

Список литературы

- [Akimoto and Auger, 2015] Akimoto, Y. and Auger, A. (2015). "Theory of Evolution Strategies and Related Algorithms". In Simoes, A., editor, *GECCO 2015 Advanced Tutorials*, pages 575–588, Madrid, Spain. ACM.
- [Akimoto et al., 2015] Akimoto, Y.; Auger, A.; and Hansen, N. (2015). "Continuous Optimization and CMA-ES". In Simoes, A., editor, *GECCO 2015 Introductory Tutorials*, pages 313–344, Madrid, Spain. ACM.
- [Alba, 2015] Alba, E. (2015). "Intelligent Systems for Smart Cities". In Simoes, A., editor, *GECCO 2015 Specialized Tutorials*, pages 707–722, Madrid, Spain. ACM.
- [Aljawawdeh et al., 2015] Aljawawdeh, H. J.; Simons, C. L.; and Odeh, M. (2015). "Metaheuristic Design Pattern: Preference". In Simons, C.; Swan, J.; Krawiec, K.; Tauritz, D.; and Smith, J., editors, *GECCO 2015 2nd Workshop on Metaheuristic Design Patterns (MetaDeeP'15)*, pages 1257–1260, Madrid, Spain. ACM.
- [Altin et al., 2015] Altin, L.; Topcuoglu, H. R.; and Ermis, M. (2015). "Evolutionary Dynamic Optimization Techniques for Marine Contamination Problem". In Moore, F. W. and Zincir-Heywood, N., editors, *SecDef'2015 - Workshop on genetic and evolutionary computation in defense, security and risk management*, pages 889–892, Madrid, Spain. ACM.
- [Alyahya and Rowe, 2015] Alyahya, K. and Rowe, J. E. (2015). "Landscape Properties of the 0-1 Knapsack Problem". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1343–1344, Madrid, Spain. ACM.
- [Ameca-Alducin et al., 2015] Ameca-Alducin, M.-Y.; Mezura-Montes, E.; and Cruz-Ramirez, N. (2015). "Differential Evolution with a Repair Method to Solve Dynamic Constrained Optimization Problems". In Tusar, T. and Naujoks, B., editors, *GECCO'15 Student Workshop*, pages 1169–1172, Madrid, Spain. ACM.
- [Araujo et al., 2015] Araujo, L.; Martinez-Romo, J.; and Duque, A. (2015). "Grammatical Evolution for Identifying Wikipedia Taxonomies". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1345–1346, Madrid, Spain. ACM.
- [Astete-Morales et al., 2015] Astete-Morales, S.; Cauwet, M.-L.; and Teytaud, O. (2015). "Criteria and Convergence Rates in Noisy Optimization". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1347–1348, Madrid, Spain. ACM.
- [Atamna, 2015] Atamna, A. (2015). "Benchmarking IPOP-CMA-ES-TPA and IPOP-CMA-ES-MSR on the BBOB Noiseless Testbed". In Akimoto, Y.; Auger, A.; Brockhoff, D.; Hansen, N.; Mersmann,

- O.; and Posik, P., editors, *Black Box Optimization Benchmarking (BBOB 2015) Workshop*, pages 1135–1142, Madrid, Spain. ACM.
- [Atilgan and Hu, 2015] Atilgan, E. and Hu, J. (2015). "A Combinatorial Genetic Algorithm for Computational Doping based Material Design". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1349–1350, Madrid, Spain. ACM.
- [Auerbach et al., 2015] Auerbach, J. E.; Heitz, G.; Kornatowski, P. M.; and Floreano, D. (2015). "Rapid Evolution of Robot Gaits". In Sudholt, D., editor, *GECCO 2015 Late-Breaking Abstracts*, pages 743–744, Madrid, Spain. ACM.
- [Ayodele et al., 2015] Ayodele, M.; McCall, J.; and Regnier-Coudert, O. (2015). "Probabilistic Model Enhanced Genetic Algorithm for Multi-Mode Resource Constrained Project Scheduling Problem". In Sudholt, D., editor, *GECCO 2015 Late-Breaking Abstracts*, pages 745–746, Madrid, Spain. ACM.
- [Bajer et al., 2015a] Bajer, L.; Pitra, Z.; and Holena, M. (2015a). "Benchmarking Gaussian Processes and Random Forests Surrogate Models on the BBOB Noiseless Testbed". In Akimoto, Y.; Auger, A.; Brockhoff, D.; Hansen, N.; Mersmann, O.; and Posik, P., editors, *Black Box Optimization Benchmarking (BBOB 2015) Workshop*, pages 1143–1150, Madrid, Spain. ACM.
- [Bajer et al., 2015b] Bajer, L.; Pitra, Z.; and Holena, M. (2015b). "Investigation of Gaussian Processes and Random Forests as Surrogate Models for Evolutionary Black-Box Optimization". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1351–1352, Madrid, Spain. ACM.
- [Baldominos et al., 2015] Baldominos, A.; Saez, Y.; and Isasi, P. (2015). "Feature Set Optimization for Physical Activity Recognition Using Genetic Algorithms". In Smith, S. L.; Cagnoni, S.; and Patton, R. M., editors, *GECCO 2015 Medical Applications of Genetic and Evolutionary Computation (MedGEC'15) Workshop*, pages 1311–1318, Madrid, Spain. ACM.
- [Bankovic and Lopez-Garcia, 2015] Bankovic, Z. and Lopez-Garcia, P. (2015). "Energy Efficient Allocation and Scheduling for DVFS-enabled Multicore Environments using a Multiobjective Evolutionary Algorithm". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1353–1354, Madrid, Spain. ACM.
- [Benbassat and Henik, 2015] Benbassat, A. and Henik, A. (2015). "Examining The Stroop Effect using A Develomental Spatial Neuroevolution System". In Sudholt, D., editor, *GECCO 2015 Late-Breaking Abstracts*, pages 747–748, Madrid, Spain. ACM.
- [Berger et al., 2015] Berger, B.; Andino, A.; Danise, A.; and Rieffel, J. (2015). "Growing and Evolving Vibrationally Actuated Soft Robots". In Tusar, T. and Naujoks, B., editors, *GECCO'15 Student Workshop*, pages 1221–1224, Madrid, Spain. ACM.

- [Bernatskiy and Bongard, 2015] Bernatskiy, A. and Bongard, J. C. (2015). "Exploiting the Relationship Between Structural Modularity and Sparsity for Faster Network Evolution". In Tusar, T. and Naujoks, B., editors, *GECCO'15 Student Workshop*, pages 1173–1176, Madrid, Spain. ACM.
- [Berny, 2015] Berny, A. (2015). "Herding Evolutionary Algorithm". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1355–1356, Madrid, Spain. ACM.
- [bin Wang et al., 2015] bin Wang, J.; Chen, W.-N.; Zhang, J.; and Lin, Y. (2015). "A Dimension-Reducing Particle Swarm Optimization Method for Portfolio Optimization". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1515–1516, Madrid, Spain. ACM.
- [Bokhari and Wagner, 2015] Bokhari, M. and Wagner, M. (2015). "Improving Test Coverage of Formal Verification Systems via Beam Search". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1357–1358, Madrid, Spain. ACM.
- [Boussaa et al., 2015] Boussaa, M.; Barais, O.; Sunye, G.; and Baudry, B. (2015). "A Novelty Search-based Test Data Generator for Object-oriented Programs". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1359–1360, Madrid, Spain. ACM.
- [Bozdogan et al., 2015] Bozdogan, C.; Gokcen, Y.; and Zincir, I. (2015). "A Preliminary Investigation on the Identification of Peer to Peer Network Applications". In Moore, F. W. and Zincir-Heywood, N., editors, *SecDef'2015 - Workshop on genetic and evolutionary computation in defense, security and risk management*, pages 883–888, Madrid, Spain. ACM.
- [Bredeche et al., 2015a] Bredeche, N.; Doncieux, S.; and Mouret, J.-B. (2015a). "Tutorial on Evolutionary Robotics". In Simoes, A., editor, *GECCO 2015 Introductory Tutorials*, pages 231–261, Madrid, Spain. ACM.
- [Bredeche et al., 2015b] Bredeche, N.; Haasdijk, E.; and Prieto, A. (2015b). "Elements of Embodied Evolutionary Robotics". In Prieto, A.; Bredeche, N.; and Haasdijk, E., editors, *GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop*, pages 1247–1247, Madrid, Spain. ACM.
- [Brizuela et al., 2015] Brizuela, C.; Corona, R. I.; Lezcano, C.; Rodriguez, D.; and Colbes, J. D. (2015). "An Experimental Analysis of the Performance of SideChain Packing Algorithms". In Santos,

- J.; Handl, J.; and Shehu, A., editors, *GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology*, pages 929–933, Madrid, Spain. ACM.
- [Brockhoff et al., 2015] Brockhoff, D.; Bischl, B.; and Wagner, T. (2015). "The Impact of Initial Designs on the Performance of MATSuMoTo on the Noiseless BBOB-2015 Testbed: A Preliminary Study". In Akimoto, Y.; Auger, A.; Brockhoff, D.; Hansen, N.; Mersmann, O.; and Posik, P., editors, *Black Box Optimization Benchmarking (BBOB 2015) Workshop*, pages 1159–1166, Madrid, Spain. ACM.
- [Brockhoff and Wagner, 2015] Brockhoff, D. and Wagner, T. (2015). "Tutorial on Evolutionary Multiobjective Optimization". In Simoes, A., editor, *GECCO 2015 Introductory Tutorials*, pages 37–63, Madrid, Spain. ACM.
- [Brookhouse and Otero, 2015] Brookhouse, J. and Otero, F. E. (2015). "Discovering Regression Rules with Ant Colony Optimization". In Kuber, K.; Nakata, M.; and Shafi, K., editors, *GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems)*, pages 1005–1012, Madrid, Spain. ACM.
- [Brownlee et al., 2015] Brownlee, A. E.; Woodward, J. R.; and Swan, J. (2015). "Metaheuristic Design Pattern: Surrogate Fitness Functions". In Simons, C.; Swan, J.; Krawiec, K.; Tauritz, D.; and Smith, J., editors, *GECCO 2015 2nd Workshop on Metaheuristic Design Patterns (MetaDeeP'15)*, pages 1261–1264, Madrid, Spain. ACM.
- [Bruce, 2015] Bruce, B. R. (2015). "Energy Optimisation via Genetic Improvement: A SBSE technique for a new era in Software Development". In Langdon, W. B.; White, D. R.; and Petke, J., editors, *Genetic Improvement 2015 Workshop*, pages 819–820, Madrid, Spain. ACM.
- [Burles et al., 2015] Burles, N.; Swan, J.; Bowles, E.; Brownlee, A. E.; Kocsis, Z. A.; and Veerapen, N. (2015). "Embedded Dynamic Improvement". In Langdon, W. B.; White, D. R.; and Petke, J., editors, *Genetic Improvement 2015 Workshop*, pages 831–832, Madrid, Spain. ACM.
- [Buzdalov and Parfenov, 2015] Buzdalov, M. and Parfenov, V. (2015). "Various Degrees of Steadiness in NSGA-II and Their Influence on the Quality of Results". In Sudholt, D., editor, *GECCO 2015 Late-Breaking Abstracts*, pages 749–750, Madrid, Spain. ACM.
- [Buzdalova et al., 2015] Buzdalova, A.; Matveeva, A.; and Korneev, G. (2015). "Selection of Auxiliary Objectives with Multi-Objective Reinforcement Learning". In Tusar, T. and Naujoks, B., editors, *GECCO'15 Student Workshop*, pages 1177–1180, Madrid, Spain. ACM.
- [Cabassi and Locatelli, 2015] Cabassi, F. and Locatelli, M. (2015). "A Computational Comparison of Memetic Differential Evolution Approaches". In Tusar, T. and Naujoks, B., editors, *GECCO'15 Student Workshop*, pages 1181–1184, Madrid, Spain. ACM.
- [Cantoro et al., 2015] Cantoro, R.; Gaudesi, M.; Sanchez, E.; and Squillero, G. (2015). "Exploiting Evolutionary Computation in an Industrial Flow for the Development of Code-Optimized Microprocessor Test Programs". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1465–1466, Madrid, Spain. ACM.
- [Cardenas-Montes et al., 2015] Cardenas-Montes, M.; Vega-Rodriguez, M. A.; Rodriguez-Vazquez, J. J.; and Gomez-Iglesias, A. (2015). "A Comparison Exercise on Parallel Evaluation of Rosenbrock Function". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini,

- M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1361–1362, Madrid, Spain. ACM.
- [Chaabani et al., 2015] Chaabani, A.; Bechikh, S.; Ben Said, L.; and Azzouz, R. (2015). "An Improved Co-evolutionary Decomposition-based Algorithm for Bi-level Combinatorial Optimization". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1363–1364, Madrid, Spain. ACM.
- [Chabin et al., 2015] Chabin, T.; Tonda, A.; and Lutton, E. (2015). "Is Global Sensitivity Analysis Useful to Evolutionary Computation?". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1365–1366, Madrid, Spain. ACM.
- [Chebbi and Chaouachi, 2015] Chebbi, O. and Chaouachi, J. (2015). "Evolutionary Approach For Minimizing Consumed Energy In a Personal Rapid Transit Transportation System with a Multi-Depot Network Topology: Minimizing Consumed Energy In a PRT System with a Multi-Depot Network Topology". In Sudholt, D., editor, *GECCO 2015 Late-Breaking Abstracts*, pages 751–752, Madrid, Spain. ACM.
- [Chen et al., 2015a] Chen, L.-Y.; Lee, P.-M.; and Hsiao, T.-C. (2015a). "Dynamically Adding Sensors to the XCS in Multistep Problems: A Sensor Tagging Approach". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1367–1368, Madrid, Spain. ACM.
- [Chen et al., 2015b] Chen, L.-Y.; Lee, P.-M.; and Hsiao, T.-C. (2015b). "A Novel Representation of Classifier Conditions Named Sensory Tag for the XCS in Multistep Problems". In Kuber, K.; Nakata, M.; and Shafi, K., editors, *GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems)*, pages 973–980, Madrid, Spain. ACM.
- [Chennupati et al., 2015a] Chennupati, G.; Azad, R. M. A.; and Ryan, C. (2015a). "On the Automatic Generation of Efficient Parallel Iterative Sorting Algorithms". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1369–1370, Madrid, Spain. ACM.
- [Chennupati et al., 2015b] Chennupati, G.; Azad, R. M. A.; and Ryan, C. (2015b). "Synthesis of Parallel Iterative Sorts with Multi-Core Grammatical Evolution". In Woodward, J.; Tauritz, D.; and Lopez-Ibanez, M., editors, *GECCO 2015 5th Workshop on Evolutionary Computation for the Automated Design of Algorithms (ECADA'15)*, pages 1059–1066, Madrid, Spain. ACM.

- [Chivilikhin et al., 2015] Chivilikhin, D.; Ivanov, I.; and Shalyto, A. (2015). "Inferring Temporal Properties of Finite-State Machine Models with Genetic Programming". In Tusar, T. and Naujoks, B., editors, *GECCO'15 Student Workshop*, pages 1185–1188, Madrid, Spain. ACM.
- [Christmas, 2015] Christmas, J. (2015). "Genetic C Programming with Probabilistic Evaluation". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1371–1372, Madrid, Spain. ACM.
- [Cody-Kenny et al., 2015] Cody-Kenny, B.; Galvan-Lopez, E.; and Barrett, S. (2015). "locoGP: Improving Performance by Genetic Programming Java Source Code". In Langdon, W. B.; White, D. R.; and Petke, J., editors, *Genetic Improvement 2015 Workshop*, pages 811–818, Madrid, Spain. ACM.
- [Coello Coello, 2015] Coello Coello, C. A. (2015). "Constraint-Handling Techniques used with Evolutionary Algorithms". In Simoes, A., editor, *GECCO 2015 Advanced Tutorials*, pages 367–389, Madrid, Spain. ACM.
- [Cruz et al., 2015] Cruz, A.; Machado, P.; Assuncao, F.; and Leitao, A. (2015). "ELICIT: Evolutionary Computation Visualization". In Walker, D.; Everson, R.; and Fieldsend, J., editors, *6th Workshop on Visualisation Methods in Genetic and Evolutionary Computation (VizGEC 2015)*, pages 949–956, Madrid, Spain. ACM.
- [Cussat-Blanc and Banzhaf, 2015] Cussat-Blanc, S. and Banzhaf, W. (2015). "Introduction to Gene Regulatory Networks". In Simoes, A., editor, *GECCO 2015 Advanced Tutorials*, pages 589–601, Madrid, Spain. ACM.
- [Cutillas-Lozano et al., 2015] Cutillas-Lozano, J.-M.; Franco, M.-A.; and Gimenez, D. (2015). "Comparing Variable Width Backtracking and Metaheuristics, Experiments with the Maximum Diversity Problem". In Sudholt, D., editor, *GECCO 2015 Late-Breaking Abstracts*, pages 753–754, Madrid, Spain. ACM.
- [Davila, 2015] Davila, J. J. (2015). "An Empirical Comparison of Genetically Evolved Programs and Evolved Neural Networks for Multi-agent Systems Operating under Dynamic Environments". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1373–1374, Madrid, Spain. ACM.
- [de Bokx et al., 2015] de Bokx, R.; Thierens, D.; and Bosman, P. A. (2015). "In Search of Optimal Linkage Trees". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1375–1376, Madrid, Spain. ACM.
- [De Jong, 2015] De Jong, K. A. (2015). "Evolutionary Computation: A Unified Approach". In Simoes, A., editor, *GECCO 2015 Introductory Tutorials*, pages 21–35, Madrid, Spain. ACM.

- [de las Cuevas Delgado et al., 2015] de las Cuevas Delgado, P.; Merelo, J. J.; and Garcia Sanchez, P. (2015). "Soft Computing Techniques Applied to Corporate and Personal Security". In Tusar, T. and Naujoks, B., editors, *GECCO'15 Student Workshop*, pages 1193–1196, Madrid, Spain. ACM.
- [Decock et al., 2015] Decock, J.; Liu, J.; and Tetaud, O. (2015). "Variance Reduction in Population-Based Optimization: Application to Unit Commitment". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1377–1378, Madrid, Spain. ACM.
- [Decroos et al., 2015] Decroos, T.; De Causmaecker, P.; and Demoen, B. (2015). "Solving Euclidean Steiner Tree Problems with Multi Swarm Optimization". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1379–1380, Madrid, Spain. ACM.
- [Degroote and De Causmaecker, 2015] Degroote, H. and De Causmaecker, P. (2015). "Towards a Knowledge Base for Performance Data: A Formal Model for Performance Comparison". In Tusar, T. and Naujoks, B., editors, *GECCO'15 Student Workshop*, pages 1189–1192, Madrid, Spain. ACM.
- [DeVautl et al., 2015] DeVautl, T.; Forrest, S.; Tanimoto, I.; Soule, T.; and Heckendorn, R. (2015). "Learning from Demonstration for Distributed, Encapsulated Evolution of Autonomous Outdoor Robots". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1381–1382, Madrid, Spain. ACM.
- [Diaz Alvarez et al., 2015] Diaz Alvarez, J.; Colmenar, J. M.; Risco-Martin, J. L.; Lanchares, J.; and Garnica, O. (2015). "Optimizing Performance of L1 Cache Memory for Embedded Systems driven by Differential Evolution". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1383–1384, Madrid, Spain. ACM.
- [Dorfer et al., 2015] Dorfer, V.; Maltsev, S.; Dreiseitl, S.; Mechtler, K.; and Winkler, S. M. (2015). "A Symbolic Regression Based Scoring System Improving Peptide Identifications for MS Amanda". In Smith, S. L.; Cagnoni, S.; and Patton, R. M., editors, *GECCO 2015 Medical Applications of Genetic and Evolutionary Computation (MedGEC'15) Workshop*, pages 1335–1341, Madrid, Spain. ACM.
- [Drugan, 2015] Drugan, M. M. (2015). "Synergies between Evolutionary Algorithms and Reinforcement Learning". In Simoes, A., editor, *GECCO 2015 Specialized Tutorials*, pages 723–740, Madrid, Spain. ACM.

- [Du et al., 2015] Du, X.; Ni, Y.; and Ye, P. (2015). "A Multi-objective Evolutionary Algorithm for Rule-based Performance Optimization at Software Architecture Level". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1385–1386, Madrid, Spain. ACM.
- [Engelbrecht, 2015] Engelbrecht, A. (2015). "Particle Swarm Optimization". In Simoes, A., editor, *GECCO 2015 Introductory Tutorials*, pages 65–91, Madrid, Spain. ACM.
- [Fatnassi and Chaouachi, 2015] Fatnassi, E. and Chaouachi, J. (2015). "Design and Development of a Genetic Algorithm for the Distance Constrained Vehicle Routing Problem with Environmental Issues: Genetic Algorithm for the Green Distance Constrained Vehicle Routing Problem". In Sudholt, D., editor, *GECCO 2015 Late-Breaking Abstracts*, pages 755–756, Madrid, Spain. ACM.
- [Fernandez et al., 2015] Fernandez, S.; Alvarez, S.; Malatsetxebarria, E.; Valledor, P.; and Diaz, D. (2015). "Performance Comparison of Ant Colony Algorithms for the Scheduling of Steel Production Lines". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1387–1388, Madrid, Spain. ACM.
- [Ffrancon and Schoenauer, 2015] Ffrancon, R. and Schoenauer, M. (2015). "Greedy Semantic Local Search for Small Solutions". In Johnson, C.; Krawiec, K.; Moraglio, A.; and O'Neill, M., editors, *GECCO 2015 Semantic Methods in Genetic Programming (SMGP'15) Workshop*, pages 1293–1300, Madrid, Spain. ACM.
- [Filipiak et al., 2015] Filipiak, P.; Michalak, K.; and Lipinski, P. (2015). "Infeasibility Driven Evolutionary Algorithm with the Anticipation Mechanism for the Reaching Goal in Dynamic Constrained Inverse Kinematics". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1389–1390, Madrid, Spain. ACM.
- [Forstenlechner et al., 2015] Forstenlechner, S.; Nicolau, M.; Fagan, D.; and O'Neill, M. (2015). "Introducing Semantic-Clustering Selection in Grammatical Evolution". In Johnson, C.; Krawiec, K.; Moraglio, A.; and O'Neill, M., editors, *GECCO 2015 Semantic Methods in Genetic Programming (SMGP'15) Workshop*, pages 1277–1284, Madrid, Spain. ACM.
- [Freitas et al., 2015] Freitas, J. S.; Garrozi, C.; and Valenca, M. (2015). "Insertion of Artificial Individuals to Increase the Diversity of Multiobjective Evolutionary Algorithms". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1391–1392, Madrid, Spain. ACM.

- [Gabler et al., 2015] Gabler, A.; Colby, M.; and Tumer, K. (2015). "Learning Based Control of a Fuel Cell Turbine Hybrid Power System". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1393–1394, Madrid, Spain. ACM.
- [Gaier, 2015] Gaier, A. (2015). "Evolutionary Design via Indirect Encoding of Non-Uniform Rational Basis Splines". In Tutar, T. and Naujoks, B., editors, *GECCO'15 Student Workshop*, pages 1197–1200, Madrid, Spain. ACM.
- [Gao et al., 2015] Gao, W.; Pourhassan, M.; and Neumann, F. (2015). "Runtime Analysis of Evolutionary Diversity Optimization and the Vertex Cover Problem". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1395–1396, Madrid, Spain. ACM.
- [Garza-Fabre et al., 2015] Garza-Fabre, M.; Kandathil, S. M.; Handl, J.; Knowles, J. D.; and Lovell, S. C. (2015). "Using Machine Learning to Explore the Relevance of Local and Global Features During Conformational Search in Rosetta". In Santos, J.; Handl, J.; and Shehu, A., editors, *GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology*, pages 935–938, Madrid, Spain. ACM.
- [Garzon-Rodriguez et al., 2015] Garzon-Rodriguez, L. P.; Diosa, H. A.; and Rojas-Galeano, S. (2015). "Deconstructing GAs into Visual Software Components". In Wagner, S. and Affenzeller, M., editors, *GECCO 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft'15)*, pages 1125–1132, Madrid, Spain. ACM.
- [Gaudesi et al., 2015] Gaudesi, M.; Marcelli, A.; Sanchez, E.; Squillero, G.; and Tonda, A. (2015). "Malware Obfuscation through Evolutionary Packers". In Sudholt, D., editor, *GECCO 2015 Late-Breaking Abstracts*, pages 757–758, Madrid, Spain. ACM.
- [Ghassemi Toosi et al., 2015] Ghassemi Toosi, F.; Nikolov, N. S.; and Eaton, M. (2015). "Evolving Smart Initial Layouts for Force-Directed Graph Drawing". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1397–1398, Madrid, Spain. ACM.
- [Golemo et al., 2015] Golemo, F.; Markovic, M.; Schoormans, J.; De Jonge, P.; Couwenberg, M.; and Haasdijk, E. (2015). "Simulating Morphological Evolution in Large Robot Populations". In Prieto, A.; Bredeche, N.; and Haasdijk, E., editors, *GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop*, pages 1249–1250, Madrid, Spain. ACM.
- [Gomes et al., 2015] Gomes, J.; Mariano, P.; and Christensen, A. L. (2015). "Hyb-CCEA: Cooperative Coevolution of Hybrid Teams". In Prieto, A.; Bredeche, N.; and Haasdijk, E., editors, *GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop*, pages 1251–1252, Madrid, Spain. ACM.

- [Gorji Sefidmazgi et al., 2015] Gorji Sefidmazgi, M.; Moradi Kordmahalleh, M.; and Homaifar, A. (2015). "Identification of Switched Models in Non-Stationary Time Series based on Coordinate-Descent and Genetic Algorithm". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1399–1400, Madrid, Spain. ACM.
- [Graham et al., 2015] Graham, K.; Swan, J.; and Martin, S. (2015). "The 'Blackboard Pattern' for Metaheuristics". In Simons, C.; Swan, J.; Krawiec, K.; Tauritz, D.; and Smith, J., editors, *GECCO 2015 2nd Workshop on Metaheuristic Design Patterns (MetaDeeP'15)*, pages 1265–1267, Madrid, Spain. ACM.
- [Haddadi and Zincir-Heywood, 2015] Haddadi, F. and Zincir-Heywood, A. N. (2015). "Botnet Detection System Analysis on the Effect of Botnet Evolution and Feature Representation". In Moore, F. W. and Zincir-Heywood, N., editors, *SecDef'2015 - Workshop on genetic and evolutionary computation in defense, security and risk management*, pages 893–900, Madrid, Spain. ACM.
- [Hamann, 2015] Hamann, H. (2015). "Evolution of Collective Behaviors by Minimizing Surprisal and by Micro-Macro Links". In Prieto, A.; Bredeche, N.; and Haasdijk, E., editors, *GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop*, pages 1253–1253, Madrid, Spain. ACM.
- [Haraldsson and Woodward, 2015] Haraldsson, S. O. and Woodward, J. R. (2015). "Genetic Improvement of Energy Usage is only as Reliable as the Measurements are Accurate". In Langdon, W. B.; White, D. R.; and Petke, J., editors, *Genetic Improvement 2015 Workshop*, pages 821–822, Madrid, Spain. ACM.
- [Harman and Petke, 2015] Harman, M. and Petke, J. (2015). "GI4GI: Improving Genetic Improvement Fitness Functions". In Langdon, W. B.; White, D. R.; and Petke, J., editors, *Genetic Improvement 2015 Workshop*, pages 793–794, Madrid, Spain. ACM.
- [Harris et al., 2015] Harris, S.; Bueter, T.; and Tauritz, D. R. (2015). "A Comparison of Genetic Programming Variants for Hyper-Heuristics". In Woodward, J.; Tauritz, D.; and Lopez-Ibanez, M., editors, *GECCO 2015 5th Workshop on Evolutionary Computation for the Automated Design of Algorithms (ECADA'15)*, pages 1043–1050, Madrid, Spain. ACM.
- [Hasegawa et al., 2015] Hasegawa, T.; Tsukada, K.; Mori, N.; and Matsumoto, K. (2015). "Adaptive Evolution Control with P-I Similarity Index for Surrogate-assisted Evolutionary Computation". In Sudholt, D., editor, *GECCO 2015 Late-Breaking Abstracts*, pages 759–760, Madrid, Spain. ACM.
- [Heinerman, 2015] Heinerman, J. (2015). "Collective Sharing of Knowledge in a DREAM". In Prieto, A.; Bredeche, N.; and Haasdijk, E., editors, *GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop*, pages 1243–1244, Madrid, Spain. ACM.
- [Heywood and Krawiec, 2015] Heywood, M. I. and Krawiec, K. (2015). "Solving Complex Problems with Coevolutionary Algorithms". In Simoes, A., editor, *GECCO 2015 Advanced Tutorials*, pages 547–573, Madrid, Spain. ACM.
- [Hruska and Kubalik, 2015] Hruska, F. and Kubalik, J. (2015). "Selection Hyper-Heuristic Using a Portfolio of Derivative Heuristics". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1401–1402, Madrid, Spain. ACM.

- [Inostroza-Ponta et al., 2015] Inostroza-Ponta, M.; Farfan, C.; and Dorn, M. (2015). "A Memetic Algorithm for Protein Structure Prediction based on Conformational Preferences of Aminoacid Residues". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1403–1404, Madrid, Spain. ACM.
- [Izidoro et al., 2015] Izidoro, S.; Lacerda, A. M.; and Pappa, G. L. (2015). "MeGASS: Multi-Objective Genetic Active Site Search". In Santos, J.; Handl, J.; and Shehu, A., editors, *GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology*, pages 905–910, Madrid, Spain. ACM.
- [Jankee et al., 2015] Jankee, C.; Verel, S.; Derbel, B.; and Flonlupt, C. (2015). "New Adaptive Selection Strategies for Distributed Adaptive Metaheuristic Selection". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1405–1406, Madrid, Spain. ACM.
- [Jia et al., 2015a] Jia, G.; He, S.; Zhu, Z.; Liu, J.; and Tang, K. (2015a). "A Multimodal Optimization and Surprise Based Consensus Community Detection Algorithm". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1407–1408, Madrid, Spain. ACM.
- [Jia et al., 2015b] Jia, Y.; Wu, F.; Harman, M.; and Krinke, J. (2015b). "Genetic Improvement using Higher Order Mutation". In Langdon, W. B.; White, D. R.; and Petke, J., editors, *Genetic Improvement 2015 Workshop*, pages 803–804, Madrid, Spain. ACM.
- [Jimenez Laredo et al., 2015] Jimenez Laredo, J. L.; Guinand, F.; Olivier, D.; and Bouvry, P. (2015). "Trading Off Resource Utilization and Task Migrations in Dynamic Load-balancing". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1409–1410, Madrid, Spain. ACM.
- [Johnson and Woodward, 2015] Johnson, C. G. and Woodward, J. R. (2015). "Fitness as Task-relevant Information Accumulation". In Langdon, W. B.; White, D. R.; and Petke, J., editors, *Genetic Improvement 2015 Workshop*, pages 855–856, Madrid, Spain. ACM.
- [Jung et al., 2015] Jung, C.; Kim, Y.-H.; Yoon, Y.; and Moon, B.-R. (2015). "An Adeaptive Method of Hungarian Mating Schemes in Genetic Algorithms". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta,

- C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1413–1414, Madrid, Spain. ACM.
- [Jungjit and Freitas, 2015] Jungjit, S. and Freitas, A. (2015). "A Lexicographic Multi-Objective Genetic Algorithm for Multi-Label Correlation Based Feature Selection". In Kuber, K.; Nakata, M.; and Shafi, K., editors, *GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems)*, pages 989–996, Madrid, Spain. ACM.
- [Karimpour and Ruhe, 2015] Karimpour, R. and Ruhe, G. (2015). "A Search Based Approach Towards Robust Optimization in Software Product Line Scoping". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1415–1416, Madrid, Spain. ACM.
- [Keedwell et al., 2015] Keedwell, E.; Johns, M.; and Savic, D. (2015). "Spatial and Temporal Visualisation of Evolutionary Algorithm Decisions in Water Distribution Network Optimisation". In Walker, D.; Everson, R.; and Fieldsend, J., editors, *6th Workshop on Visualisation Methods in Genetic and Evolutionary Computation (VizGEC 2015)*, pages 941–948, Madrid, Spain. ACM.
- [Krynicky and Jaen, 2015] Krynicky, K. and Jaen, J. (2015). "AntElements: An Extensible and Scalable Ant Colony Optimization Middleware". In Wagner, S. and Affenzeller, M., editors, *GECCO 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft'15)*, pages 1109–1116, Madrid, Spain. ACM.
- [Kumar et al., 2015] Kumar, U.; Jayadeva; and Soman, S. (2015). "Enhancing Incremental Ant Colony Algorithm for Continuous Global Optimization". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1417–1418, Madrid, Spain. ACM.
- [Landsborough et al., 2015] Landsborough, J.; Harding, S.; and Fugate, S. (2015). "Removing the Kitchen Sink from Software". In Langdon, W. B.; White, D. R.; and Petke, J., editors, *Genetic Improvement 2015 Workshop*, pages 833–838, Madrid, Spain. ACM.
- [Langdon and Harman, 2015] Langdon, W. B. and Harman, M. (2015). "Grow and Graft a Better CUDA pknotsRG for RNA Pseudoknot Free Energy Calculation". In Langdon, W. B.; White, D. R.; and Petke, J., editors, *Genetic Improvement 2015 Workshop*, pages 805–810, Madrid, Spain. ACM.
- [Lehre and Oliveto, 2015] Lehre, P. K. and Oliveto, P. S. (2015). "Runtime Analysis of Evolutionary Algorithms: Basic Introduction". In Simoes, A., editor, *GECCO 2015 Introductory Tutorials*, pages 121–136, Madrid, Spain. ACM.
- [Lessin and Risi, 2015] Lessin, D. and Risi, S. (2015). "Evolved Virtual Creatures with Soft-Body Muscles: On a Bio-Mimetic Path to Meaningful Morphological Complexity". In Sudholt, D., editor, *GECCO 2015 Late-Breaking Abstracts*, pages 761–762, Madrid, Spain. ACM.
- [Li et al., 2015] Li, H.-H.; Chen, Z.-G.; Zhan, Z.-H.; Du, K.-J.; and Zhang, J. (2015). "Renummer Coevolutionary Multiswarm Particle Swarm Optimization for Multi-objective Workflow Scheduling on Cloud Computing Environment". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.;

- Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1419–1420, Madrid, Spain. ACM.
- [Liang et al., 2015] Liang, L.; Han, H.; Zhaoquan, C.; and Hui, H. (2015). "Using Particle Swarm Large-scale Optimization to Improve Sampling-based Image Matting". In Walker, D.; Everson, R.; and Fieldsend, J., editors, *6th Workshop on Visualisation Methods in Genetic and Evolutionary Computation (VizGEC 2015)*, pages 957–961, Madrid, Spain. ACM.
- [Liskowski et al., 2015] Liskowski, P.; Krawiec, K.; Helmuth, T.; and Spector, L. (2015). "Comparison of Semantic-aware Selection Methods in Genetic Programming". In Johnson, C.; Krawiec, K.; Moraglio, A.; and O'Neill, M., editors, *GECCO 2015 Semantic Methods in Genetic Programming (SMGP'15) Workshop*, pages 1301–1307, Madrid, Spain. ACM.
- [Lobato et al., 2015] Lobato, F. M.; Tadaiesky, V. W.; Araujo, I. M.; and de Santana, A. L. (2015). "An Evolutionary Missing Data Imputation Method for Pattern Classification". In Kuber, K.; Nakata, M.; and Shafi, K., editors, *GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems)*, pages 1013–1019, Madrid, Spain. ACM.
- [Lobo and Bazargani, 2015] Lobo, F. G. and Bazargani, M. (2015). "When Hillclimbers Beat Genetic Algorithms in Multimodal Optimization". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1421–1422, Madrid, Spain. ACM.
- [Lopez-Garcia et al., 2015] Lopez-Garcia, P.; Onieva, E.; Osaba, E.; Masegosa, A. D.; and Perallos, A. (2015). "Hybridizing Genetic Algorithm with Cross Entropy for Solving Continuous Functions". In Sudholt, D., editor, *GECCO 2015 Late-Breaking Abstracts*, pages 763–764, Madrid, Spain. ACM.
- [Lopez-Herrejon et al., 2015] Lopez-Herrejon, R. E.; Linsbauer, L.; Assuncao, W. K.; Fischer, S.; Vergilio, S. R.; and Egyed, A. (2015). "Genetic Improvement for Software Product Lines: An Overview and a Roadmap". In Langdon, W. B.; White, D. R.; and Petke, J., editors, *Genetic Improvement 2015 Workshop*, pages 823–830, Madrid, Spain. ACM.
- [Machado et al., 2015] Machado, J.; Neves, R.; and Horta, N. (2015). "Developing Multi-Time Frame Trading Rules with a Trend Following Strategy, using GA". In Sudholt, D., editor, *GECCO 2015 Late-Breaking Abstracts*, pages 765–766, Madrid, Spain. ACM.
- [Madera et al., 2015] Madera, Q.; Garcia-Valdez, M.; Castillo, O.; and Mancilla, A. (2015). "A Method Based on Interactive Evolutionary Computation for Increasing the Effectiveness of Advertisement Texts". In Tusar, T. and Naujoks, B., editors, *GECCO'15 Student Workshop*, pages 1225–1228, Madrid, Spain. ACM.
- [Margarida and Antunes, 2015] Margarida, D. and Antunes, C. H. (2015). "Multi-objective Optimization of Sensor Placement to Detect Contamination in Water Distribution Networks". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1423–1424, Madrid, Spain. ACM.

- [Mariot and Leporati, 2015] Mariot, L. and Leporati, A. (2015). "Heuristic Search by Particle Swarm Optimization of Boolean Functions for Cryptographic Applications". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1425–1426, Madrid, Spain. ACM.
- [Marti et al., 2015] Marti, L.; Grimme, C.; Kerschke, P.; Trautmann, H.; and Rudolph, G. (2015). "Averaged Hausdorff Approximations of Pareto Fronts based on Multiobjective Estimation of Distribution Algorithms". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1427–1428, Madrid, Spain. ACM.
- [Martin et al., 2015] Martin, M. A.; Bertels, A. R.; and Tauritz, D. R. (2015). "Asynchronous Parallel Evolutionary Algorithms: Leveraging Heterogeneous Fitness Evaluation Times for Scalability and Elitist Parsimony Pressure". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1429–1430, Madrid, Spain. ACM.
- [Martin and Tauritz, 2015] Martin, M. A. and Tauritz, D. R. (2015). "Hyper-Heuristics: A Study On Increasing Primitive-Space". In Woodward, J.; Tauritz, D.; and Lopez-Ibanez, M., editors, *GECCO 2015 5th Workshop on Evolutionary Computation for the Automated Design of Algorithms (ECADA'15)*, pages 1051–1058, Madrid, Spain. ACM.
- [Martinez et al., 2015] Martinez, J.; Rossi, G.; Ziadi, T.; Bissyande, T. F. D. A.; Klein, J.; and Le Traon, Y. (2015). "Estimating and Predicting Average Likability on Computer-Generated Artwork Variants". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1431–1432, Madrid, Spain. ACM.
- [Martins and Delbem, 2015] Martins, J. P. and Delbem, A. C. (2015). "Handling Crossover Bias to Improve Diversity in Multiobjective Evolutionary Optimization". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1433–1434, Madrid, Spain. ACM.

- [McCall et al., 2015] McCall, J. A.; Christie, L. A.; and Brownlee, A. E. (2015). "Generating Easy and Hard Problems using the Proximate Optimality Principle". In Sudholt, D., editor, *GECCO 2015 Late-Breaking Abstracts*, pages 767–768, Madrid, Spain. ACM.
- [Medernach et al., 2015a] Medernach, D.; Fitzgerald, J.; Azad, R. M. A.; and Ryan, C. (2015a). "Wave: A Genetic Programming Approach to Divide and Conquer". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Wiedera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1435–1436, Madrid, Spain. ACM.
- [Medernach et al., 2015b] Medernach, D.; Fitzgerald, J.; Azad, R. M. A.; and Ryan, C. (2015b). "Wave: Incremental Erosion of Residual Error". In Johnson, C.; Krawiec, K.; Moraglio, A.; and O'Neill, M., editors, *GECCO 2015 Semantic Methods in Genetic Programming (SMGP'15) Workshop*, pages 1285–1292, Madrid, Spain. ACM.
- [Menendez and Camacho, 2015] Menendez, H. D. and Camacho, D. (2015). "MOGCLA: A Multi-Objective Genetic Clustering Algorithm for Large Data Analysis". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Wiedera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1437–1438, Madrid, Spain. ACM.
- [Merelo-Guervos, 2015] Merelo-Guervos, J. J. (2015). "Low or no cost distributed evolutionary computation". In Simoes, A., editor, *GECCO 2015 Specialized Tutorials*, pages 703–706, Madrid, Spain. ACM.
- [Merelo-Guervos and Garcia-Sanchez, 2015] Merelo-Guervos, J. J. and Garcia-Sanchez, P. (2015). "Designing and Modeling a Browser-Based Distributed Evolutionary Computation System". In Wagner, S. and Affenzeller, M., editors, *GECCO 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft'15)*, pages 1117–1124, Madrid, Spain. ACM.
- [Miikkulainen, 2015] Miikkulainen, R. (2015). "Evolving Neural Networks". In Simoes, A., editor, *GECCO 2015 Introductory Tutorials*, pages 137–161, Madrid, Spain. ACM.
- [Miller and Broersma, 2015] Miller, J. and Broersma, H. (2015). "Computational Matter: Evolving Computational Solutions in Materials". In Sudholt, D., editor, *GECCO 2015 Late-Breaking Abstracts*, pages 769–770, Madrid, Spain. ACM.
- [Miller and Turner, 2015] Miller, J. and Turner, A. (2015). "Cartesian Genetic Programming". In Simoes, A., editor, *GECCO 2015 Introductory Tutorials*, pages 179–198, Madrid, Spain. ACM.
- [Mirjalili and Lewis, 2015] Mirjalili, S. and Lewis, A. (2015). "A Reliable and Computationally Cheap Approach for Finding Robust Optimal Solutions". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Wiedera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1439–1440, Madrid, Spain. ACM.
- [Mironovich and Buzdalov, 2015] Mironovich, V. and Buzdalov, M. (2015). "Hard Test Generation for Maximum Flow Algorithms with the Fast Crossover-Based Evolutionary Algorithm". In Tusar, T. and Naujoks, B., editors, *GECCO'15 Student Workshop*, pages 1229–1232, Madrid, Spain. ACM.

- [Miyakawa et al., 2015] Miyakawa, M.; Takadama, K.; and Sato, H. (2015). "Control of Crossed Genes Ratio for Directed Mating in Evolutionary Constrained Multi-Objective Optimization". In Tusar, T. and Naujoks, B., editors, *GECCO'15 Student Workshop*, pages 1201–1204, Madrid, Spain. ACM.
- [Moraglio and Krawiec, 2015] Moraglio, A. and Krawiec, K. (2015). "Semantic Genetic Programming". In Simoes, A., editor, *GECCO 2015 Advanced Tutorials*, pages 603–627, Madrid, Spain. ACM.
- [Mousavi Astarabadi and Ebadzadeh, 2015] Mousavi Astarabadi, S. S. and Ebadzadeh, M. M. (2015). "Avoiding Overfitting in Symbolic Regression Using the First Order Derivative of GP Trees". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merele, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1441–1442, Madrid, Spain. ACM.
- [Mrazek et al., 2015] Mrazek, V.; Vasicek, Z.; and Sekanina, L. (2015). "Evolutionary Approximation of Software for Embedded Systems: Median Function". In Langdon, W. B.; White, D. R.; and Petke, J., editors, *Genetic Improvement 2015 Workshop*, pages 795–801, Madrid, Spain. ACM.
- [Mu and Hoos, 2015] Mu, Z. and Hoos, H. H. (2015). "Empirical Scaling Analyser: An Automated System for Empirical Analysis of Performance Scaling". In Sudholt, D., editor, *GECCO 2015 Late-Breaking Abstracts*, pages 771–772, Madrid, Spain. ACM.
- [Mueller-Bady et al., 2015] Mueller-Bady, R.; Gad, R.; Kappes, M.; and Medina-Bulo, I. (2015). "Using Genetic Algorithms for Deadline-Constrained Monitor Selection in Dynamic Computer Networks". In Moore, F. W. and Zincir-Heywood, N., editors, *SecDef'2015 - Workshop on genetic and evolutionary computation in defense, security and risk management*, pages 867–874, Madrid, Spain. ACM.
- [n. Browne, 2015] n. Browne, W. (2015). "Back to the Future: Learning Classifier Systems as Cognitive Systems". In Kuber, K.; Nakata, M.; and Shafi, K., editors, *GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems)*, pages 1037–1037, Madrid, Spain. ACM.
- [Najar et al., 2015] Najar, A.; Sigaud, O.; and Chetouani, M. (2015). "Socially Guided XCS: Using Teaching Signals to Boost Learning". In Kuber, K.; Nakata, M.; and Shafi, K., editors, *GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems)*, pages 1021–1028, Madrid, Spain. ACM.
- [Nebro et al., 2015] Nebro, A. J.; Durillo, J. J.; and Vergne, M. (2015). "Redesigning the jMetal Multi-Objective Optimization Framework". In Wagner, S. and Affenzeller, M., editors, *GECCO 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft'15)*, pages 1093–1100, Madrid, Spain. ACM.
- [Neumann and Sutton, 2015] Neumann, F. and Sutton, A. M. (2015). "Parameterized Complexity Analysis of Evolutionary Algorithms". In Simoes, A., editor, *GECCO 2015 Advanced Tutorials*, pages 435–450, Madrid, Spain. ACM.
- [Nielsen et al., 2015] Nielsen, S. S.; Danoy, G.; Bouvry, P.; and Talbi, E.-G. (2015). "NK Landscape Instances Mimicking the Protein Inverse Folding Problem Towards Future Benchmarks". In Santos, J.; Handl, J.; and Shehu, A., editors, *GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology*, pages 915–921, Madrid, Spain. ACM.
- [Nouri et al., 2015] Nouri, H. E.; Belkahla Driss, O.; and Ghedira, K. (2015). "Metaheuristics based on Clustering in a Holonic Multiagent Model for the Flexible Job Shop Problem". In Kuber, K.; Nakata, M.; and Shafi, K., editors, *GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems)*, pages 997–1004, Madrid, Spain. ACM.

- [Oprescu et al., 2015] Oprescu, A.-M.; (Vintila) Filip, A.; and Kielmann, T. (2015). "Fast Pareto Front Approximation for Cloud Instance Pool Optimization". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1443–1444, Madrid, Spain. ACM.
- [O'Reilly, 2015] O'Reilly, U.-M. (2015). "Genetic Programming: A Tutorial Introduction". In Simoes, A., editor, *GECCO 2015 Introductory Tutorials*, pages 3–19, Madrid, Spain. ACM.
- [Overbury and Berthouze, 2015] Overbury, P. and Berthouze, L. (2015). "Using Novelty-Biased GA to Sample Diversity in Graphs Satisfying Constraints". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1445–1446, Madrid, Spain. ACM.
- [Ozkan et al., 2015] Ozkan, O.; Ermis, M.; and Bekmezci, I. (2015). "A Hybrid Matheuristic Approach for Designing Reliable Wireless Multimedia Sensor Networks". In Moore, F. W. and Zincir-Heywood, N., editors, *SecDef'2015 - Workshop on genetic and evolutionary computation in defense, security and risk management*, pages 875–882, Madrid, Spain. ACM.
- [Pallez et al., 2015] Pallez, D.; Serrurier, M.; da Costa Pereira, C.; Fusco, G.; and Cao, C. (2015). "Social Specialization of Space: Clustering Households on the French Riviera". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1447–1448, Madrid, Spain. ACM.
- [Papa et al., 2015] Papa, J. P.; Rosa, G. H.; Costa, K. A.; Marana, N. A.; Scheirer, W.; and Cox, D. D. (2015). "On the Model Selection of Bernoulli Restricted Boltzmann Machines Through Harmony Search". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1449–1450, Madrid, Spain. ACM.
- [Pappa et al., 2015] Pappa, G.; Simoes, A.; Sudholt, D.; Langdon, W. B.; White, D. R.; Petke, J.; Moore, F. W.; Zincir-Heywood, N.; Santos, J.; Handl, J.; Shehu, A.; Walker, D.; Everson, R.; Fieldsend, J.; Kuber, K.; Nakata, M.; Shafi, K.; Woodward, J.; Tauritz, D.; Lopez-Ibanez, M.; Wagner, S.; Affenzeller, M.; Akimoto, Y.; Auger, A.; Brockhoff, D.; Hansen, N.; Mersmann, O.; Posik, P.; Tusar, T.; Naujoks, B.; Prieto, A.; Bredeche, N.; Haasdijk, E.; Simons, C.; Swan, J.; Krawiec, K.; Smith, J.; Johnson, C.; Moraglio, A.; O'Neill, M.; Smith, S. L.; Cagnoni, S.; and Patton, R. M., editors (2015). *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, Madrid, Spain.

- [Park et al., 2015] Park, J.; Nguyen, S.; Zhang, M.; and Johnston, M. (2015). "A Single Population Genetic Programming based Ensemble Learning Approach to Job Shop Scheduling". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Jacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1451–1452, Madrid, Spain. ACM.
- [Patelli et al., 2015] Patelli, A.; Bencomo, N.; Ekart, A.; Goldingay, H.; and Lewis, P. (2015). "Two-B or not Two-B?: Design Patterns for Hybrid Metaheuristics". In Simons, C.; Swan, J.; Krawiec, K.; Tauritz, D.; and Smith, J., editors, *GECCO 2015 2nd Workshop on Metaheuristic Design Patterns (MetaDeeP'15)*, pages 1269–1274, Madrid, Spain. ACM.
- [Pereira and Lobo, 2015] Pereira, J. C. and Lobo, F. G. (2015). "Parameter-less Evolutionary Portfolio: First Experiments". In Sudholt, D., editor, *GECCO 2015 Late-Breaking Abstracts*, pages 773–774, Madrid, Spain. ACM.
- [Perry and Bader-El-Den, 2015] Perry, T. and Bader-El-Den, M. (2015). "Imbalanced Classification Using Genetically Optimized Random Forests". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Jacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1453–1454, Madrid, Spain. ACM.
- [Petrova and Buzdalova, 2015] Petrova, I. and Buzdalova, A. (2015). "Selection of Auxiliary Objectives in the Travelling Salesman Problem using Reinforcement Learning". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Jacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1455–1456, Madrid, Spain. ACM.
- [Picek et al., 2015] Picek, S.; Miller, J. F.; Jakobovic, D.; and Batina, L. (2015). "Cartesian Genetic Programming Approach for Generating Substitution Boxes of Different Sizes". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Jacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1457–1458, Madrid, Spain. ACM.
- [Posik and Baudis, 2015] Posik, P. and Baudis, P. (2015). "Dimension Selection in Axis-Parallel Brent-STEP Method for Black-Box Optimization of Separable Continuous Functions". In Akimoto, Y.; Auger, A.; Brockhoff, D.; Hansen, N.; Mersmann, O.; and Posik, P., editors, *Black Box Optimization Benchmarking (BBOB 2015) Workshop*, pages 1151–1158, Madrid, Spain. ACM.
- [Preuss, 2015] Preuss, M. (2015). "Multimodal Optimization". In Simoes, A., editor, *GECCO 2015 Introductory Tutorials*, pages 293–312, Madrid, Spain. ACM.

- [Probst, 2015] Probst, M. (2015). "Denoising Autoencoders for Fast Combinatorial Black Box Optimization". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1459–1460, Madrid, Spain. ACM.
- [Rabanal et al., 2015] Rabanal, P.; Rodriguez, I.; and Rubio, F. (2015). "On the Uselessness of Finite Benchmarks to Assess Evolutionary and Swarm Methods". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1461–1462, Madrid, Spain. ACM.
- [Ramirez et al., 2015] Ramirez, A.; Romero, J. R.; and Ventura, S. (2015). "An Extensible JCLEC-based Solution for the Implementation of Multi-Objective Evolutionary Algorithms". In Wagner, S. and Affenzeller, M., editors, *GECCO 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft'15)*, pages 1085–1092, Madrid, Spain. ACM.
- [Ramirez-Atencia et al., 2015] Ramirez-Atencia, C.; Bello-Orgaz, G.; R-Moreno, M. D.; and Camacho, D. (2015). "A Hybrid MOGA-CSP for Multi-UAV Mission Planning". In Tusar, T. and Naujoks, B., editors, *GECCO'15 Student Workshop*, pages 1205–1208, Madrid, Spain. ACM.
- [Raß et al., 2015] Raß, A.; Schmitt, M.; and Wanka, R. (2015). "Explanation of Stagnation at Points that are not Local Optima in Particle Swarm Optimization by Potential Analysis". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1463–1464, Madrid, Spain. ACM.
- [Riff and Montero, 2015] Riff, M.-C. and Montero, E. (2015). "A Collaborative Strategy to Reduce Initial Setup Requirements of ParamILS using EvoCa". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1467–1468, Madrid, Spain. ACM.
- [Rivero et al., 2015] Rivero, D.; Fernandez-Blanco, E.; Dorado, J.; and Pazos, A. (2015). "Classification of Two-channel Signals by Means of Genetic Programming". In Smith, S. L.; Cagnoni, S.; and Patton, R. M., editors, *GECCO 2015 Medical Applications of Genetic and Evolutionary Computation (MedGEC'15) Workshop*, pages 1319–1325, Madrid, Spain. ACM.
- [Rojas et al., 2015] Rojas, N.; Montero, E.; and Riff, M.-C. (2015). "Using Anti-pheromone to Identify Core Objects for Multidimensional Knapsack Problems: A Two-step Ants based Approach". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega,

- F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1469–1470, Madrid, Spain. ACM.
- [Rothlauf, 2015] Rothlauf, F. (2015). "Representations for Evolutionary Algorithms". In Simoes, A., editor, *GECCO 2015 Introductory Tutorials*, pages 345–366, Madrid, Spain. ACM.
- [Runka and White, 2015] Runka, A. and White, T. (2015). "Evolving Neurocontrollers for the Control of Information Diffusion in Social Networks". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1471–1472, Madrid, Spain. ACM.
- [Rush et al., 2015] Rush, G.; Tauritz, D. R.; and Kent, A. D. (2015). "Coevolutionary Agent-based Network Defense Lightweight Event System (CANDLES)". In Moore, F. W. and Zincir-Heywood, N., editors, *SecDef'2015 - Workshop on genetic and evolutionary computation in defense, security and risk management*, pages 859–866, Madrid, Spain. ACM.
- [Ryser-Welch et al., 2015a] Ryser-Welch, P.; Miller, J. F.; and Asta, S. (2015a). "Evolutionary Cross-Domain Hyper-Heuristics". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1473–1474, Madrid, Spain. ACM.
- [Ryser-Welch et al., 2015b] Ryser-Welch, P.; Miller, J. F.; and Asta, S. (2015b). "Generating Human-readable Algorithms for the Travelling Salesman Problem using Hyper-Heuristics". In Woodward, J.; Tauritz, D.; and Lopez-Ibanez, M., editors, *GECCO 2015 5th Workshop on Evolutionary Computation for the Automated Design of Algorithms (ECADA'15)*, pages 1067–1074, Madrid, Spain. ACM.
- [Salah and Hart, 2015] Salah, A. and Hart, E. (2015). "Grid Diversity Operator for Some Population-Based Optimization Algorithms". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1475–1476, Madrid, Spain. ACM.
- [Santana et al., 2015] Santana, R.; Mendiburu, A.; and Lozano, J. A. (2015). "Multi-objective NM-Landscapes". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1477–1478, Madrid, Spain. ACM.

- [Santucci et al., 2015] Santucci, V.; Baidotti, M.; and Milani, A. (2015). "An Algebraic Differential Evolution for the Linear Ordering Problem". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1479–1480, Madrid, Spain. ACM.
- [Sapin et al., 2015] Sapin, E.; De Jong, K.; and Shehu, A. (2015). "Mapping Multiple Minima in Protein Energy Landscapes with Evolutionary Algorithms". In Santos, J.; Handl, J.; and Shehu, A., editors, *GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology*, pages 923–927, Madrid, Spain. ACM.
- [Sato et al., 2015] Sato, H.; Miyakawa, M.; and Perez-Cortes, E. (2015). "A Parallel MOEA/D Generating Solutions in Minimum Overlapped Update Ranges of Solutions". In Sudholt, D., editor, *GECCO 2015 Late-Breaking Abstracts*, pages 775–776, Madrid, Spain. ACM.
- [Scheibenpflug et al., 2015] Scheibenpflug, A.; Beham, A.; Kommenda, M.; Karder, J.; Wagner, S.; and Affenzeller, M. (2015). "Simplifying Problem Definitions in the HeuristicLab Optimization Environment". In Wagner, S. and Affenzeller, M., editors, *GECCO 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft'15)*, pages 1101–1108, Madrid, Spain. ACM.
- [Schmitt et al., 2015] Schmitt, J.; Seufert, S.; Zoubek, C.; and Koestler, H. (2015). "Potential-Field-Based Unit Behavior Optimization for Balancing in StarCraft II". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1481–1482, Madrid, Spain. ACM.
- [Schulte et al., 2015] Schulte, E. M.; Weimer, W.; and Forrest, S. (2015). "Repairing COTS Router Firmware without Access to Source Code or Test Suites: A Case Study in Evolutionary Software Repair". In Langdon, W. B.; White, D. R.; and Petke, J., editors, *Genetic Improvement 2015 Workshop*, pages 847–854, Madrid, Spain. ACM.
- [Scott and Bassett, 2015] Scott, E. O. and Bassett, J. K. (2015). "Learning Genetic Representations for Classes of Real-Valued Optimization Problems". In Woodward, J.; Tauritz, D.; and Lopez-Ibanez, M., editors, *GECCO 2015 5th Workshop on Evolutionary Computation for the Automated Design of Algorithms (ECADA '15)*, pages 1075–1082, Madrid, Spain. ACM.
- [Scott and De Jong, 2015] Scott, E. O. and De Jong, K. A. (2015). "Evaluation-Time Bias in Asynchronous Evolutionary Algorithms". In Tusar, T. and Naujoks, B., editors, *GECCO'15 Student Workshop*, pages 1209–1212, Madrid, Spain. ACM.
- [Shehu and De Jong, 2015] Shehu, A. and De Jong, K. (2015). "Evolutionary Algorithms for Protein Structure Modeling". In Simoes, A., editor, *GECCO 2015 Advanced Tutorials*, pages 533–545, Madrid, Spain. ACM.
- [Sher, 2015] Sher, G. (2015). "Momentum Enhanced Neuroevolution". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1483–1484, Madrid, Spain. ACM.

- [Sim and Hart, 2015] Sim, K. and Hart, E. (2015). "A Novel Heuristic Generator for JSSP Using a Tree-Based Representation of Dispatching Rules". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1485–1486, Madrid, Spain. ACM.
- [Smith, 2015] Smith, S. L. (2015). "Medical Applications of Evolutionary Computation". In Simoes, A., editor, *GECCO 2015 Specialized Tutorials*, pages 651–679, Madrid, Spain. ACM.
- [Soares et al., 2015] Soares, A. M.; Fernandes, B. J.; and Bastos-Filho, C. J. (2015). "Pyramidal Neural Networks with Variable Receptive Fields Designed by Genetic Algorithms". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1487–1488, Madrid, Spain. ACM.
- [Spector, 2015] Spector, L. (2015). "Expressive Genetic Programming". In Simoes, A., editor, *GECCO 2015 Advanced Tutorials*, pages 409–434, Madrid, Spain. ACM.
- [Stanley, 2015] Stanley, K. O. (2015). "Generative and Developmental Systems Tutorial". In Simoes, A., editor, *GECCO 2015 Advanced Tutorials*, pages 503–532, Madrid, Spain. ACM.
- [Stehling et al., 2015] Stehling, T. M.; DE Souza, S. R.; and De Franca Filho, M. F. (2015). "A Hybrid Particle Swarm Optimization for Solving Vehicle Routing Problem with Time Windows". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1489–1490, Madrid, Spain. ACM.
- [Steyven et al., 2015] Steyven, A.; Hart, E.; and Paechter, B. (2015). "The Cost of Communication: Environmental Pressure and Survivability in mEDEA". In Prieto, A.; Bredeche, N.; and Haasdijk, E., editors, *GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop*, pages 1239–1240, Madrid, Spain. ACM.
- [Stoean et al., 2015] Stoean, C.; Stoean, R.; Sandita, A.; Mesina, C.; Gruia, C. L.; and Ciobanu, D. (2015). "Evolutionary Search for An Accurate Contour Segmentation in Histopathological Images". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1491–1492, Madrid, Spain. ACM.
- [Stuetzle and Lopez-Ibanez, 2015] Stuetzle, T. and Lopez-Ibanez, M. (2015). "Automatic (Offline) Configuration of Algorithms". In Simoes, A., editor, *GECCO 2015 Specialized Tutorials*, pages 681–702, Madrid, Spain. ACM.

- [Sudholt, 2015] Sudholt, D. (2015). "Theory of Swarm Intelligence". In Simoes, A., editor, *GECCO 2015 Advanced Tutorials*, pages 451–471, Madrid, Spain. ACM.
- [Sun et al., 2015] Sun, Y.; Kirley, M.; and Halgamuge, S. K. (2015). "On the Selection of Decomposition Methods for Large Scale Fully Non-separable Problems". In Tusar, T. and Naujoks, B., editors, *GECCO'15 Student Workshop*, pages 1213–1216, Madrid, Spain. ACM.
- [Sungu and Boz, 2015] Sungu, G. and Boz, B. (2015). "An Evolutionary Algorithm for Weighted Graph Coloring Problem". In Tusar, T. and Naujoks, B., editors, *GECCO'15 Student Workshop*, pages 1233–1236, Madrid, Spain. ACM.
- [Takadama, 2015] Takadama, K. (2015). "A Potential of Evolutionary Rule-based Machine Learning for Real World Applications". In Kuber, K.; Nakata, M.; and Shafi, K., editors, *GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems)*, pages 1039–1040, Madrid, Spain. ACM.
- [Tanabe, 2015] Tanabe, R. (2015). "A Note on Multi-Funnel Functions for Expensive Optimization Scenario". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Jacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1493–1494, Madrid, Spain. ACM.
- [Thierens and Bosman, 2015] Thierens, D. and Bosman, P. A. (2015). "Model-Based Evolutionary Algorithms". In Simoes, A., editor, *GECCO 2015 Introductory Tutorials*, pages 93–120, Madrid, Spain. ACM.
- [Tomassini, 2015] Tomassini, M. (2015). "Introduction to Complex Networks". In Simoes, A., editor, *GECCO 2015 Introductory Tutorials*, pages 163–178, Madrid, Spain. ACM.
- [Trueba et al., 2015] Trueba, P.; Prieto, A.; Bellas, F.; and Duro, R. J. (2015). "Embodied Evolution for Collective Indoor Surveillance and Location". In Prieto, A.; Bredeche, N.; and Haasdijk, E., editors, *GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop*, pages 1241–1242, Madrid, Spain. ACM.
- [Trunfio, 2015] Trunfio, G. A. (2015). "An Effective Approach for Adapting the Size of Subcomponents in Large-Scale Optimization with Cooperative Coevolution". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Jacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1495–1496, Madrid, Spain. ACM.
- [Tsang and Lau, 2015] Tsang, W. W. and Lau, H. Y. (2015). "A Grid-facilitated AIS-based Network Scheme for Many-objective Optimization". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Jacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1497–1498, Madrid, Spain. ACM.
- [Tsutsui and Fujimoto, 2015] Tsutsui, S. and Fujimoto, N. (2015). "A Comparative Study of Synchronization of Parallel ACO on Multi-core Processor". In Sudholt, D., editor, *GECCO 2015 Late-Breaking Abstracts*, pages 777–778, Madrid, Spain. ACM.

- [Turner and Miller, 2015] Turner, A. J. and Miller, J. F. (2015). "Recurrent Cartesian Genetic Programming Applied to Series Forecasting". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1499–1500, Madrid, Spain. ACM.
- [Ugolotti and Cagnoni, 2015] Ugolotti, R. and Cagnoni, S. (2015). "Automatic Tuning of Standard PSO Versions". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1501–1502, Madrid, Spain. ACM.
- [Urbanowicz and Browne, 2015] Urbanowicz, R. and Browne, W. (2015). "Introducing Rule-based Machine Learning: A Practical Guide". In Simoes, A., editor, *GECCO 2015 Introductory Tutorials*, pages 263–292, Madrid, Spain. ACM.
- [Urbanowicz et al., 2015] Urbanowicz, R.; Ramanand, N.; and Moore, J. (2015). "Continuous Endpoint Data Mining with ExSTraCS: A Supervised Learning Classifier System". In Kuber, K.; Nakata, M.; and Shafi, K., editors, *GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems)*, pages 1029–1036, Madrid, Spain. ACM.
- [Urquhart et al., 2015] Urquhart, N. B.; Hart, E.; and Judson, A. (2015). "Multi-Modal Employee Routing with Time Windows in an Urban Environment". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1503–1504, Madrid, Spain. ACM.
- [Varela and Santos, 2015] Varela, D. and Santos, J. (2015). "Combination of Differential Evolution and Fragment-based Replacements for Protein Structure Prediction". In Santos, J.; Handl, J.; and Shehu, A., editors, *GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology*, pages 911–914, Madrid, Spain. ACM.
- [Vargas et al., 2015] Vargas, D. V.; Takano, H.; and Murata, J. (2015). "The Relationship Between (Un)Fractured Problems and Division of Input Space". In Kuber, K.; Nakata, M.; and Shafi, K., editors, *GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems)*, pages 981–987, Madrid, Spain. ACM.
- [Vasicek and Sekanina, 2015] Vasicek, Z. and Sekanina, L. (2015). "Evolutionary Approximation of Complex Digital Circuits". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1505–1506, Madrid, Spain. ACM.

- [Velasco et al., 2015] Velasco, J. M.; Winkler, S.; Hidalgo, J. I.; Garnica, O.; Lanchares, J.; Colmenar, J. M.; Maqueda, E.; Botella, M.; and Rubio, J.-A. (2015). "Data-Based Identification of Prediction Models for Glucose". In Smith, S. L.; Cagnoni, S.; and Patton, R. M., editors, *GECCO 2015 Medical Applications of Genetic and Evolutionary Computation (MedGEC'15) Workshop*, pages 1327–1334, Madrid, Spain. ACM.
- [Verbancsics, 2015] Verbancsics, P. (2015). "Impact of Speciation Heuristic on Crossover and Search in NEAT". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1509–1510, Madrid, Spain. ACM.
- [Verbancsics and Harguess, 2015] Verbancsics, P. and Harguess, J. (2015). "Classifying Maritime Vessels from Satellite Imagery with HyperNEAT". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1507–1508, Madrid, Spain. ACM.
- [von Luecken et al., 2015] von Luecken, C.; Monzon, H.; Brizuela, C.; and Baran, B. (2015). "Dimensionality Reduction in Many-objective Problems Combining PCA and Spectral Clustering". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1511–1512, Madrid, Spain. ACM.
- [Wagy and Bongard, 2015] Wagy, M. D. and Bongard, J. C. (2015). "Crowdseeding Robot Design". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1513–1514, Madrid, Spain. ACM.
- [Walker, 2015] Walker, D. J. (2015). "Visualising Multi-objective Populations with Treemaps". In Walker, D.; Everson, R.; and Fieldsend, J., editors, *6th Workshop on Visualisation Methods in Genetic and Evolutionary Computation (VizGEC 2015)*, pages 963–970, Madrid, Spain. ACM.
- [Watkins and Buttkeewitz, 2015] Watkins, C. and Buttkeewitz, Y. (2015). "Efficient Sampling with Small Populations: a Genetic Algorithm Satisfying Detailed Balance". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and

- Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1517–1518, Madrid, Spain. ACM.
- [Weiss Cohen et al., 2015] Weiss Cohen, M.; Dahan, A.; and Kaspi, I. (2015). "Software System for Container Vessel Stowage Planning using Genetic Algorithm". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1519–1520, Madrid, Spain. ACM.
- [White and Singer, 2015] White, D. R. and Singer, J. (2015). "Rethinking Genetic Improvement Programming". In Langdon, W. B.; White, D. R.; and Petke, J., editors, *Genetic Improvement 2015 Workshop*, pages 845–846, Madrid, Spain. ACM.
- [White et al., 2015] White, D. R.; Yoo, S.; and Singer, J. (2015). "The Programming Game: Evaluating MCTS as an Alternative to GP for Symbolic Regression". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1521–1522, Madrid, Spain. ACM.
- [Whitley, 2015] Whitley, D. (2015). "Blind No More: Constant Time Non-Random Improving Moves and Exponentially Powerful Recombination". In Simoes, A., editor, *GECCO 2015 Advanced Tutorials*, pages 391–407, Madrid, Spain. ACM.
- [Woodward and Tauritz, 2015] Woodward, J. R. and Tauritz, D. R. (2015). "Hyper-Heuristics". In Simoes, A., editor, *GECCO 2015 Introductory Tutorials*, pages 199–230, Madrid, Spain. ACM.
- [Wu et al., 2015] Wu, Y.-M.; Chen, L.-Y.; Lee, P.-M.; and Hsiao, T.-C. (2015). "Enable the XCS to Dynamically Learn Multiple Problems: A Sensor Tagging Approach". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1523–1524, Madrid, Spain. ACM.
- [Xie et al., 2015] Xie, J.; Mei, Y.; and Song, A. (2015). "Evolving Self-Adaptive Tabu Search Algorithm for Storage Location Assignment Problems". In Sudholt, D., editor, *GECCO 2015 Late-Breaking Abstracts*, pages 779–780, Madrid, Spain. ACM.
- [Yang, 2015] Yang, S. (2015). "Evolutionary Computation for Dynamic Optimization Problems". In Simoes, A., editor, *GECCO 2015 Advanced Tutorials*, pages 629–649, Madrid, Spain. ACM.
- [Yeboah-Antwi and Baudry, 2015] Yeboah-Antwi, K. and Baudry, B. (2015). "Embedding Adaptivity in Software Systems using the ECSELR framework". In Langdon, W. B.; White, D. R.; and Petke, J., editors, *Genetic Improvement 2015 Workshop*, pages 839–844, Madrid, Spain. ACM.
- [Yliniemi and Tumer, 2015] Yliniemi, L. and Tumer, K. (2015). "Complete Multi-Objective Coverage with PaCcET". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.;

- Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1525–1526, Madrid, Spain. ACM.
- [Zahadat et al., 2015] Zahadat, P.; Hamann, H.; and Schmickl, T. (2015). "Evolving Diverse Collective Behaviors Independent of Swarm Density". In Prieto, A.; Bredeche, N.; and Haasdijk, E., editors, *GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR'15) Workshop*, pages 1245–1246, Madrid, Spain. ACM.
- [Zegklitz and Posik, 2015a] Zegklitz, J. and Posik, P. (2015a). "Model Selection and Overfitting in Genetic Programming: Empirical Study". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1527–1528, Madrid, Spain. ACM.
- [Zegklitz and Posik, 2015b] Zegklitz, J. and Posik, P. (2015b). "Symbolic Regression by Grammar-based Multi-Gene Genetic Programming". In Tusar, T. and Naujoks, B., editors, *GECCO'15 Student Workshop*, pages 1217–1220, Madrid, Spain. ACM.
- [Zhang and Cagnoni, 2015] Zhang, M. and Cagnoni, S. (2015). "Evolutionary Image Analysis, Signal Processing and Pattern Recognition". In Simoes, A., editor, *GECCO 2015 Advanced Tutorials*, pages 473–502, Madrid, Spain. ACM.
- [Zhang and Deng, 2015] Zhang, M. and Deng, Y. (2015). "An Improved Artificial Fish Swarm Algorithm in Image Segmentation application". In Sudholt, D., editor, *GECCO 2015 Late-Breaking Abstracts*, pages 781–782, Madrid, Spain. ACM.
- [Zheng et al., 2015] Zheng, J.; Bai, H.; Shen, R.; and Li, M. (2015). "A Comparative Study Use of OTL for Many-objective Optimization". In Silva, S.; Esparcia-Alcazar, A. I.; Lopez-Ibanez, M.; Mostaghim, S.; Timmis, J.; Zarges, C.; Correia, L.; Soule, T.; Giacobini, M.; Urbanowicz, R.; Akimoto, Y.; Glasmachers, T.; Fernandez de Vega, F.; Hoover, A.; Larranaga, P.; Soto, M.; Cotta, C.; Pereira, F. B.; Handl, J.; Koutnik, J.; Gaspar-Cunha, A.; Trautmann, H.; Mouret, J.-B.; Risi, S.; Costa, E.; Schuetze, O.; Krawiec, K.; Moraglio, A.; Miller, J. F.; Widera, P.; Cagnoni, S.; Merelo, J.; Hart, E.; Trujillo, L.; Keswsentini, M.; Ochoa, G.; Chicano, F.; and Doerr, C., editors, *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, pages 1411–1412, Madrid, Spain. ACM.