

Список литературы

- [1] Y. Akimoto and A. Auger, “Theory of evolution strategies and related algorithms,” in *GECCO 2015 Advanced Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 575–588.
- [2] Y. Akimoto, A. Auger, and N. Hansen, “Continuous optimization and cma-es,” in *GECCO 2015 Introductory Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 313–344.
- [3] E. Alba, “Intelligent systems for smart cities,” in *GECCO 2015 Specialized Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 707–722.
- [4] H. J. Aljawawdeh, C. L. Simons, and M. Odeh, “Metaheuristic design pattern: Preference,” in *GECCO 2015 2nd Workshop on Metaheuristic Design Patterns (MetaDeeP’15)*, C. Simons, J. Swan, K. Krawiec, D. Tauritz, and J. Smith, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1257–1260.
- [5] L. Altin, H. R. Topcuoglu, and M. Ermis, “Evolutionary dynamic optimization techniques for marine contamination problem,” in *SecDef’2015 - Workshop on genetic and evolutionary computation in defense, security and risk management*, F. W. Moore and N. Zincir-Heywood, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 889–892.
- [6] K. Alyahya and J. E. Rowe, “Landscape properties of the 0-1 knapsack problem,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Wiedera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1343–1344.
- [7] M.-Y. Ameca-Alducin, E. Mezura-Montes, and N. Cruz-Ramirez, “Differential evolution with a repair method to solve dynamic constrained optimization problems,” in *GECCO’15 Student Workshop*, T. Tusar and B. Naujoks, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1169–1172.
- [8] L. Araujo, J. Martinez-Romo, and A. Duque, “Grammatical evolution for identifying wikipedia taxonomies,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Wiedera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1345–1346.
- [9] S. Astete-Morales, M.-L. Cauwet, and O. Teytaud, “Criteria and convergence rates in noisy optimization,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Wiedera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1347–1348.
- [10] A. Atamna, “Benchmarking ipop-cma-es-tpa and ipop-cma-es-msr on the bbob noiseless testbed,” in *Black Box Optimization Benchmarking (BBOB 2015) Workshop*, Y. Akimoto, A. Auger, D. Brockhoff, N. Hansen, O. Mersmann, and P. Posik, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1135–1142.

- [11] E. Atılğan and J. Hu, “A combinatorial genetic algorithm for computational doping based material design,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1349–1350.
- [12] J. E. Auerbach, G. Heitz, P. M. Kornatowski, and D. Floreano, “Rapid evolution of robot gaits,” in *GECCO 2015 Late-Breaking Abstracts*, D. Sudholt, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 743–744.
- [13] M. Ayodele, J. McCall, and O. Regnier-Coudert, “Probabilistic model enhanced genetic algorithm for multi-mode resource constrained project scheduling problem,” in *GECCO 2015 Late-Breaking Abstracts*, D. Sudholt, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 745–746.
- [14] L. Bajer, Z. Pitra, and M. Holena, “Benchmarking gaussian processes and random forests surrogate models on the bbob noiseless testbed,” in *Black Box Optimization Benchmarking (BBOB 2015) Workshop*, Y. Akimoto, A. Auger, D. Brockhoff, N. Hansen, O. Mersmann, and P. Posik, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1143–1150.
- [15] —, “Investigation of gaussian processes and random forests as surrogate models for evolutionary black-box optimization,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1351–1352.
- [16] A. Baldominos, Y. Saez, and P. Isasi, “Feature set optimization for physical activity recognition using genetic algorithms,” in *GECCO 2015 Medical Applications of Genetic and Evolutionary Computation (MedGEC’15) Workshop*, S. L. Smith, S. Cagnoni, and R. M. Patton, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1311–1318.
- [17] Z. Bankovic and P. Lopez-Garcia, “Energy efficient allocation and scheduling for dvfs-enabled multicore environments using a multiobjective evolutionary algorithm,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1353–1354.
- [18] A. Benbassat and A. Henik, “Examining the stroop effect using a developmental spatial neuroevolution system,” in *GECCO 2015 Late-Breaking Abstracts*, D. Sudholt, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 747–748.
- [19] B. Berger, A. Andino, A. Danise, and J. Rieffel, “Growing and evolving vibrationally actuated soft robots,” in *GECCO’15 Student Workshop*, T. Tutar and B. Naujoks, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1221–1224.
- [20] A. Bernatskiy and J. C. Bongard, “Exploiting the relationship between structural modularity and sparsity for faster network evolution,” in *GECCO’15 Student Workshop*, T. Tutar and B. Naujoks, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1173–1176.

- [21] A. Berny, “Herding evolutionary algorithm,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1355–1356.
- [22] J. bin Wang, W.-N. Chen, J. Zhang, and Y. Lin, “A dimension-decreasing particle swarm optimization method for portfolio optimization,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1515–1516.
- [23] M. Bokhari and M. Wagner, “Improving test coverage of formal verification systems via beam search,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1357–1358.
- [24] M. Boussaa, O. Barais, G. Sunye, and B. Baudry, “A novelty search-based test data generator for object-oriented programs,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1359–1360.
- [25] C. Bozdogan, Y. Gokcen, and I. Zincir, “A preliminary investigation on the identification of peer to peer network applications,” in *SecDef’2015 - Workshop on genetic and evolutionary computation in defense, security and risk management*, F. W. Moore and N. Zincir-Heywood, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 883–888.
- [26] N. Bredeche, S. Doncieux, and J.-B. Mouret, “Tutorial on evolutionary robotics,” in *GECCO 2015 Introductory Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 231–261.
- [27] N. Bredeche, E. Haasdijk, and A. Prieto, “Elements of embodied evolutionary robotics,” in *GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR’15) Workshop*, A. Prieto, N. Bredeche, and E. Haasdijk, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1247–1247.
- [28] C. Brizuela, R. I. Corona, C. Lezcano, D. Rodriguez, and J. D. Colbes, “An experimental analysis of the performance of sidechain packing algorithms,” in *GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology*, J. Santos, J. Handl, and A. Shehu, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 929–933.
- [29] D. Brockhoff, B. Bischl, and T. Wagner, “The impact of initial designs on the performance of matsumoto on the noiseless bbob-2015 testbed: A preliminary study,” in *Black Box Optimization Benchmarking (BBOB 2015) Workshop*, Y. Akimoto, A. Auger, D. Brockhoff, N. Hansen, O. Mersmann, and P. Posik, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1159–1166.

- [30] D. Brockhoff and T. Wagner, “Tutorial on evolutionary multiobjective optimization,” in *GECCO 2015 Introductory Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 37–63.
- [31] J. Brookhouse and F. E. Otero, “Discovering regression rules with ant colony optimization,” in *GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems)*, K. Kuber, M. Nakata, and K. Shafi, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1005–1012.
- [32] A. E. Brownlee, J. R. Woodward, and J. Swan, “Metaheuristic design pattern: Surrogate fitness functions,” in *GECCO 2015 2nd Workshop on Metaheuristic Design Patterns (MetaDeeP’15)*, C. Simons, J. Swan, K. Krawiec, D. Tauritz, and J. Smith, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1261–1264.
- [33] B. R. Bruce, “Energy optimisation via genetic improvement: A sbse technique for a new era in software development,” in *Genetic Improvement 2015 Workshop*, W. B. Langdon, D. R. White, and J. Petke, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 819–820.
- [34] N. Burles, J. Swan, E. Bowles, A. E. Brownlee, Z. A. Kocsis, and N. Veerapen, “Embedded dynamic improvement,” in *Genetic Improvement 2015 Workshop*, W. B. Langdon, D. R. White, and J. Petke, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 831–832.
- [35] M. Buzdalov and V. Parfenov, “Various degrees of steadiness in nsga-ii and their influence on the quality of results,” in *GECCO 2015 Late-Breaking Abstracts*, D. Sudholt, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 749–750.
- [36] A. Buzdalova, A. Matveeva, and G. Korneev, “Selection of auxiliary objectives with multi-objective reinforcement learning,” in *GECCO’15 Student Workshop*, T. Tutar and B. Naujoks, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1177–1180.
- [37] F. Cabassi and M. Locatelli, “A computational comparison of memetic differential evolution approaches,” in *GECCO’15 Student Workshop*, T. Tutar and B. Naujoks, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1181–1184.
- [38] R. Cantoro, M. Gaudesi, E. Sanchez, and G. Squillero, “Exploiting evolutionary computation in an industrial flow for the development of code-optimized microprocessor test programs,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Wiedera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1465–1466.
- [39] M. Cardenas-Montes, M. A. Vega-Rodriguez, J. J. Rodriguez-Vazquez, and A. Gomez-Iglesias, “A comparison exercise on parallel evaluation of rosenbrock function,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Wiedera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1361–1362.
- [40] A. Chaabani, S. Bechikh, L. Ben Said, and R. Azzouz, “An improved co-evolutionary decomposition-based algorithm for bi-level combinatorial optimization,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto,

- T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1363–1364.
- [41] T. Chabin, A. Tonda, and E. Lutton, “Is global sensitivity analysis useful to evolutionary computation?” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1365–1366.
- [42] O. Chebbi and J. Chaouachi, “Evolutionary approach for minimizing consumed energy in a personal rapid transit transportation system with a multi-depot network topology: Minimizing consumed energy in a prt system with a multi-depot network topology,” in *GECCO 2015 Late-Breaking Abstracts*, D. Sudholt, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 751–752.
- [43] L.-Y. Chen, P.-M. Lee, and T.-C. Hsiao, “Dynamically adding sensors to the xcs in multistep problems: A sensor tagging approach,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1367–1368.
- [44] —, “A novel representation of classifier conditions named sensory tag for the xcs in multistep problems,” in *GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems)*, K. Kuber, M. Nakata, and K. Shafi, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 973–980.
- [45] G. Chennupati, R. M. A. Azad, and C. Ryan, “On the automatic generation of efficient parallel iterative sorting algorithms,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1369–1370.
- [46] —, “Synthesis of parallel iterative sorts with multi-core grammatical evolution,” in *GECCO 2015 5th Workshop on Evolutionary Computation for the Automated Design of Algorithms (ECADA’15)*, J. Woodward, D. Tauritz, and M. Lopez-Ibanez, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1059–1066.
- [47] D. Chivilikhin, I. Ivanov, and A. Shalyto, “Inferring temporal properties of finite-state machine models with genetic programming,” in *GECCO’15 Student Workshop*, T. Tusar and B. Naujoks, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1185–1188.
- [48] J. Christmas, “Genetic c programming with probabilistic evaluation,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers,

- F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Wiedera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1371–1372.
- [49] B. Cody-Kenny, E. Galvan-Lopez, and S. Barrett, “locogp: Improving performance by genetic programming java source code,” in *Genetic Improvement 2015 Workshop*, W. B. Langdon, D. R. White, and J. Petke, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 811–818.
- [50] C. A. Coello Coello, “Constraint-handling techniques used with evolutionary algorithms,” in *GECCO 2015 Advanced Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 367–389.
- [51] A. Cruz, P. Machado, F. Assuncao, and A. Leitao, “Elicit: Evolutionary computation visualization,” in *6th Workshop on Visualisation Methods in Genetic and Evolutionary Computation (VizGEC 2015)*, D. Walker, R. Everson, and J. Fieldsend, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 949–956.
- [52] S. Cussat-Blanc and W. Banzhaf, “Introduction to gene regulatory networks,” in *GECCO 2015 Advanced Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 589–601.
- [53] J.-M. Cutillas-Lozano, M.-A. Franco, and D. Gimenez, “Comparing variable width backtracking and metaheuristics, experiments with the maximum diversity problem,” in *GECCO 2015 Late-Breaking Abstracts*, D. Sudholt, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 753–754.
- [54] J. J. Davila, “An empirical comparison of genetically evolved programs and evolved neural networks for multi-agent systems operating under dynamic environments,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Wiedera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1373–1374.
- [55] R. de Bokx, D. Thierens, and P. A. Bosman, “In search of optimal linkage trees,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Wiedera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1375–1376.
- [56] K. A. De Jong, “Evolutionary computation: A unified approach,” in *GECCO 2015 Introductory Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 21–35.
- [57] P. de las Cuevas Delgado, J. J. Merelo, and P. Garcia Sanchez, “Soft computing techniques applied to corporate and personal security,” in *GECCO’15 Student Workshop*, T. Tusar and B. Naujoks, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1193–1196.
- [58] J. Decock, J. Liu, and O. Tetaud, “Variance reduction in population-based optimization: Application to unit commitment,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha,

- H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1377–1378.
- [59] T. Decroos, P. De Causmaecker, and B. Demoen, “Solving euclidean steiner tree problems with multi swarm optimization,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1379–1380.
- [60] H. Degroote and P. De Causmaecker, “Towards a knowledge base for performance data: A formal model for performance comparison,” in *GECCO’15 Student Workshop*, T. Tusar and B. Naujoks, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1189–1192.
- [61] T. DeVautl, S. Forrest, I. Tanimoto, T. Soule, and R. Heckendorn, “Learning from demonstration for distributed, encapsulated evolution of autonomous outdoor robots,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1381–1382.
- [62] J. Diaz Alvarez, J. M. Colmenar, J. L. Risco-Martin, J. Lanchares, and O. Garnica, “Optimizing performance of l1 cache memory for embedded systems driven by differential evolution,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1383–1384.
- [63] V. Dorfer, S. Maltsev, S. Dreiseitl, K. Mechtler, and S. M. Winkler, “A symbolic regression based scoring system improving peptide identifications for ms amanda,” in *GECCO 2015 Medical Applications of Genetic and Evolutionary Computation (MedGEC’15) Workshop*, S. L. Smith, S. Cagnoni, and R. M. Patton, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1335–1341.
- [64] M. M. Drugan, “Synergies between evolutionary algorithms and reinforcement learning,” in *GECCO 2015 Specialized Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 723–740.
- [65] X. Du, Y. Ni, and P. Ye, “A multi-objective evolutionary algorithm for rule-based performance optimization at software architecture level,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1385–1386.

- [66] A. Engelbrecht, “Particle swarm optimization,” in *GECCO 2015 Introductory Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 65–91.
- [67] E. Fatnassi and J. Chaouachi, “Design and development of a genetic algorithm for the distance constrained vehicle routing problem with environmental issues: Genetic algorithm for the green distance constrained vehicle routing problem,” in *GECCO 2015 Late-Breaking Abstracts*, D. Sudholt, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 755–756.
- [68] S. Fernandez, S. Alvarez, E. Malatsetxebarria, P. Valledor, and D. Diaz, “Performance comparison of ant colony algorithms for the scheduling of steel production lines,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1387–1388.
- [69] R. Ffrancon and M. Schoenauer, “Greedy semantic local search for small solutions,” in *GECCO 2015 Semantic Methods in Genetic Programming (SMGP’15) Workshop*, C. Johnson, K. Krawiec, A. Moraglio, and M. O’Neill, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1293–1300.
- [70] P. Filipiak, K. Michalak, and P. Lipinski, “Infeasibility driven evolutionary algorithm with the anticipation mechanism for the reaching goal in dynamic constrained inverse kinematics,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1389–1390.
- [71] S. Forstenlechner, M. Nicolau, D. Fagan, and M. O’Neill, “Introducing semantic-clustering selection in grammatical evolution,” in *GECCO 2015 Semantic Methods in Genetic Programming (SMGP’15) Workshop*, C. Johnson, K. Krawiec, A. Moraglio, and M. O’Neill, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1277–1284.
- [72] J. S. Freitas, C. Garrozi, and M. Valenca, “Insertion of artificial individuals to increase the diversity of multiobjective evolutionary algorithms,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1391–1392.
- [73] A. Gabler, M. Colby, and K. Tumer, “Learning based control of a fuel cell turbine hybrid power system,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1393–1394.

- [74] A. Gaier, “Evolutionary design via indirect encoding of non-uniform rational basis splines,” in *GECCO’15 Student Workshop*, T. Tutar and B. Naujoks, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1197–1200.
- [75] W. Gao, M. Pourhassan, and F. Neumann, “Runtime analysis of evolutionary diversity optimization and the vertex cover problem,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Wiedera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1395–1396.
- [76] M. Garza-Fabre, S. M. Kandathil, J. Handl, J. D. Knowles, and S. C. Lovell, “Using machine learning to explore the relevance of local and global features during conformational search in rosetta,” in *GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology*, J. Santos, J. Handl, and A. Shehu, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 935–938.
- [77] L. P. Garzon-Rodriguez, H. A. Diosa, and S. Rojas-Galeano, “Deconstructing gas into visual software components,” in *GECCO 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft’15)*, S. Wagner and M. Affenzeller, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1125–1132.
- [78] M. Gaudesi, A. Marcelli, E. Sanchez, G. Squillero, and A. Tonda, “Malware obfuscation through evolutionary packers,” in *GECCO 2015 Late-Breaking Abstracts*, D. Sudholt, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 757–758.
- [79] F. Ghassemi Toosi, N. S. Nikolov, and M. Eaton, “Evolving smart initial layouts for force-directed graph drawing,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Wiedera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1397–1398.
- [80] F. Golemo, M. Markovic, J. Schoormans, P. De Jonge, M. Couwenberg, and E. Haasdijk, “Simulating morphological evolution in large robot populations,” in *GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR’15) Workshop*, A. Prieto, N. Bredeche, and E. Haasdijk, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1249–1250.
- [81] J. Gomes, P. Mariano, and A. L. Christensen, “Hyb-ccca: Cooperative coevolution of hybrid teams,” in *GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR’15) Workshop*, A. Prieto, N. Bredeche, and E. Haasdijk, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1251–1252.
- [82] M. Gorji Sefidmazgi, M. Moradi Kordmahalleh, and A. Homaifar, “Identification of switched models in non-stationary time series based on coordinate-descent and genetic algorithm,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Wiedera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1399–1400.

- [83] K. Graham, J. Swan, and S. Martin, “The ‘blackboard pattern’ for metaheuristics,” in *GECCO 2015 2nd Workshop on Metaheuristic Design Patterns (MetaDeeP’15)*, C. Simons, J. Swan, K. Krawiec, D. Tauritz, and J. Smith, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1265–1267.
- [84] F. Haddadi and A. N. Zincir-Heywood, “Botnet detection system analysis on the effect of botnet evolution and feature representation,” in *SecDef’2015 - Workshop on genetic and evolutionary computation in defense, security and risk management*, F. W. Moore and N. Zincir-Heywood, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 893–900.
- [85] H. Hamann, “Evolution of collective behaviors by minimizing surprisal and by micro-macro links,” in *GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR’15) Workshop*, A. Prieto, N. Bredeche, and E. Haasdijk, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1253–1253.
- [86] S. O. Haraldsson and J. R. Woodward, “Genetic improvement of energy usage is only as reliable as the measurements are accurate,” in *Genetic Improvement 2015 Workshop*, W. B. Langdon, D. R. White, and J. Petke, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 821–822.
- [87] M. Harman and J. Petke, “Gi4gi: Improving genetic improvement fitness functions,” in *Genetic Improvement 2015 Workshop*, W. B. Langdon, D. R. White, and J. Petke, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 793–794.
- [88] S. Harris, T. Bueter, and D. R. Tauritz, “A comparison of genetic programming variants for hyper-heuristics,” in *GECCO 2015 5th Workshop on Evolutionary Computation for the Automated Design of Algorithms (ECADA’15)*, J. Woodward, D. Tauritz, and M. Lopez-Ibanez, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1043–1050.
- [89] T. Hasegawa, K. Tsukada, N. Mori, and K. Matsumoto, “Adaptive evolution control with p-i similarity index for surrogate-assisted evolutionary computation,” in *GECCO 2015 Late-Breaking Abstracts*, D. Sudholt, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 759–760.
- [90] J. Heinerman, “Collective sharing of knowledge in a dream,” in *GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR’15) Workshop*, A. Prieto, N. Bredeche, and E. Haasdijk, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1243–1244.
- [91] M. I. Heywood and K. Krawiec, “Solving complex problems with coevolutionary algorithms,” in *GECCO 2015 Advanced Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 547–573.
- [92] F. Hruska and J. Kubalik, “Selection hyper-heuristic using a portfolio of derivative heuristics,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1401–1402.
- [93] M. Inostroza-Ponta, C. Farfan, and M. Dorn, “A memetic algorithm for protein structure prediction based on conformational preferences of aminoacid residues,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1403–1404.

- [94] S. Izidoro, A. M. Lacerda, and G. L. Pappa, “Megass: Multi-objective genetic active site search,” in *GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology*, J. Santos, J. Handl, and A. Shehu, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 905–910.
- [95] C. Jankee, S. Verel, B. Derbel, and C. Flonlupt, “New adaptive selection strategies for distributed adaptive metaheuristic selection,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1405–1406.
- [96] G. Jia, S. He, Z. Zhu, J. Liu, and K. Tang, “A multimodal optimization and surprise based consensus community detection algorithm,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1407–1408.
- [97] Y. Jia, F. Wu, M. Harman, and J. Krinke, “Genetic improvement using higher order mutation,” in *Genetic Improvement 2015 Workshop*, W. B. Langdon, D. R. White, and J. Petke, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 803–804.
- [98] J. L. Jimenez Laredo, F. Guinand, D. Olivier, and P. Bouvry, “Trading off resource utilization and task migrations in dynamic load-balancing,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1409–1410.
- [99] C. G. Johnson and J. R. Woodward, “Fitness as task-relevant information accumulation,” in *Genetic Improvement 2015 Workshop*, W. B. Langdon, D. R. White, and J. Petke, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 855–856.
- [100] C. Jung, Y.-H. Kim, Y. Yoon, and B.-R. Moon, “An adaptive method of hungarian mating schemes in genetic algorithms,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1413–1414.
- [101] S. Jungjit and A. Freitas, “A lexicographic multi-objective genetic algorithm for multi-label correlation based feature selection,” in *GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems)*, K. Kuber, M. Nakata, and K. Shafi, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 989–996.
- [102] R. Karimpour and G. Ruhe, “A search based approach towards robust optimization in software product line scoping,” in *GECCO Companion ’15: Proceedings of the Companion Publication of*

- the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Wiedera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1415–1416.
- [103] E. Keedwell, M. Johns, and D. Savic, “Spatial and temporal visualisation of evolutionary algorithm decisions in water distribution network optimisation,” in *6th Workshop on Visualisation Methods in Genetic and Evolutionary Computation (VizGEC 2015)*, D. Walker, R. Everson, and J. Fieldsend, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 941–948.
 - [104] K. Krynicki and J. Jaen, “Antelemnts: An extensible and scalable ant colony optimization middleware,” in *GECCO 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft’15)*, S. Wagner and M. Affenzeller, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1109–1116.
 - [105] U. Kumar, Jayadeva, and S. Soman, “Enhancing incremental ant colony algorithm for continuous global optimization,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Wiedera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1417–1418.
 - [106] J. Landsborough, S. Harding, and S. Fugate, “Removing the kitchen sink from software,” in *Genetic Improvement 2015 Workshop*, W. B. Langdon, D. R. White, and J. Petke, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 833–838.
 - [107] W. B. Langdon and M. Harman, “Grow and graft a better cuda pknotsrg for rna pseudoknot free energy calculation,” in *Genetic Improvement 2015 Workshop*, W. B. Langdon, D. R. White, and J. Petke, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 805–810.
 - [108] P. K. Lehre and P. S. Oliveto, “Runtime analysis of evolutionary algorithms: Basic introduction,” in *GECCO 2015 Introductory Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 121–136.
 - [109] D. Lessin and S. Risi, “Evolved virtual creatures with soft-body muscles: On a bio-mimetic path to meaningful morphological complexity,” in *GECCO 2015 Late-Breaking Abstracts*, D. Sudholt, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 761–762.
 - [110] H.-H. Li, Z.-G. Chen, Z.-H. Zhan, K.-J. Du, and J. Zhang, “Renumber coevolutionary multiswarm particle swarm optimization for multi-objective workflow scheduling on cloud computing environment,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Wiedera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1419–1420.
 - [111] L. Liang, H. Han, C. Zhaoquan, and H. Hui, “Using particle swarm large-scale optimization to improve sampling-based image matting,” in *6th Workshop on Visualisation Methods in Genetic and Evolutionary Computation (VizGEC 2015)*, D. Walker, R. Everson, and J. Fieldsend, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 957–961.

- [112] P. Liskowski, K. Krawiec, T. Helmuth, and L. Spector, “Comparison of semantic-aware selection methods in genetic programming,” in *GECCO 2015 Semantic Methods in Genetic Programming (SMGP’15) Workshop*, C. Johnson, K. Krawiec, A. Moraglio, and M. O’Neill, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1301–1307.
- [113] F. M. Lobato, V. W. Tadaiesky, I. M. Araujo, and A. L. de Santana, “An evolutionary missing data imputation method for pattern classification,” in *GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems)*, K. Kuber, M. Nakata, and K. Shafi, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1013–1019.
- [114] F. G. Lobo and M. Bazargani, “When hillclimbers beat genetic algorithms in multimodal optimization,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1421–1422.
- [115] P. Lopez-Garcia, E. Onieva, E. Osaba, A. D. Masegosa, and A. Perallos, “Hybridizing genetic algorithm with cross entropy for solving continuous functions,” in *GECCO 2015 Late-Breaking Abstracts*, D. Sudholt, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 763–764.
- [116] R. E. Lopez-Herrejon, L. Linsbauer, W. K. Assuncao, S. Fischer, S. R. Vergilio, and A. Egyed, “Genetic improvement for software product lines: An overview and a roadmap,” in *Genetic Improvement 2015 Workshop*, W. B. Langdon, D. R. White, and J. Petke, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 823–830.
- [117] J. Machado, R. Neves, and N. Horta, “Developing multi-time frame trading rules with a trend following strategy, using ga,” in *GECCO 2015 Late-Breaking Abstracts*, D. Sudholt, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 765–766.
- [118] Q. Madera, M. Garcia-Valdez, O. Castillo, and A. Mancilla, “A method based on interactive evolutionary computation for increasing the effectiveness of advertisement texts,” in *GECCO’15 Student Workshop*, T. Tusar and B. Naujoks, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1225–1228.
- [119] D. Margarida and C. H. Antunes, “Multi-objective optimization of sensor placement to detect contamination in water distribution networks,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1423–1424.
- [120] L. Mariot and A. Leporati, “Heuristic search by particle swarm optimization of boolean functions for cryptographic applications,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1425–1426.
- [121] L. Marti, C. Grimme, P. Kerschke, H. Trautmann, and G. Rudolph, “Averaged hausdorff approximations of pareto fronts based on multiobjective estimation of distribution algorithms,”

- in *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1427–1428.
- [122] M. A. Martin, A. R. Bertels, and D. R. Tauritz, “Asynchronous parallel evolutionary algorithms: Leveraging heterogeneous fitness evaluation times for scalability and elitist parsimony pressure,” in *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1429–1430.
- [123] M. A. Martin and D. R. Tauritz, “Hyper-heuristics: A study on increasing primitive-space,” in *GECCO 2015 5th Workshop on Evolutionary Computation for the Automated Design of Algorithms (ECADA'15)*, J. Woodward, D. Tauritz, and M. Lopez-Ibanez, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1051–1058.
- [124] J. Martinez, G. Rossi, T. Ziadi, T. F. D. A. Bissyande, J. Klein, and Y. Le Traon, “Estimating and predicting average likability on computer-generated artwork variants,” in *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1431–1432.
- [125] J. P. Martins and A. C. Delbem, “Handling crossover bias to improve diversity in multiobjective evolutionary optimization,” in *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1433–1434.
- [126] J. A. McCall, L. A. Christie, and A. E. Brownlee, “Generating easy and hard problems using the proximate optimality principle,” in *GECCO 2015 Late-Breaking Abstracts*, D. Sudholt, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 767–768.
- [127] D. Medernach, J. Fitzgerald, R. M. A. Azad, and C. Ryan, “Wave: A genetic programming approach to divide and conquer,” in *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1435–1436.

- [128] —, “Wave: Incremental erosion of residual error,” in *GECCO 2015 Semantic Methods in Genetic Programming (SMGP’15) Workshop*, C. Johnson, K. Krawiec, A. Moraglio, and M. O’Neill, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1285–1292.
- [129] H. D. Menendez and D. Camacho, “Mogcla: A multi-objective genetic clustering algorithm for large data analysis,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Wiedera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1437–1438.
- [130] J. J. Merelo-Guervos, “Low or no cost distributed evolutionary computation,” in *GECCO 2015 Specialized Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 703–706.
- [131] J. J. Merelo-Guervos and P. Garcia-Sanchez, “Designing and modeling a browser-based distributed evolutionary computation system,” in *GECCO 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft’15)*, S. Wagner and M. Affenzeller, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1117–1124.
- [132] R. Miikkulainen, “Evolving neural networks,” in *GECCO 2015 Introductory Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 137–161.
- [133] J. Miller and H. Broersma, “Computational matter: Evolving computational solutions in materials,” in *GECCO 2015 Late-Breaking Abstracts*, D. Sudholt, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 769–770.
- [134] J. Miller and A. Turner, “Cartesian genetic programming,” in *GECCO 2015 Introductory Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 179–198.
- [135] S. Mirjalili and A. Lewis, “A reliable and computationally cheap approach for finding robust optimal solutions,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Wiedera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1439–1440.
- [136] V. Mironovich and M. Buzdalov, “Hard test generation for maximum flow algorithms with the fast crossover-based evolutionary algorithm,” in *GECCO’15 Student Workshop*, T. Tusar and B. Naujoks, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1229–1232.
- [137] M. Miyakawa, K. Takadama, and H. Sato, “Control of crossed genes ratio for directed mating in evolutionary constrained multi-objective optimization,” in *GECCO’15 Student Workshop*, T. Tusar and B. Naujoks, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1201–1204.
- [138] A. Moraglio and K. Krawiec, “Semantic genetic programming,” in *GECCO 2015 Advanced Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 603–627.
- [139] S. S. Mousavi Astarabadi and M. M. Ebadzadeh, “Avoiding overfitting in symbolic regression using the first order derivative of gp trees,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Wiedera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1441–1442.

- [140] V. Mrazek, Z. Vasicek, and L. Sekanina, “Evolutionary approximation of software for embedded systems: Median function,” in *Genetic Improvement 2015 Workshop*, W. B. Langdon, D. R. White, and J. Petke, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 795–801.
- [141] Z. Mu and H. H. Hoos, “Empirical scaling analyser: An automated system for empirical analysis of performance scaling,” in *GECCO 2015 Late-Breaking Abstracts*, D. Sudholt, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 771–772.
- [142] R. Mueller-Bady, R. Gad, M. Kappes, and I. Medina-Bulo, “Using genetic algorithms for deadline-constrained monitor selection in dynamic computer networks,” in *SecDef’2015 - Workshop on genetic and evolutionary computation in defense, security and risk management*, F. W. Moore and N. Zincir-Heywood, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 867–874.
- [143] W. n. Browne, “Back to the future: Learning classifier systems as cognitive systems,” in *GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems)*, K. Kuber, M. Nakata, and K. Shafi, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1037–1037.
- [144] A. Najar, O. Sigaud, and M. Chetouani, “Socially guided xcs: Using teaching signals to boost learning,” in *GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems)*, K. Kuber, M. Nakata, and K. Shafi, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1021–1028.
- [145] A. J. Nebro, J. J. Durillo, and M. Vergne, “Redesigning the jmetal multi-objective optimization framework,” in *GECCO 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft’15)*, S. Wagner and M. Affenzeller, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1093–1100.
- [146] F. Neumann and A. M. Sutton, “Parameterized complexity analysis of evolutionary algorithms,” in *GECCO 2015 Advanced Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 435–450.
- [147] S. S. Nielsen, G. Danoy, P. Bouvry, and E.-G. Talbi, “Nk landscape instances mimicking the protein inverse folding problem towards future benchmarks,” in *GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology*, J. Santos, J. Handl, and A. Shehu, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 915–921.
- [148] H. E. Nouri, O. Belkahla Driss, and K. Ghedira, “Metaheuristics based on clustering in a holonic multiagent model for the flexible job shop problem,” in *GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems)*, K. Kuber, M. Nakata, and K. Shafi, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 997–1004.
- [149] A.-M. Oprescu, A. (Vintila) Filip, and T. Kielmann, “Fast pareto front approximation for cloud instance pool optimization,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1443–1444.
- [150] U.-M. O’Reilly, “Genetic programming: A tutorial introduction,” in *GECCO 2015 Introductory Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 3–19.
- [151] P. Overbury and L. Berthouze, “Using novelty-biased ga to sample diversity in graphs satisfying constraints,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta,

- F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1445–1446.
- [152] O. Ozkan, M. Ermis, and I. Bekmezci, “A hybrid matheuristic approach for designing reliable wireless multimedia sensor networks,” in *SecDef’2015 - Workshop on genetic and evolutionary computation in defense, security and risk management*, F. W. Moore and N. Zincir-Heywood, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 875–882.
- [153] D. Pallez, M. Serrurier, C. da Costa Pereira, G. Fusco, and C. Cao, “Social specialization of space: Clustering households on the french riviera,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1447–1448.
- [154] J. P. Papa, G. H. Rosa, K. A. Costa, N. A. Marana, W. Scheirer, and D. D. Cox, “On the model selection of bernoulli restricted boltzmann machines through harmony search,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1449–1450.
- [155] G. Pappa, A. Simoes, D. Sudholt, W. B. Langdon, D. R. White, J. Petke, F. W. Moore, N. Zincir-Heywood, J. Santos, J. Handl, A. Shehu, D. Walker, R. Everson, J. Fieldsend, K. Kuber, M. Nakata, K. Shafi, J. Woodward, D. Tauritz, M. Lopez-Ibanez, S. Wagner, M. Affenzeller, Y. Akimoto, A. Auger, D. Brockhoff, N. Hansen, O. Mersmann, P. Posik, T. Tusar, B. Naujoks, A. Prieto, N. Bredeche, E. Haasdijk, C. Simons, J. Swan, K. Krawiec, J. Smith, C. Johnson, A. Moraglio, M. O’Neill, S. L. Smith, S. Cagnoni, and R. M. Patton, Eds., *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, Madrid, Spain, 11-15 July 2015. [Online]. Available: <http://dl.acm.org/citation.cfm?id=2739480>
- [156] J. Park, S. Nguyen, M. Zhang, and M. Johnston, “A single population genetic programming based ensemble learning approach to job shop scheduling,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1451–1452.
- [157] A. Patelli, N. Bencomo, A. Ekart, H. Goldingay, and P. Lewis, “Two-b or not two-b?: Design patterns for hybrid metaheuristics,” in *GECCO 2015 2nd Workshop on Metaheuristic Design Patterns (MetaDeeP’15)*, C. Simons, J. Swan, K. Krawiec, D. Tauritz, and J. Smith, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1269–1274.
- [158] J. C. Pereira and F. G. Lobo, “Parameter-less evolutionary portfolio: First experiments,” in *GECCO 2015 Late-Breaking Abstracts*, D. Sudholt, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 773–774.

- [159] T. Perry and M. Bader-El-Den, “Imbalanced classification using genetically optimized random forests,” in *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1453–1454.
- [160] I. Petrova and A. Buzdalova, “Selection of auxiliary objectives in the travelling salesman problem using reinforcement learning,” in *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1455–1456.
- [161] S. Picek, J. F. Miller, D. Jakobovic, and L. Batina, “Cartesian genetic programming approach for generating substitution boxes of different sizes,” in *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1457–1458.
- [162] P. Posik and P. Baudis, “Dimension selection in axis-parallel brent-step method for black-box optimization of separable continuous functions,” in *Black Box Optimization Benchmarking (BBOB 2015) Workshop*, Y. Akimoto, A. Auger, D. Brockhoff, N. Hansen, O. Mersmann, and P. Posik, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1151–1158.
- [163] M. Preuss, “Multimodal optimization,” in *GECCO 2015 Introductory Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 293–312.
- [164] M. Probst, “Denoising autoencoders for fast combinatorial black box optimization,” in *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1459–1460.
- [165] P. Rabanal, I. Rodriguez, and F. Rubio, “On the uselessness of finite benchmarks to assess evolutionary and swarm methods,” in *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1461–1462.
- [166] A. Ramirez, J. R. Romero, and S. Ventura, “An extensible jclec-based solution for the implementation of multi-objective evolutionary algorithms,” in *GECCO 2015 Workshop on*

- [167] C. Ramirez-Atencia, G. Bello-Orgaz, M. D. R-Moreno, and D. Camacho, “A hybrid moga-csp for multi-uav mission planning,” in *GECCO'15 Student Workshop*, T. Tusar and B. Naujoks, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1205–1208.
- [168] A. Raß, M. Schmitt, and R. Wanka, “Explanation of stagnation at points that are not local optima in particle swarm optimization by potential analysis,” in *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1463–1464.
- [169] M.-C. Riff and E. Montero, “A collaborative strategy to reduce initial setup requirements of paramils using evoca,” in *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1467–1468.
- [170] D. Rivero, E. Fernandez-Blanco, J. Dorado, and A. Pazos, “Classification of two-channel signals by means of genetic programming,” in *GECCO 2015 Medical Applications of Genetic and Evolutionary Computation (MedGEC'15) Workshop*, S. L. Smith, S. Cagnoni, and R. M. Patton, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1319–1325.
- [171] N. Rojas, E. Montero, and M.-C. Riff, “Using anti-pheromone to identify core objects for multidimensional knapsack problems: A two-step ants based approach,” in *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1469–1470.
- [172] F. Rothlauf, “Representations for evolutionary algorithms,” in *GECCO 2015 Introductory Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 345–366.
- [173] A. Runka and T. White, “Evolving neurocontrollers for the control of information diffusion in social networks,” in *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1471–1472.
- [174] G. Rush, D. R. Tauritz, and A. D. Kent, “Coevolutionary agent-based network defense lightweight event system (candles),” in *SecDef'2015 - Workshop on genetic and evolutionary computation*

- in defense, security and risk management*, F. W. Moore and N. Zincir-Heywood, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 859–866.
- [175] P. Ryser-Welch, J. F. Miller, and S. Asta, “Generating human-readable algorithms for the travelling salesman problem using hyper-heuristics,” in *GECCO 2015 5th Workshop on Evolutionary Computation for the Automated Design of Algorithms (ECADA’15)*, J. Woodward, D. Tauritz, and M. Lopez-Ibanez, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1067–1074.
 - [176] —, “Evolutionary cross-domain hyper-heuristics,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1473–1474.
 - [177] A. Salah and E. Hart, “Grid diversity operator for some population-based optimization algorithms,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1475–1476.
 - [178] R. Santana, A. Mendiburu, and J. A. Lozano, “Multi-objective nm-landscapes,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1477–1478.
 - [179] V. Santucci, M. Baiocchi, and A. Milani, “An algebraic differential evolution for the linear ordering problem,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1479–1480.
 - [180] E. Sapin, K. De Jong, and A. Shehu, “Mapping multiple minima in protein energy landscapes with evolutionary algorithms,” in *GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology*, J. Santos, J. Handl, and A. Shehu, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 923–927.
 - [181] H. Sato, M. Miyakawa, and E. Perez-Cortes, “A parallel moea/d generating solutions in minimum overlapped update ranges of solutions,” in *GECCO 2015 Late-Breaking Abstracts*, D. Sudholt, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 775–776.
 - [182] A. Scheibenpflug, A. Beham, M. Kommenda, J. Karder, S. Wagner, and M. Affenzeller, “Simplifying problem definitions in the heuristiclab optimization environment,” in *GECCO 2015 Workshop on Evolutionary Computation Software Systems (EvoSoft’15)*, S. Wagner and M. Affenzeller, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1101–1108.

- [183] J. Schmitt, S. Seufert, C. Zoubek, and H. Koestler, “Potential-field-based unit behavior optimization for balancing in starcraft ii,” in *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1481–1482.
- [184] E. M. Schulte, W. Weimer, and S. Forrest, “Repairing cots router firmware without access to source code or test suites: A case study in evolutionary software repair,” in *Genetic Improvement 2015 Workshop*, W. B. Langdon, D. R. White, and J. Petke, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 847–854.
- [185] E. O. Scott and J. K. Bassett, “Learning genetic representations for classes of real-valued optimization problems,” in *GECCO 2015 5th Workshop on Evolutionary Computation for the Automated Design of Algorithms (ECADA '15)*, J. Woodward, D. Tauritz, and M. Lopez-Ibanez, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1075–1082.
- [186] E. O. Scott and K. A. De Jong, “Evaluation-time bias in asynchronous evolutionary algorithms,” in *GECCO'15 Student Workshop*, T. Tutar and B. Naujoks, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1209–1212.
- [187] A. Shehu and K. De Jong, “Evolutionary algorithms for protein structure modeling,” in *GECCO 2015 Advanced Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 533–545.
- [188] G. Sher, “Momentum enhanced neuroevolution,” in *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1483–1484.
- [189] K. Sim and E. Hart, “A novel heuristic generator for jssp using a tree-based representation of dispatching rules,” in *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1485–1486.
- [190] S. L. Smith, “Medical applications of evolutionary computation,” in *GECCO 2015 Specialized Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 651–679.
- [191] A. M. Soares, B. J. Fernandes, and C. J. Bastos-Filho, “Pyramidal neural networks with variable receptive fields designed by genetic algorithms,” in *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1487–1488.

- [192] L. Spector, “Expressive genetic programming,” in *GECCO 2015 Advanced Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 409–434.
- [193] K. O. Stanley, “Generative and developmental systems tutorial,” in *GECCO 2015 Advanced Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 503–532.
- [194] T. M. Stehling, S. R. DE Souza, and M. F. De Franca Filho, “A hybrid particle swarm optimization for solving vehicle routing problem with time windows,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1489–1490.
- [195] A. Steyven, E. Hart, and B. Paechter, “The cost of communication: Environmental pressure and survivability in medea,” in *GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR’15) Workshop*, A. Prieto, N. Bredeche, and E. Haasdijk, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1239–1240.
- [196] C. Stoean, R. Stoean, A. Sandita, C. Mesina, C. L. Gruia, and D. Ciobanu, “Evolutionary search for an accurate contour segmentation in histopathological images,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1491–1492.
- [197] T. Stuetzle and M. Lopez-Ibanez, “Automatic (offline) configuration of algorithms,” in *GECCO 2015 Specialized Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 681–702.
- [198] D. Sudholt, “Theory of swarm intelligence,” in *GECCO 2015 Advanced Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 451–471.
- [199] Y. Sun, M. Kirley, and S. K. Halgamuge, “On the selection of decomposition methods for large scale fully non-separable problems,” in *GECCO’15 Student Workshop*, T. Tusar and B. Naujoks, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1213–1216.
- [200] G. Sungu and B. Boz, “An evolutionary algorithm for weighted graph coloring problem,” in *GECCO’15 Student Workshop*, T. Tusar and B. Naujoks, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1233–1236.
- [201] K. Takadama, “A potential of evolutionary rule-based machine learning for real world applications,” in *GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems)*, K. Kuber, M. Nakata, and K. Shafi, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1039–1040.
- [202] R. Tanabe, “A note on multi-funnel functions for expensive optimization scenario,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1493–1494.

- [203] D. Thierens and P. A. Bosman, “Model-based evolutionary algorithms,” in *GECCO 2015 Introductory Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 93–120.
- [204] M. Tomassini, “Introduction to complex networks,” in *GECCO 2015 Introductory Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 163–178.
- [205] P. Trueba, A. Prieto, F. Bellas, and R. J. Duro, “Embodied evolution for collective indoor surveillance and location,” in *GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR’15) Workshop*, A. Prieto, N. Bredeche, and E. Haasdijk, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1241–1242.
- [206] G. A. Trunfio, “An effective approach for adapting the size of subcomponents in large-scale optimization with cooperative coevolution,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1495–1496.
- [207] W. W. Tsang and H. Y. Lau, “A grid-facilitated ais-based network scheme for many-objective optimization,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1497–1498.
- [208] S. Tsutsui and N. Fujimoto, “A comparative study of synchronization of parallel aco on multi-core processor,” in *GECCO 2015 Late-Breaking Abstracts*, D. Sudholt, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 777–778.
- [209] A. J. Turner and J. F. Miller, “Recurrent cartesian genetic programming applied to series forecasting,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1499–1500.
- [210] R. Ugolotti and S. Cagnoni, “Automatic tuning of standard pso versions,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1501–1502.
- [211] R. Urbanowicz and W. Browne, “Introducing rule-based machine learning: A practical guide,” in *GECCO 2015 Introductory Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 263–292.

- [212] R. Urbanowicz, N. Ramanand, and J. Moore, “Continuous endpoint data mining with exstracs: A supervised learning classifier system,” in *GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems)*, K. Kuber, M. Nakata, and K. Shafi, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1029–1036.
- [213] N. B. Urquhart, E. Hart, and A. Judson, “Multi-modal employee routing with time windows in an urban environment,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1503–1504.
- [214] D. Varela and J. Santos, “Combination of differential evolution and fragment-based replacements for protein structure prediction,” in *GECCO 2015 Workshop on Evolutionary Computation in Computational Structural Biology*, J. Santos, J. Handl, and A. Shehu, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 911–914.
- [215] D. V. Vargas, H. Takano, and J. Murata, “The relationship between (un)fractured problems and division of input space,” in *GECCO 2015 Evolutionary Rule-based Machine Learning (formerly the International Workshop on Learning Classifier Systems)*, K. Kuber, M. Nakata, and K. Shafi, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 981–987.
- [216] Z. Vasicek and L. Sekanina, “Evolutionary approximation of complex digital circuits,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1505–1506.
- [217] J. M. Velasco, S. Winkler, J. I. Hidalgo, O. Garnica, J. Lanchares, J. M. Colmenar, E. Maqueda, M. Botella, and J.-A. Rubio, “Data-based identification of prediction models for glucose,” in *GECCO 2015 Medical Applications of Genetic and Evolutionary Computation (MedGEC’15) Workshop*, S. L. Smith, S. Cagnoni, and R. M. Patton, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1327–1334.
- [218] P. Verbancsics, “Impact of speciation heuristic on crossover and search in neat,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1509–1510.
- [219] P. Verbancsics and J. Harguess, “Classifying maritime vessels from satellite imagery with hyperneat,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1507–1508.

- [220] C. von Luecken, H. Monzon, C. Brizuela, and B. Baran, “Dimensionality reduction in many-objective problems combining pca and spectral clustering,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1511–1512.
- [221] M. D. Wagdy and J. C. Bongard, “Crowdseeding robot design,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1513–1514.
- [222] D. J. Walker, “Visualising multi-objective populations with treemaps,” in *6th Workshop on Visualisation Methods in Genetic and Evolutionary Computation (VizGEC 2015)*, D. Walker, R. Everson, and J. Fieldsend, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 963–970.
- [223] C. Watkins and Y. Buttkewitz, “Efficient sampling with small populations: a genetic algorithm satisfying detailed balance,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1517–1518.
- [224] M. Weiss Cohen, A. Dahan, and I. Kaspi, “Software system for container vessel stowage planning using genetic algorithm,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1519–1520.
- [225] D. R. White and J. Singer, “Rethinking genetic improvement programming,” in *Genetic Improvement 2015 Workshop*, W. B. Langdon, D. R. White, and J. Petke, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 845–846.
- [226] D. R. White, S. Yoo, and J. Singer, “The programming game: Evaluating mcts as an alternative to gp for symbolic regression,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1521–1522.

- [227] D. Whitley, “Blind no more: Constant time non-random improving moves and exponentially powerful recombination,” in *GECCO 2015 Advanced Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 391–407.
- [228] J. R. Woodward and D. R. Tauritz, “Hyper-heuristics,” in *GECCO 2015 Introductory Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 199–230.
- [229] Y.-M. Wu, L.-Y. Chen, P.-M. Lee, and T.-C. Hsiao, “Enable the xcs to dynamically learn multiple problems: A sensor tagging approach,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1523–1524.
- [230] J. Xie, Y. Mei, and A. Song, “Evolving self-adaptive tabu search algorithm for storage location assignment problems,” in *GECCO 2015 Late-Breaking Abstracts*, D. Sudholt, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 779–780.
- [231] S. Yang, “Evolutionary computation for dynamic optimization problems,” in *GECCO 2015 Advanced Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 629–649.
- [232] K. Yeboah-Antwi and B. Baudry, “Embedding adaptivity in software systems using the ecself framework,” in *Genetic Improvement 2015 Workshop*, W. B. Langdon, D. R. White, and J. Petke, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 839–844.
- [233] L. Yliniemi and K. Tumer, “Complete multi-objective coverage with paccet,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1525–1526.
- [234] P. Zahadat, H. Hamann, and T. Schmickl, “Evolving diverse collective behaviors independent of swarm density,” in *GECCO 2015 Evolving Collective Behaviors in Robotics (ECBR’15) Workshop*, A. Prieto, N. Bredeche, and E. Haasdijk, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1245–1246.
- [235] J. Zegklitz and P. Posik, “Model selection and overfitting in genetic programming: Empirical study,” in *GECCO Companion ’15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1527–1528.
- [236] —, “Symbolic regression by grammar-based multi-gene genetic programming,” in *GECCO’15 Student Workshop*, T. Tusar and B. Naujoks, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1217–1220.
- [237] M. Zhang and S. Cagnoni, “Evolutionary image analysis, signal processing and pattern recognition,” in *GECCO 2015 Advanced Tutorials*, A. Simoes, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 473–502.

- [238] M. Zhang and Y. Deng, “An improved artificial fish swarm algorithm in image segmentation application,” in *GECCO 2015 Late-Breaking Abstracts*, D. Sudholt, Ed. Madrid, Spain: ACM, 11-15 July 2015, pp. 781–782.
- [239] J. Zheng, H. Bai, R. Shen, and M. Li, “A comparative study use of otl for many-objective optimization,” in *GECCO Companion '15: Proceedings of the Companion Publication of the 2015 on Genetic and Evolutionary Computation Conference*, S. Silva, A. I. Esparcia-Alcazar, M. Lopez-Ibanez, S. Mostaghim, J. Timmis, C. Zarges, L. Correia, T. Soule, M. Giacobini, R. Urbanowicz, Y. Akimoto, T. Glasmachers, F. Fernandez de Vega, A. Hoover, P. Larranaga, M. Soto, C. Cotta, F. B. Pereira, J. Handl, J. Koutnik, A. Gaspar-Cunha, H. Trautmann, J.-B. Mouret, S. Risi, E. Costa, O. Schuetze, K. Krawiec, A. Moraglio, J. F. Miller, P. Widera, S. Cagnoni, J. Merelo, E. Hart, L. Trujillo, M. Keswsentini, G. Ochoa, F. Chicano, and C. Doerr, Eds. Madrid, Spain: ACM, 11-15 July 2015, pp. 1411–1412.