Madrid, Spain) (W. B. Langdon, David R. White, and Justyna Petke, eds.), ACM, 11-15 July 2015, pp. 803–804.

- [98] Juan Luis Jimenez Laredo, Frederic Guinand, Damien Olivier, and Pascal Bouvry, *Trading off resource utilization and task migrations in dynamic load-balancing*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1409–1410.
- [99] Colin G. Johnson and John R. Woodward, *Fitness as task-relevant information accumulation*, Genetic Improvement 2015 Workshop (Madrid, Spain) (W. B. Langdon, David R. White, and Justyna Petke, eds.), ACM, 11-15 July 2015, pp. 855–856.
- [100] Chanju Jung, Yong-Hyuk Kim, Yourim Yoon, and Byung-Ro Moon, *An adeptive method of hungarian mating schemes in genetic algorithms*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1413–1414.
- [101] Suwimol Jungjit and Alex Freitas, *A lexicographic multi-objective genetic algorithm for multi-label correlation based feature selection*, GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems) (Madrid, Spain) (Karthik Kuber, Masaya Nakata, and Kamran Shafi, eds.), ACM, 11-15 July 2015, pp. 989–996.
- [102] Reza Karimpour and Guenther Ruhe, *A search based approach towards robust optimization in software product line scoping*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1415–1416.
- [103] Edward Keedwell, Matthew Johns, and Dragan Savic, *Spatial and temporal visualisation of evolutionary algorithm decisions in water distribution network optimisation*, 6th Workshop on Visualisation Methods in Genetic and Evolutionary Computation (VizGEC 2015) (Madrid, Spain) (David Walker, Richard Everson, and Jonathan Fieldsend, eds.), ACM, 11-15 July 2015, pp. 941–948.
- [104] Kamil Krynicki and Javier Jaen, *Antelemnts: An extensible and scalable ant colony optimization middleware*, GECCO 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft'15) (Madrid, Spain) (Stefan Wagner and Michael Affenzeller, eds.), ACM, 11-15 July 2015, pp. 1109–1116.
- [105] Udit Kumar, Jayadeva, and Sumit Soman, *Enhancing incremental ant colony algorithm for continuous global optimization*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid,

- Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1417–1418.
- [106] Jason Landsborough, Stephen Harding, and Sunny Fugate, *Removing the kitchen sink from software*, Genetic Improvement 2015 Workshop (Madrid, Spain) (W. B. Langdon, David R. White, and Justyna Petke, eds.), ACM, 11-15 July 2015, pp. 833–838.
 - [107] William B. Langdon and Mark Harman, *Grow and graft a better cuda pknotsrg for rna pseudoknot free energy calculation*, Genetic Improvement 2015 Workshop (Madrid, Spain) (W. B. Langdon, David R. White, and Justyna Petke, eds.), ACM, 11-15 July 2015, pp. 805–810.
 - [108] Per Kristian Lehre and Pietro S. Oliveto, *Runtime analysis of evolutionary algorithms: Basic introduction*, GECCO 2015 Introductory Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 121–136.
 - [109] Dan Lessin and Sebastian Risi, *Evolved virtual creatures with soft-body muscles: On a bio-mimetic path to meaningful morphological complexity*, GECCO 2015 Late-Breaking Abstracts (Madrid, Spain) (Dirk Sudholt, ed.), ACM, 11-15 July 2015, pp. 761–762.
 - [110] Hai-Hao Li, Zong-Gan Chen, Zhi-Hui Zhan, Ke-Jing Du, and Jun Zhang, *Renumber coevolutionary multiswarm particle swarm optimization for multi-objective workflow scheduling on cloud computing environment*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1419–1420.
 - [111] Lv Liang, Huang Han, Cai Zhaoquan, and Hu Hui, *Using particle swarm large-scale optimization to improve sampling-based image matting*, 6th Workshop on Visualisation Methods in Genetic and Evolutionary Computation (VizGEC 2015) (Madrid, Spain) (David Walker, Richard Everson, and Jonathan Fieldsend, eds.), ACM, 11-15 July 2015, pp. 957–961.
 - [112] Pawel Liskowski, Krzysztof Krawiec, Thomas Helmuth, and Lee Spector, *Comparison of semantic-aware selection methods in genetic programming*, GECCO 2015 Semantic Methods in Genetic Programming (SMGP'15) Workshop (Madrid, Spain) (Colin Johnson, Krzysztof Krawiec, Alberto Moraglio, and Michael O'Neill, eds.), ACM, 11-15 July 2015, pp. 1301–1307.
 - [113] Fabio M.F. Lobato, Vincent W. Tadaiesky, Igor M. Araujo, and Adamo L. de Santana, *An evolutionary missing data imputation method for pattern classification*, GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems) (Madrid, Spain) (Karthik Kuber, Masaya Nakata, and Kamran Shafi, eds.), ACM, 11-15 July 2015, pp. 1013–1019.
 - [114] Fernando G. Lobo and Mosab Bazargani, *When hillclimbers beat genetic algorithms in multimodal optimization*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto,

- Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1421–1422.
- [115] Pedro Lopez-Garcia, Enrique Onieva, Eneko Osaba, Antonio D. Masegosa, and Asier Perallos, *Hybridizing genetic algorithm with cross entropy for solving continuous functions*, GECCO 2015 Late-Breaking Abstracts (Madrid, Spain) (Dirk Sudholt, ed.), ACM, 11-15 July 2015, pp. 763–764.
 - [116] Roberto E. Lopez-Herrejon, Lukas Linsbauer, Wesley K.G. Assuncao, Stefan Fischer, Silvia R. Vergilio, and Alexander Egyed, *Genetic improvement for software product lines: An overview and a roadmap*, Genetic Improvement 2015 Workshop (Madrid, Spain) (W. B. Langdon, David R. White, and Justyna Petke, eds.), ACM, 11-15 July 2015, pp. 823–830.
 - [117] Jaime Machado, Rui Neves, and Nuno Horta, *Developing multi-time frame trading rules with a trend following strategy, using ga*, GECCO 2015 Late-Breaking Abstracts (Madrid, Spain) (Dirk Sudholt, ed.), ACM, 11-15 July 2015, pp. 765–766.
 - [118] Quetzali Madera, Mario Garcia-Valdez, Oscar Castillo, and Alejandra Mancilla, *A method based on interactive evolutionary computation for increasing the effectiveness of advertisement texts*, GECCO’15 Student Workshop (Madrid, Spain) (Tea Tusar and Boris Naujoks, eds.), ACM, 11-15 July 2015, pp. 1225–1228.
 - [119] Dolores Margarida and Carlos Henggeler Antunes, *Multi-objective optimization of sensor placement to detect contamination in water distribution networks*, GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1423–1424.
 - [120] Luca Mariot and Alberto Leporati, *Heuristic search by particle swarm optimization of boolean functions for cryptographic applications*, GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1425–1426.
 - [121] Luis Marti, Christian Grimme, Paskal Kerschke, Heike Trautmann, and Guenter Rudolph, *Averaged hausdorff approximations of pareto fronts based on multiobjective estimation of distribution algorithms*, GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma

- Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1427–1428.
- [122] Matthew A. Martin, Alex R. Bertels, and Daniel R. Tauritz, *Asynchronous parallel evolutionary algorithms: Leveraging heterogeneous fitness evaluation times for scalability and elitist parsimony pressure*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1429–1430.
 - [123] Matthew A. Martin and Daniel R. Tauritz, *Hyper-heuristics: A study on increasing primitive-space*, GECCO 2015 5th Workshop on Evolutionary Computation for the Automated Design of Algorithms (ECADA'15) (Madrid, Spain) (John Woodward, Daniel Tauritz, and Manuel Lopez-Ibanez, eds.), ACM, 11-15 July 2015, pp. 1051–1058.
 - [124] Jabier Martinez, Gabriele Rossi, Tewfik Ziadi, Tegawende Francois D. Assise Bissyande, Jacques Klein, and Yves Le Traon, *Estimating and predicting average likability on computer-generated artwork variants*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1431–1432.
 - [125] Jean P. Martins and Alexandre C.B. Delbem, *Handling crossover bias to improve diversity in multiobjective evolutionary optimization*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1433–1434.
 - [126] John A.W. McCall, Lee A. Christie, and Alexander E.I. Brownlee, *Generating easy and hard problems using the proximate optimality principle*, GECCO 2015 Late-Breaking Abstracts (Madrid, Spain) (Dirk Sudholt, ed.), ACM, 11-15 July 2015, pp. 767–768.
 - [127] David Medernach, Jeannie Fitzgerald, R. Muhammad Atif Azad, and Conor Ryan, *Wave: A genetic programming approach to divide and conquer*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni,

- JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1435–1436.
- [128] ———, *Wave: Incremental erosion of residual error*, GECCO 2015 Semantic Methods in Genetic Programming (SMGP'15) Workshop (Madrid, Spain) (Colin Johnson, Krzysztof Krawiec, Alberto Moraglio, and Michael O'Neill, eds.), ACM, 11-15 July 2015, pp. 1285–1292.
 - [129] Hector David Menendez and David Camacho, *Mogcla: A multi-objective genetic clustering algorithm for large data analysis*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Wiedera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1437–1438.
 - [130] Juan J. Merelo-Guervos, *Low or no cost distributed evolutionary computation*, GECCO 2015 Specialized Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 703–706.
 - [131] Juan J. Merelo-Guervos and Pablo Garcia-Sanchez, *Designing and modeling a browser-based distributed evolutionary computation system*, GECCO 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft'15) (Madrid, Spain) (Stefan Wagner and Michael Affenzeller, eds.), ACM, 11-15 July 2015, pp. 1117–1124.
 - [132] Risto Miikkulainen, *Evolving neural networks*, GECCO 2015 Introductory Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 137–161.
 - [133] Julian Miller and Hajo Broersma, *Computational matter: Evolving computational solutions in materials*, GECCO 2015 Late-Breaking Abstracts (Madrid, Spain) (Dirk Sudholt, ed.), ACM, 11-15 July 2015, pp. 769–770.
 - [134] Julian Miller and Andrew Turner, *Cartesian genetic programming*, GECCO 2015 Introductory Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 179–198.
 - [135] Seyedali Mirjalili and Andrew Lewis, *A reliable and computationally cheap approach for finding robust optimal solutions*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Wiedera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1439–1440.
 - [136] Vladimir Mironovich and Maxim Buzdalov, *Hard test generation for maximum flow algorithms with the fast crossover-based evolutionary algorithm*, GECCO'15 Student Workshop (Madrid, Spain) (Tea Tusar and Boris Naujoks, eds.), ACM, 11-15 July 2015, pp. 1229–1232.
 - [137] Minami Miyakawa, Keiki Takadama, and Hiroyuki Sato, *Control of crossed genes ratio for directed mating in evolutionary constrained multi-objective optimization*, GECCO'15 Student Workshop (Madrid, Spain) (Tea Tusar and Boris Naujoks, eds.), ACM, 11-15 July 2015, pp. 1201–1204.

- [138] Alberto Moraglio and Krzysztof Krawiec, *Semantic genetic programming*, GECCO 2015 Advanced Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 603–627.
- [139] Samaneh Sadat Mousavi Astarabadi and Mohammad Mehdi Ebadzadeh, *Avoiding overfitting in symbolic regression using the first order derivative of gp trees*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Wiedera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1441–1442.
- [140] Vojtech Mrazek, Zdenek Vasicek, and Lukas Sekanina, *Evolutionary approximation of software for embedded systems: Median function*, Genetic Improvement 2015 Workshop (Madrid, Spain) (W. B. Langdon, David R. White, and Justyna Petke, eds.), ACM, 11-15 July 2015, pp. 795–801.
- [141] Zongxu Mu and Holger H. Hoos, *Empirical scaling analyser: An automated system for empirical analysis of performance scaling*, GECCO 2015 Late-Breaking Abstracts (Madrid, Spain) (Dirk Sudholt, ed.), ACM, 11-15 July 2015, pp. 771–772.
- [142] Robin Mueller-Bady, Ruediger Gad, Martin Kappes, and Inmaculada Medina-Bulo, *Using genetic algorithms for deadline-constrained monitor selection in dynamic computer networks*, SecDef'2015 - Workshop on genetic and evolutionary computation in defense, security and risk management (Madrid, Spain) (Frank W. Moore and Nur Zincir-Heywood, eds.), ACM, 11-15 July 2015, pp. 867–874.
- [143] Will n. Browne, *Back to the future: Learning classifier systems as cognitive systems*, GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems) (Madrid, Spain) (Karthik Kuber, Masaya Nakata, and Kamran Shafi, eds.), ACM, 11-15 July 2015, pp. 1037–1037.
- [144] Anis Najar, Olivier Sigaud, and Mohamed Chetouani, *Socially guided xcs: Using teaching signals to boost learning*, GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems) (Madrid, Spain) (Karthik Kuber, Masaya Nakata, and Kamran Shafi, eds.), ACM, 11-15 July 2015, pp. 1021–1028.
- [145] Antonio J. Nebro, Juan J. Durillo, and Matthieu Vergne, *Redesigning the jmetal multi-objective optimization framework*, GECCO 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft'15) (Madrid, Spain) (Stefan Wagner and Michael Affenzeller, eds.), ACM, 11-15 July 2015, pp. 1093–1100.
- [146] Frank Neumann and Andrew M. Sutton, *Parameterized complexity analysis of evolutionary algorithms*, GECCO 2015 Advanced Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 435–450.
- [147] Sune S. Nielsen, Gregoire Danoy, Pascal Bouvry, and El-Ghazali Talbi, *Nk landscape instances mimicking the protein inverse folding problem towards future benchmarks*, GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology (Madrid, Spain) (Jose Santos, Julia Handl, and Amarda Shehu, eds.), ACM, 11-15 July 2015, pp. 915–921.
- [148] Housseem Eddine Nouri, Olfa Belkahla Driss, and Khaled Ghedira, *Metaheuristics based on clustering in a holonic multiagent model for the flexible job shop problem*, GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems) (Madrid, Spain) (Karthik Kuber, Masaya Nakata, and Kamran Shafi, eds.), ACM, 11-15 July 2015, pp. 997–1004.

- [149] Ana-Maria Oprescu, Alexandra (Vintila) Filip, and Thilo Kielmann, *Fast pareto front approximation for cloud instance pool optimization*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1443–1444.
- [150] Una-May O'Reilly, *Genetic programming: A tutorial introduction*, GECCO 2015 Introductory Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 3–19.
- [151] Peter Overbury and Luc Berthouze, *Using novelty-biased ga to sample diversity in graphs satisfying constraints*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1445–1446.
- [152] Omer Ozkan, Murat Ermis, and Ilker Bekmezci, *A hybrid matheuristic approach for designing reliable wireless multimedia sensor networks*, SecDef'2015 - Workshop on genetic and evolutionary computation in defense, security and risk management (Madrid, Spain) (Frank W. Moore and Nur Zincir-Heywood, eds.), ACM, 11-15 July 2015, pp. 875–882.
- [153] Denis Pallez, Mathieu Serrurier, Celia da Costa Pereira, Giovanni Fusco, and Cristina Cao, *Social specialization of space: Clustering households on the french riviera*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1447–1448.
- [154] Joao Papa Papa, Gustavo Henrique Rosa, Kelton A. Costa, Nilceu A. Marana, Walter Scheirer, and David Daniel Cox, *On the model selection of bernoulli restricted boltzmann machines through harmony search*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1449–1450.
- [155] 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 (eds.), *Gecco companion '15: Proceedings of the companion publication of the 2015 on genetic and evolutionary computation conference*, Madrid, Spain, 11-15 July 2015.
- [156] John Park, Su Nguyen, Mengjie Zhang, and Mark Johnston, *A single population genetic programming based ensemble learning approach to job shop scheduling*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1451–1452.
- [157] Alina Patelli, Nelly Bencomo, Aniko Ekart, Harry Goldingay, and Peter Lewis, *Two-b or not two-b?: Design patterns for hybrid metaheuristics*, GECCO 2015 2nd Workshop on Metaheuristic Design Patterns (MetaDeeP'15) (Madrid, Spain) (Chris Simons, Jerry Swan, Krzysztof Krawiec, Daniel Tauritz, and Jim Smith, eds.), ACM, 11-15 July 2015, pp. 1269–1274.
- [158] Jose C. Pereira and Fernando G. Lobo, *Parameter-less evolutionary portfolio: First experiments*, GECCO 2015 Late-Breaking Abstracts (Madrid, Spain) (Dirk Sudholt, ed.), ACM, 11-15 July 2015, pp. 773–774.
- [159] Todd Perry and Mohamed Bader-El-Den, *Imbalanced classification using genetically optimized random forests*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1453–1454.
- [160] Irina Petrova and Arina Buzdalova, *Selection of auxiliary objectives in the travelling salesman problem using reinforcement learning*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1455–1456.
- [161] Stjepan Picek, Julian F. Miller, Domagoj Jakobovic, and Lejla Batina, *Cartesian genetic programming approach for generating substitution boxes of different sizes*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario

- Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1457–1458.
- [162] Petr Posik and Petr Baudis, *Dimension selection in axis-parallel brent-step method for black-box optimization of separable continuous functions*, Black Box Optimization Benchmarking (BBOB 2015) Workshop (Madrid, Spain) (Youhei Akimoto, Anne Auger, Dima Brockhoff, Nikolaus Hansen, Olaf Mersmann, and Petr Posik, eds.), ACM, 11-15 July 2015, pp. 1151–1158.
- [163] Mike Preuss, *Multimodal optimization*, GECCO 2015 Introductory Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 293–312.
- [164] Malte Probst, *Denoising autoencoders for fast combinatorial black box optimization*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1459–1460.
- [165] Pablo Rabanal, Ismael Rodriguez, and Fernando Rubio, *On the uselessness of finite benchmarks to assess evolutionary and swarm methods*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1461–1462.
- [166] Aurora Ramirez, Jose Raul Romero, and Sebastian Ventura, *An extensible jeclec-based solution for the implementation of multi-objective evolutionary algorithms*, GECCO 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft'15) (Madrid, Spain) (Stefan Wagner and Michael Affenzeller, eds.), ACM, 11-15 July 2015, pp. 1085–1092.
- [167] Cristian Ramirez-Atencia, Gema Bello-Orgaz, Maria D. R-Moreno, and David Camacho, *A hybrid moga-csp for multi-uav mission planning*, GECCO'15 Student Workshop (Madrid, Spain) (Tea Tusar and Boris Naujoks, eds.), ACM, 11-15 July 2015, pp. 1205–1208.
- [168] Alexander Raß, Manuel Schmitt, and Rolf Wanka, *Explanation of stagnation at points that are not local optima in particle swarm optimization by potential analysis*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1463–1464.

- [169] Maria-Cristina Riff and Elizabeth Montero, *A collaborative strategy to reduce initial setup requirements of paramils using evoca*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1467–1468.
- [170] Daniel Rivero, Enrique Fernandez-Blanco, Julian Dorado, and Alejandro Pazos, *Classification of two-channel signals by means of genetic programming*, GECCO 2015 Medical Applications of Genetic and Evolutionary Computation (MedGEC'15) Workshop (Madrid, Spain) (Stephen L. Smith, Stefano Cagnoni, and Robert M. Patton, eds.), ACM, 11-15 July 2015, pp. 1319–1325.
- [171] Nicolas Rojas, Elizabeth Montero, and Maria-Cristina Riff, *Using anti-pheromone to identify core objects for multidimensional knapsack problems: A two-step ants based approach*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1469–1470.
- [172] Franz Rothlauf, *Representations for evolutionary algorithms*, GECCO 2015 Introductory Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 345–366.
- [173] Andrew Runka and Tony White, *Evolving neurocontrollers for the control of information diffusion in social networks*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1471–1472.
- [174] George Rush, Daniel R. Tauritz, and Alexander D. Kent, *Coevolutionary agent-based network defense lightweight event system (candles)*, SecDef'2015 - Workshop on genetic and evolutionary computation in defense, security and risk management (Madrid, Spain) (Frank W. Moore and Nur Zincir-Heywood, eds.), ACM, 11-15 July 2015, pp. 859–866.
- [175] Patricia Ryser-Welch, Julian F. Miller, and Shahriar Asta, *Generating human-readable algorithms for the travelling salesman problem using hyper-heuristics*, GECCO 2015 5th Workshop on Evolutionary Computation for the Automated Design of Algorithms (ECADA'15) (Madrid, Spain) (John Woodward, Daniel Tauritz, and Manuel Lopez-Ibanez, eds.), ACM, 11-15 July 2015, pp. 1067–1074.
- [176] Patricia Ryser-Welch, Julian F. Miller, and Shariar Asta, *Evolutionary cross-domain hyper-heuristics*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I

- Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1473–1474.
- [177] Ahmed Salah and Emma Hart, *Grid diversity operator for some population-based optimization algorithms*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1475–1476.
- [178] Roberto Santana, Alexander Mendiburu, and Jose A. Lozano, *Multi-objective nm-landscapes*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1477–1478.
- [179] Valentino Santucci, Marco Baiocchi, and Alfredo Milani, *An algebraic differential evolution for the linear ordering problem*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1479–1480.
- [180] Emmanuel Sapin, Kenneth De Jong, and Amarda Shehu, *Mapping multiple minima in protein energy landscapes with evolutionary algorithms*, GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology (Madrid, Spain) (Jose Santos, Julia Handl, and Amarda Shehu, eds.), ACM, 11-15 July 2015, pp. 923–927.
- [181] Hiroyuki Sato, Minami Miyakawa, and Elizabeth Perez-Cortes, *A parallel moea/d generating solutions in minimum overlapped update ranges of solutions*, GECCO 2015 Late-Breaking Abstracts (Madrid, Spain) (Dirk Sudholt, ed.), ACM, 11-15 July 2015, pp. 775–776.
- [182] Andreas Scheibenpflug, Andreas Beham, Michael Kommenda, Johannes Karder, Stefan Wagner, and Michael Affenzeller, *Simplifying problem definitions in the heuristiclab optimization environment*, GECCO 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft'15) (Madrid, Spain) (Stefan Wagner and Michael Affenzeller, eds.), ACM, 11-15 July 2015, pp. 1101–1108.

- [183] Jonas Schmitt, Sabine Seufert, Christian Zoubek, and Harald Koestler, *Potential-field-based unit behavior optimization for balancing in starcraft ii*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1481–1482.
- [184] Eric M. Schulte, Westley Weimer, and Stephanie Forrest, *Repairing cots router firmware without access to source code or test suites: A case study in evolutionary software repair*, Genetic Improvement 2015 Workshop (Madrid, Spain) (W. B. Langdon, David R. White, and Justyna Petke, eds.), ACM, 11-15 July 2015, pp. 847–854.
- [185] Eric O. Scott and Jeffrey K. Bassett, *Learning genetic representations for classes of real-valued optimization problems*, GECCO 2015 5th Workshop on Evolutionary Computation for the Automated Design of Algorithms (ECADA'15) (Madrid, Spain) (John Woodward, Daniel Tauritz, and Manuel Lopez-Ibanez, eds.), ACM, 11-15 July 2015, pp. 1075–1082.
- [186] Eric O. Scott and Kenneth A. De Jong, *Evaluation-time bias in asynchronous evolutionary algorithms*, GECCO'15 Student Workshop (Madrid, Spain) (Tea Tusar and Boris Naujoks, eds.), ACM, 11-15 July 2015, pp. 1209–1212.
- [187] Amarda Shehu and Kenneth De Jong, *Evolutionary algorithms for protein structure modeling*, GECCO 2015 Advanced Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 533–545.
- [188] Gene Sher, *Momentum enhanced neuroevolution*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1483–1484.
- [189] Kevin Sim and Emma Hart, *A novel heuristic generator for jssp using a tree-based representation of dispatching rules*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1485–1486.
- [190] Stephen L. Smith, *Medical applications of evolutionary computation*, GECCO 2015 Specialized Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 651–679.
- [191] Alessandra M. Soares, Bruno J.T. Fernandes, and Carmelo J.A. Bastos-Filho, *Pyramidal neural networks with variable receptive fields designed by genetic algorithms*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation

- Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1487–1488.
- [192] Lee Spector, *Expressive genetic programming*, GECCO 2015 Advanced Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 409–434.
- [193] Kenneth O. Stanley, *Generative and developmental systems tutorial*, GECCO 2015 Advanced Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 503–532.
- [194] Thiago Muniz Stehling, Sergio Ricardo DE Souza, and Moacir F. De Franca Filho, *A hybrid particle swarm optimization for solving vehicle routing problem with time windows*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1489–1490.
- [195] Andreas Steyven, Emma Hart, and Ben Paechter, *The cost of communication: Environmental pressure and survivability in medea*, GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop (Madrid, Spain) (Abraham Prieto, Nicolas Bredeche, and Evert Haasdijk, eds.), ACM, 11-15 July 2015, pp. 1239–1240.
- [196] Catalin Stoean, Ruxandra Stoean, Adrian Sandita, Cristian Mesina, Corina Lavinia Gruia, and Daniela Ciobanu, *Evolutionary search for an accurate contour segmentation in histopathological images*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1491–1492.
- [197] Thomas Stuetzle and Manuel Lopez-Ibanez, *Automatic (offline) configuration of algorithms*, GECCO 2015 Specialized Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 681–702.
- [198] Dirk Sudholt, *Theory of swarm intelligence*, GECCO 2015 Advanced Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 451–471.
- [199] Yuan Sun, Michael Kirley, and Saman Kumara Halgamuge, *On the selection of decomposition methods for large scale fully non-separable problems*, GECCO'15 Student Workshop (Madrid, Spain) (Tea Tusar and Boris Naujoks, eds.), ACM, 11-15 July 2015, pp. 1213–1216.
- [200] Gizem Sungu and Betul Boz, *An evolutionary algorithm for weighted graph coloring problem*, GECCO'15 Student Workshop (Madrid, Spain) (Tea Tusar and Boris Naujoks, eds.), ACM, 11-15 July 2015, pp. 1233–1236.

- [201] Keiki Takadama, *A potential of evolutionary rule-based machine learning for real world applications*, GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems) (Madrid, Spain) (Karthik Kuber, Masaya Nakata, and Kamran Shafi, eds.), ACM, 11-15 July 2015, pp. 1039–1040.
- [202] Ryoji Tanabe, *A note on multi-funnel functions for expensive optimization scenario*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1493–1494.
- [203] Dirk Thierens and Peter A.N. Bosman, *Model-based evolutionary algorithms*, GECCO 2015 Introductory Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 93–120.
- [204] Marco Tomassini, *Introduction to complex networks*, GECCO 2015 Introductory Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 163–178.
- [205] Pedro Trueba, Abraham Prieto, Francisco Bellas, and Richard J. Duro, *Embodied evolution for collective indoor surveillance and location*, GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop (Madrid, Spain) (Abraham Prieto, Nicolas Bredeche, and Evert Haasdijk, eds.), ACM, 11-15 July 2015, pp. 1241–1242.
- [206] Giuseppe A. Trunfio, *An effective approach for adapting the size of subcomponents in large-scale optimization with cooperative coevolution*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1495–1496.
- [207] Wilburn W.P. Tsang and Henry Y.K. Lau, *A grid-facilitated ais-based network scheme for many-objective optimization*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1497–1498.
- [208] Shigeyoshi Tsutsui and Noriyuki Fujimoto, *A comparative study of synchronization of parallel aco on multi-core processor*, GECCO 2015 Late-Breaking Abstracts (Madrid, Spain) (Dirk Sudholt, ed.), ACM, 11-15 July 2015, pp. 777–778.
- [209] Andrew James Turner and Julian Francis Miller, *Recurrent cartesian genetic programming applied to series forecasting*, GECCO Companion '15: Proceedings of the Companion Publication of

- the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Jacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1499–1500.
- [210] Roberto Ugolotti and Stefano Cagnoni, *Automatic tuning of standard pso versions*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Jacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1501–1502.
 - [211] Ryan Urbanowicz and Will Browne, *Introducing rule-based machine learning: A practical guide*, GECCO 2015 Introductory Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 263–292.
 - [212] Ryan Urbanowicz, Niranjana Ramanand, and Jason Moore, *Continuous endpoint data mining with extracts: A supervised learning classifier system*, GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems) (Madrid, Spain) (Karthik Kuber, Masaya Nakata, and Kamran Shafi, eds.), ACM, 11-15 July 2015, pp. 1029–1036.
 - [213] Neil B. Urquhart, Emma Hart, and Alistair Judson, *Multi-modal employee routing with time windows in an urban environment*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Jacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1503–1504.
 - [214] Daniel Varela and Jose Santos, *Combination of differential evolution and fragment-based replacements for protein structure prediction*, GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology (Madrid, Spain) (Jose Santos, Julia Handl, and Amarda Shehu, eds.), ACM, 11-15 July 2015, pp. 911–914.
 - [215] Danilo Vasconcellos Vargas, Hirotaka Takano, and Junichi Murata, *The relationship between (un)fractured problems and division of input space*, GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems) (Madrid, Spain) (Karthik Kuber, Masaya Nakata, and Kamran Shafi, eds.), ACM, 11-15 July 2015, pp. 981–987.
 - [216] Zdenek Vasicek and Lukas Sekanina, *Evolutionary approximation of complex digital circuits*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Jacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco

- Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1505–1506.
- [217] J. Manuel Velasco, Stephan Winkler, J. Ignacio Hidalgo, Oscar Garnica, Juan Lanchares, J. Manuel Colmenar, Esther Maqueda, Marta Botella, and Jose-Antonio Rubio, *Data-based identification of prediction models for glucose*, GECCO 2015 Medical Applications of Genetic and Evolutionary Computation (MedGEC'15) Workshop (Madrid, Spain) (Stephen L. Smith, Stefano Cagnoni, and Robert M. Patton, eds.), ACM, 11-15 July 2015, pp. 1327–1334.
- [218] Phillip Verbanics, *Impact of speciation heuristic on crossover and search in neat*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1509–1510.
- [219] Phillip Verbanics and Josh Harguess, *Classifying maritime vessels from satellite imagery with hyperneat*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1507–1508.
- [220] Christian von Lueken, Hugo Monzon, Carlos Brizuela, and Benjamin Baran, *Dimensionality reduction in many-objective problems combining pca and spectral clustering*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1511–1512.
- [221] Mark D. Wagdy and Josh C. Bongard, *Crowdseeding robot design*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano

- Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1513–1514.
- [222] David J. Walker, *Visualising multi-objective populations with treemaps*, 6th Workshop on Visualisation Methods in Genetic and Evolutionary Computation (VizGEC 2015) (Madrid, Spain) (David Walker, Richard Everson, and Jonathan Fieldsend, eds.), ACM, 11-15 July 2015, pp. 963–970.
- [223] Chris Watkins and Yvonne Buttkewitz, *Efficient sampling with small populations: a genetic algorithm satisfying detailed balance*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1517–1518.
- [224] Miri Weiss Cohen, Adi Dahan, and Izzik Kaspi, *Software system for container vessel stowage planning using genetic algorithm*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1519–1520.
- [225] David R. White and Jeremy Singer, *Rethinking genetic improvement programming*, Genetic Improvement 2015 Workshop (Madrid, Spain) (W. B. Langdon, David R. White, and Justyna Petke, eds.), ACM, 11-15 July 2015, pp. 845–846.
- [226] David R. White, Shin Yoo, and Jeremy Singer, *The programming game: Evaluating mcts as an alternative to gp for symbolic regression*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1521–1522.
- [227] Darrell Whitley, *Blind no more: Constant time non-random improving moves and exponentially powerful recombination*, GECCO 2015 Advanced Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 391–407.
- [228] John R. Woodward and Daniel R. Tauritz, *Hyper-heuristics*, GECCO 2015 Introductory Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 199–230.
- [229] Yao-Ming Wu, Liang-Yu Chen, Po-Ming Lee, and Tzu-Chien Hsiao, *Enable the xcs to dynamically learn multiple problems: A sensor tagging approach*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim,

- Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Wiedera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1523–1524.
- [230] Jing Xie, Yi Mei, and Andy Song, *Evolving self-adaptive tabu search algorithm for storage location assignment problems*, GECCO 2015 Late-Breaking Abstracts (Madrid, Spain) (Dirk Sudholt, ed.), ACM, 11-15 July 2015, pp. 779–780.
- [231] Shengxiang Yang, *Evolutionary computation for dynamic optimization problems*, GECCO 2015 Advanced Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 629–649.
- [232] Kwaku Yeboah-Antwi and Benoit Baudry, *Embedding adaptivity in software systems using the ecselr framework*, Genetic Improvement 2015 Workshop (Madrid, Spain) (W. B. Langdon, David R. White, and Justyna Petke, eds.), ACM, 11-15 July 2015, pp. 839–844.
- [233] Logan Yliniemi and Kagan Tumer, *Complete multi-objective coverage with paccet*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Wiedera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1525–1526.
- [234] Payam Zahadat, Heiko Hamann, and Thomas Schmickl, *Evolving diverse collective behaviors independent of swarm density*, GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop (Madrid, Spain) (Abraham Prieto, Nicolas Bredeche, and Evert Haasdijk, eds.), ACM, 11-15 July 2015, pp. 1245–1246.
- [235] Jan Zegklitz and Petr Posik, *Model selection and overfitting in genetic programming: Empirical study*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Wiedera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1527–1528.
- [236] ———, *Symbolic regression by grammar-based multi-gene genetic programming*, GECCO'15 Student Workshop (Madrid, Spain) (Tea Tusar and Boris Naujoks, eds.), ACM, 11-15 July 2015, pp. 1217–1220.
- [237] Mengjie Zhang and Stefano Cagnoni, *Evolutionary image analysis, signal processing and pattern recognition*, GECCO 2015 Advanced Tutorials (Madrid, Spain) (Anabela Simoes, ed.), ACM, 11-15 July 2015, pp. 473–502.
- [238] Mingan Zhang and Yong Deng, *An improved artificial fish swarm algorithm in image segmentation application*, GECCO 2015 Late-Breaking Abstracts (Madrid, Spain) (Dirk Sudholt, ed.), ACM, 11-15 July 2015, pp. 781–782.

- [239] Jinhua Zheng, Hui Bai, Ruimin Shen, and Miqing Li, *A comparative study use of otl for many-objective optimization*, GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference (Madrid, Spain) (Sara Silva, Anna I Esparcia-Alcazar, Manuel Lopez-Ibanez, Sanaz Mostaghim, Jon Timmis, Christine Zarges, Luis Correia, Terrence Soule, Mario Giacobini, Ryan Urbanowicz, Youhei Akimoto, Tobias Glasmachers, Francisco Fernandez de Vega, Amy Hoover, Pedro Larranaga, Marta Soto, Carlos Cotta, Francisco B. Pereira, Julia Handl, Jan Koutnik, Antonio Gaspar-Cunha, Heike Trautmann, Jean-Baptiste Mouret, Sebastian Risi, Ernesto Costa, Oliver Schuetze, Krzysztof Krawiec, Alberto Moraglio, Julian F. Miller, Pawel Widera, Stefano Cagnoni, JJ Merelo, Emma Hart, Leonardo Trujillo, Marouane Keswsentini, Gabriela Ochoa, Francisco Chicano, and Carola Doerr, eds.), ACM, 11-15 July 2015, pp. 1411–1412.