

## Список литературы

- [1] S. Hutterer, M. Affenzeller, and F. Auinger, Evolutionary optimization of multi-agent control strategies for electric vehicle charging, in *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*, edited by A.-A. Tantar, E. Tantar, and P. A. Bosman, pp. 3–10, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [2] J. Toutouh and E. Alba, Green olrs in vanets with differential evolution, in *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*, edited by A.-A. Tantar, E. Tantar, and P. A. Bosman, pp. 11–18, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [3] D. H. Phan *et al.*, Evolutionary multiobjective optimization for green clouds, in *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*, edited by A.-A. Tantar, E. Tantar, and P. A. Bosman, pp. 19–26, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [4] E. S. Cavalcante, A. L. Aquino, G. L. Pappa, and A. A. Loureiro, Roadside unit deployment for information dissemination in a vanet: an evolutionary approach, in *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*, edited by A.-A. Tantar, E. Tantar, and P. A. Bosman, pp. 27–34, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [5] P. Kromer *et al.*, Evolutionary prediction of photovoltaic power plant energy production, in *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*, edited by A.-A. Tantar, E. Tantar, and P. A. Bosman, pp. 35–42, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [6] N. Padhye, Evolutionary approaches for real world applications in 21st century, in *GECCO 2012 Real world applications of evolutionary computation*, edited by N. Padhye *et al.*, pp. 43–48, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [7] N. Lourenço, F. Pereira, and E. Costa, Evolving evolutionary algorithms, in *GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms*, edited by G. L. Pappa, J. Woodward, M. R. Hyde, and J. Swan, pp. 51–58, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [8] B. W. Goldman and D. R. Tauritz, Supportive coevolution, in *GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms*, edited by G. L. Pappa, J. Woodward, M. R. Hyde, and J. Swan, pp. 59–66, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [9] J. R. Woodward and J. Swan, The automatic generation of mutation operators for genetic algorithms, in *GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms*, edited by G. L. Pappa, J. Woodward, M. R. Hyde, and J. Swan, pp. 67–74, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [10] K. I. Harrington, L. Spector, J. B. Pollack, and U.-M. O'Reilly, Autoconstructive evolution for structural problems, in *GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms*, edited by G. L. Pappa, J. Woodward, M. R. Hyde, and J. Swan, pp. 75–82, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [11] F.-M. De Rainville, F.-A. Fortin, M.-A. Gardner, M. Parizeau, and C. Gagné, Deap: a python framework for evolutionary algorithms, in *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, edited by S. Wagner and M. Affenzeller, pp. 85–92, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [12] F. Otero, T. Castle, and C. Johnson, Epochx: genetic programming in java with statistics and event monitoring, in *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, edited by S. Wagner and M. Affenzeller, pp. 93–100, Philadelphia, Pennsylvania, USA, 2012, ACM.

- [13] M. Kommenda, G. Kronberger, S. Wagner, S. Winkler, and M. Affenzeller, On the architecture and implementation of tree-based genetic programming in heuristiclab, in *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, edited by S. Wagner and M. Affenzeller, pp. 101–108, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [14] J. J. Merelo, C. M. Fernandes, A. M. Mora, and A. I. Esparcia, Sofea: a pool-based framework for evolutionary algorithms using couchdb, in *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, edited by S. Wagner and M. Affenzeller, pp. 109–116, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [15] Y. S. Nashed, R. Ugolotti, P. Mesejo, and S. Cagnoni, libcudaoptimize: an open source library of gpu-based metaheuristics, in *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, edited by S. Wagner and M. Affenzeller, pp. 117–124, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [16] A. Beham *et al.*, Integration of flexible interfaces in optimization software frameworks for simulation-based optimization, in *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, edited by S. Wagner and M. Affenzeller, pp. 125–132, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [17] B. D. Connelly, L. Zaman, and P. K. McKinley, The seeds platform for evolutionary and ecological simulations, in *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, edited by S. Wagner and M. Affenzeller, pp. 133–140, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [18] A. Scheibenpflug, S. Wagner, E. Pitzer, and M. Affenzeller, Optimization knowledge base: an open database for algorithm and problem characteristics and optimization results, in *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, edited by S. Wagner and M. Affenzeller, pp. 141–148, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [19] F. Dobsław, Input: the intelligent parameter utilization tool, in *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, edited by S. Wagner and M. Affenzeller, pp. 149–156, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [20] T. Liao, D. Molina, T. Stutzle, M. A. Montes de Oca, and M. Dorigo, An aco algorithm benchmarked on the bbob noiseless function testbed, in *Black box optimization benchmarking 2012 (BBOB 2012)*, edited by A. Auger *et al.*, pp. 159–166, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [21] Y.-C. Chuang and C.-T. Chen, Black-box optimization benchmarking for noiseless function testbed using a direction-based rcga, in *Black box optimization benchmarking 2012 (BBOB 2012)*, edited by A. Auger *et al.*, pp. 167–174, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [22] I. Loshchilov, M. Schoenauer, and M. Sebag, Black-box optimization benchmarking of ipop-saacm-es and bipop-saacm-es on the bbob-2012 noiseless testbed, in *Black box optimization benchmarking 2012 (BBOB 2012)*, edited by A. Auger *et al.*, pp. 175–182, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [23] V. V. de Melo, Benchmarking the multi-view differential evolution on the noiseless bbob-2012 function testbed, in *Black box optimization benchmarking 2012 (BBOB 2012)*, edited by A. Auger *et al.*, pp. 183–188, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [24] P. Pošík and V. Klema, Benchmarking the differential evolution with adaptive encoding on noiseless functions, in *Black box optimization benchmarking 2012 (BBOB 2012)*, edited by A. Auger *et al.*, pp. 189–196, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [25] T. Schaul, Benchmarking separable natural evolution strategies on the noiseless and noisy black-box optimization testbeds, in *Black box optimization benchmarking 2012 (BBOB 2012)*, edited by A. Auger *et al.*, pp. 205–212, Philadelphia, Pennsylvania, USA, 2012, ACM.

- [26] C. Voglis, G. S. Piperagkas, K. E. Parsopoulos, D. G. Papageorgiou, and I. E. Lagaris, Memsode: an empirical assessment of local search algorithm impact on a memetic algorithm using noiseless testbed, in *Black box optimization benchmarking 2012 (BBOB 2012)*, edited by A. Auger *et al.*, pp. 245–252, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [27] D. Brockhoff, A. Auger, and N. Hansen, On the effect of mirroring in the ipop active cma-es on the noiseless bboob testbed, in *Black box optimization benchmarking 2012 (BBOB 2012)*, edited by A. Auger *et al.*, pp. 277–284, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [28] X.-F. Zhang, M. Koshimura, H. Fujita, and R. Hasegawa, Hybrid particle swarm optimization and convergence analysis for scheduling problems, in *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, edited by F. Stonedahl and R. Riolo, pp. 307–314, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [29] E. Shafiee and E. Zechman, Integrating evolutionary computation and sociotechnical simulation for flushing contaminated water distribution systems, in *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, edited by F. Stonedahl and R. Riolo, pp. 315–322, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [30] C. J. Woodard and E. K. Clemons, Modeling technology evolution using generalized genotype-phenotype maps, in *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, edited by F. Stonedahl and R. Riolo, pp. 323–330, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [31] R. R. van Lon, T. Holvoet, G. Vanden Berghe, T. Wenseleers, and J. Branke, Evolutionary synthesis of multi-agent systems for dynamic dial-a-ride problems, in *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, edited by F. Stonedahl and R. Riolo, pp. 331–336, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [32] S. van Berkel, D. Turi, A. Pruteanu, and S. Dulman, Automatic discovery of algorithms for multi-agent systems, in *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, edited by F. Stonedahl and R. Riolo, pp. 337–344, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [33] A. P. Ozisik and K. I. Harrington, The effects of tags on the evolution of honest signaling, in *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, edited by F. Stonedahl and R. Riolo, pp. 345–352, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [34] S. Doncieux, Y. Jin, and J.-B. Mouret, Evo-devo-robo workshop program, in *GECCO 2012 Evolutionary developmental robotics*, edited by S. Doncieux, Y. Jin, and J.-B. Mouret, pp. 355–356, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [35] M. Joachimczak, T. Kowaliw, R. Doursat, and B. Wróbel, Evolving morphologies and controllers for soft-bodied multicellular animats using gene regulatory networks and artificial embryogenesis, in *GECCO 2012 Evolutionary developmental robotics*, edited by S. Doncieux, Y. Jin, and J.-B. Mouret, pp. 357–360, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [36] M. E. Palmer and A. K. Chou, An artificial visual cortex drives behavioral evolution in co-evolved predator and prey robots, in *GECCO 2012 Evolutionary developmental robotics*, edited by S. Doncieux, Y. Jin, and J.-B. Mouret, pp. 361–364, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [37] M. Rudinac, B. Lenseigne, and P. P. Jonker, Empirical mode decomposition for saliency detection, in *GECCO 2012 Evolutionary developmental robotics*, edited by S. Doncieux, Y. Jin, and J.-B. Mouret, pp. 365–368, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [38] C. Ollion, T. Pinville, and S. Doncieux, Emergence of memory in neuroevolution: impact of selection pressures, in *GECCO 2012 Evolutionary developmental robotics*, edited by S. Doncieux, Y. Jin, and J.-B. Mouret, pp. 369–372, Philadelphia, Pennsylvania, USA, 2012, ACM.

- [39] P. Lee, Y. Teng, and T.-C. Hsiao, Xcsf for prediction on emotion induced by image based on dimensional theory of emotion, in *Fifteenth international workshop on learning classifier systems (ICWLS)*, edited by D. Loiacono, A. Orriols-Puig, and R. Urbanowicz, pp. 375–382, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [40] R. Tinós, Analysing fitness landscape changes in evolutionary robots, in *1st workshop on Understanding Problems (GECCO-UP)*, edited by K. McClymont and E. Keedwell, pp. 385–392, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [41] E. Pitzer, A. Beham, and M. Affenzeller, Generic hardness estimation using fitness and parameter landscapes applied to robust taboo search and the quadratic assignment problem, in *1st workshop on Understanding Problems (GECCO-UP)*, edited by K. McClymont and E. Keedwell, pp. 393–400, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [42] L. Spector, Assessment of problem modality by differential performance of lexibase selection in genetic programming: a preliminary report, in *1st workshop on Understanding Problems (GECCO-UP)*, edited by K. McClymont and E. Keedwell, pp. 401–408, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [43] D. Garrett, A call for collaborative landscape analysis, in *1st workshop on Understanding Problems (GECCO-UP)*, edited by K. McClymont and E. Keedwell, pp. 409–416, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [44] E. Tosch and L. Spector, Achieving cosmos: a metric for determining when to give up and when to reach for the stars, in *1st workshop on Understanding Problems (GECCO-UP)*, edited by K. McClymont and E. Keedwell, pp. 417–424, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [45] K. McClymont, D. Walker, and M. Dupenois, The lay of the land: a brief survey of problem understanding, in *1st workshop on Understanding Problems (GECCO-UP)*, edited by K. McClymont and E. Keedwell, pp. 425–432, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [46] C. M. Fernandes, A. Mora, J. J. Merelo, F. Fernández, and A. Rosa, Generating colored 2-dimensional representations of sleep eeg with the kants clustering algorithm, in *GECCO 2012 Visualisation methods for genetic and evolutionary computation (VizGEC)*, edited by R. Everson, J. Fieldsend, and D. Walker, pp. 435–442, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [47] D. Walker, J. Fieldsend, and R. Everson, Visualising many-objective populations, in *GECCO 2012 Visualisation methods for genetic and evolutionary computation (VizGEC)*, edited by R. Everson, J. Fieldsend, and D. Walker, pp. 451–458, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [48] M. A. Kaliakatsos-Papakostas, A. Floros, N. Kanellopoulos, and M. N. Vrahatis, Genetic evolution of l and fl-systems for the production of rhythmic sequences, in *GECCO 2012 Evolutionary music*, edited by F. Fernandez de Vega and C. Cotta, pp. 461–468, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [49] B. Rafael, M. Affenzeller, and S. Wagner, An adaption of the schema theorem to various crossover and mutation operators for a music segmentation problem, in *GECCO 2012 Evolutionary music*, edited by F. Fernandez de Vega and C. Cotta, pp. 469–476, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [50] G. Reis, F. Fernández, and A. Ferreira, Evolutionary algorithms and automatic transcription of music, in *GECCO 2012 Evolutionary music*, edited by F. Fernandez de Vega and C. Cotta, pp. 477–484, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [51] N. Aleb and S. Kechid, A new framework for scalable genetic programming, in *GECCO 2012 Symbolic regression and modeling workshop*, edited by S. Gustafson and E. Vladislavleva, pp. 487–492, Philadelphia, Pennsylvania, USA, 2012, ACM.

- [52] E. Hemberg, K. Veeramachaneni, and U.-M. O'Reilly, Graphical models and what they reveal about gp when it solves a symbolic regression problem, in *GECCO 2012 Symbolic regression and modeling workshop*, edited by S. Gustafson and E. Vladislavleva, pp. 493–494, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [53] T. Bartz-Beielstein, O. Flasch, and M. Zaefferer, Sequential parameter optimization for symbolic regression, in *GECCO 2012 Symbolic regression and modeling workshop*, edited by S. Gustafson and E. Vladislavleva, pp. 495–496, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [54] M. Kotanchek, Robust function discovery and feature selection for life sciences and engineering, in *GECCO 2012 Symbolic regression and modeling workshop*, edited by S. Gustafson and E. Vladislavleva, pp. 497–498, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [55] A. Darvish, S. Rahnamayan, and Z. S. Mohamad, Interactive differential evolution for prostate ultrasound image thresholding, in *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, edited by S. L. Smith, S. Cagnoni, and R. M. Patton, pp. 501–508, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [56] S. Cagnoni, O. Cerdón, P. Mesejo, Y. S. Nashed, and R. Ugolotti, First results and future developments of the mibisoc project in the ibislab of the university of parma, in *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, edited by S. L. Smith, S. Cagnoni, and R. M. Patton, pp. 509–516, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [57] L. Dumas, P. Boutouyrie, and E. Bozec, An optimal reconstruction of the human arterial tree from doppler echotracking measurements, in *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, edited by S. L. Smith, S. Cagnoni, and R. M. Patton, pp. 517–522, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [58] T. Rogalsky, Bzier control parameterization for evolutionary optimization in disease models, in *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, edited by S. L. Smith, S. Cagnoni, and R. M. Patton, pp. 523–530, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [59] V. Bevilacqua, G. Filograno, M. Fiorentino, and A. E. Uva, Early diagnosis of lung tumors by genetically optimized 3d-metaball malignancy metric, in *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, edited by S. L. Smith, S. Cagnoni, and R. M. Patton, pp. 531–538, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [60] M. Tan, R. Deklerck, B. Jansen, and J. Cornelis, Analysis of a feature-deselective neuroevolution classifier (fd-neat) in a computer-aided lung nodule detection system for ct images, in *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, edited by S. L. Smith, S. Cagnoni, and R. M. Patton, pp. 539–546, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [61] O. Bernstein, Flea market simulator: a market simulator for experiments on the computational evolution of trading strategies for economic agents, in *Tenth GECCO Undergraduate Student Workshop*, edited by S. Goings, pp. 549–554, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [62] D. J. Gagne, Gamiv: a genetic algorithm for identifying variable-length motifs in noncoding dna, in *Tenth GECCO Undergraduate Student Workshop*, edited by S. Goings, pp. 555–558, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [63] A. English, H. Petruso, and C. Wang, Grammatical evolution decision trees for trio designs, in *Tenth GECCO Undergraduate Student Workshop*, edited by S. Goings, pp. 559–562, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [64] J. Thompson, Trade-offs using gamid for the inference of dna motifs that are represented in only a subset of sequences of interest, in *Tenth GECCO Undergraduate Student Workshop*, edited by S. Goings, pp. 563–568, Philadelphia, Pennsylvania, USA, 2012, ACM.

- [65] K. Yeboah-Antwi, Evolving software applications using genetic programming – pushcalc: the evolved calculator, in *Tenth GECCO Undergraduate Student Workshop*, edited by S. Goings, pp. 569–572, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [66] Y. Gao and D. Lv, Principal coordinate strategy: a novel adaptive control strategy for differential evolution, in *Tenth GECCO Undergraduate Student Workshop*, edited by S. Goings, pp. 573–578, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [67] T. J. Kuehn, Evolutionary fabrication: a system of autonomous invention, in *Tenth GECCO Undergraduate Student Workshop*, edited by S. Goings, pp. 579–584, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [68] M. Mlakar, T. Tuaar, and B. Filipić, Discrete vs. continuous multiobjective optimization of continuous casting of steel, in *GECCO 2012 Graduate Students Workshop*, edited by A. Motsinger-Reif, pp. 587–590, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [69] M. Buzdalov and A. Sokolov, Evolving efsms solving a path-planning problem by genetic programming, in *GECCO 2012 Graduate Students Workshop*, edited by A. Motsinger-Reif, pp. 591–594, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [70] S. Marvel and A. Motsinger-Reif, Grammatical evolution support vector machines for predicting human genetic disease association, in *GECCO 2012 Graduate Students Workshop*, edited by A. Motsinger-Reif, pp. 595–598, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [71] S. Han, Batting order optimization by genetic algorithm, in *GECCO 2012 Graduate Students Workshop*, edited by A. Motsinger-Reif, pp. 599–602, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [72] D. Chivilikhin, V. Ulyantsev, and F. Tsarev, Test-based extended finite-state machines induction with evolutionary algorithms and ant colony optimization, in *GECCO 2012 Graduate Students Workshop*, edited by A. Motsinger-Reif, pp. 603–606, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [73] K. Hoover, R. Marceau, T. Harris, D. Reif, and A. Motsinger-Reif, A comparison of ge optimized neural networks and decision trees, in *GECCO 2012 Graduate Students Workshop*, edited by A. Motsinger-Reif, pp. 611–614, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [74] D.-M. Yoon and K.-J. Kim, Comparison of scoring methods for interactive evolutionary computation based image retouching system, in *GECCO 2012 Late breaking abstracts workshop*, edited by K. Rodriguez and C. Blum, pp. 617–618, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [75] C. Comis Da Ronco and E. Benini, Gedeia-ii: a simplex-crossover based multi objective evolutionary algorithm including the genetic diversity asobjective, in *GECCO 2012 Late breaking abstracts workshop*, edited by K. Rodriguez and C. Blum, pp. 619–620, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [76] M. A. Semenov and P. Stratonowitch, Application of evolutionary algorithms for model calibration, in *GECCO 2012 Late breaking abstracts workshop*, edited by K. Rodriguez and C. Blum, pp. 621–622, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [77] M. M. H. Ellabaan and Y. S. Ong, Experiences on memetic computation for locating transition states in biochemical applications, in *GECCO 2012 Late breaking abstracts workshop*, edited by K. Rodriguez and C. Blum, pp. 623–624, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [78] S. Mukherjee and M. J. Eppstein, Differential evolution of constants in genetic programming improves efficacy and bloat, in *GECCO 2012 Late breaking abstracts workshop*, edited by K. Rodriguez and C. Blum, pp. 625–626, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [79] P. Beliveau, G. Hornby, and J. Bongard, Interactive simulated robot construction and controller evolution, in *GECCO 2012 Late breaking abstracts workshop*, edited by K. Rodriguez and C. Blum, pp. 627–628, Philadelphia, Pennsylvania, USA, 2012, ACM.

- [80] S. Tsutsui and N. Fujimoto, On the effect of using multiple gpus in solving gaps with cuda, in *GECCO 2012 Late breaking abstracts workshop*, edited by K. Rodriguez and C. Blum, pp. 629–630, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [81] A. Benbassat and M. Sipper, Evolving players that use selective game-tree search with genetic programming, in *GECCO 2012 Late breaking abstracts workshop*, edited by K. Rodriguez and C. Blum, pp. 631–632, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [82] M. Pilat and R. Neruda, A surrogate multiobjective evolutionary strategy with local search and pre-selection, in *GECCO 2012 Late breaking abstracts workshop*, edited by K. Rodriguez and C. Blum, pp. 633–634, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [83] S. Zaglauer, The evolutionary algorithm samoa with use of dynamic constraints, in *GECCO 2012 Late breaking abstracts workshop*, edited by K. Rodriguez and C. Blum, pp. 635–636, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [84] M. Porta and B. A. Julstrom, Evolving instances of unconstrained binary quadratic programming that challenge a tabu search heuristic, in *GECCO 2012 Late breaking abstracts workshop*, edited by K. Rodriguez and C. Blum, pp. 639–640, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [85] H. soo Park and K. J. Kim, Automatic python programming using stack-based genetic programming, in *GECCO 2012 Late breaking abstracts workshop*, edited by K. Rodriguez and C. Blum, pp. 641–642, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [86] C. Fonlupt and D. Robilliard, Combining programs to counter code disruption, in *GECCO 2012 Late breaking abstracts workshop*, edited by K. Rodriguez and C. Blum, pp. 643–644, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [87] R. K. Srivastava, J. Schmidhuber, and F. Gomez, Generalized compressed network search, in *GECCO 2012 Late breaking abstracts workshop*, edited by K. Rodriguez and C. Blum, pp. 647–648, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [88] T.-Y. Ho and T.-L. Yu, A linkage-learning niching in estimation of distribution algorithm, in *GECCO 2012 Late breaking abstracts workshop*, edited by K. Rodriguez and C. Blum, pp. 649–650, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [89] A. Banerjee, Density-based evolutionary outlier detection, in *GECCO 2012 Late breaking abstracts workshop*, edited by K. Rodriguez and C. Blum, pp. 651–652, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [90] J. C. Quiroz, A. Banerjee, and S. J. Louis, 3-d modeling using collaborative evolution, in *GECCO 2012 Late breaking abstracts workshop*, edited by K. Rodriguez and C. Blum, pp. 653–654, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [91] D. Iclanzan, N. Gaskó, and D. Dumitrescu, Evolving mixed nash equilibria for bimatrix games, in *GECCO 2012 Late breaking abstracts workshop*, edited by K. Rodriguez and C. Blum, pp. 655–656, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [92] T. Raway, D. J. Schaffer, K. J. Kurtz, and H. Sayama, Evolving data sets to highlight the performance differences between machine learning classifiers, in *GECCO 2012 Late breaking abstracts workshop*, edited by K. Rodriguez and C. Blum, pp. 657–658, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [93] S. E. Celis and J. Bongard, Not all physics simulators can be wrong in the same way, in *GECCO 2012 Late breaking abstracts workshop*, edited by K. Rodriguez and C. Blum, pp. 659–660, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [94] S. B. Ismail, F. Legras, and G. Coppin, A new interactive evolutionary algorithm for the vehicle routing problem, in *GECCO 2012 Late breaking abstracts workshop*, edited by K. Rodriguez and C. Blum, pp. 661–668, Philadelphia, Pennsylvania, USA, 2012, ACM.

- [95] E. D. Goodman, Introduction to genetic algorithms, in *GECCO 2012 Introductory tutorials*, edited by G. Ochoa, pp. 671–692, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [96] U.-M. O’Reilly, Genetic programming: a tutorial introduction, in *GECCO 2012 Introductory tutorials*, edited by G. Ochoa, pp. 693–710, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [97] T. Baeck, Evolution strategies: basic introduction, in *GECCO 2012 Introductory tutorials*, edited by G. Ochoa, pp. 711–736, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [98] K. De Jong, Evolutionary computation: a unified approach, in *GECCO 2012 Introductory tutorials*, edited by G. Ochoa, pp. 737–750, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [99] M. Pelikan, Probabilistic model-building genetic algorithms, in *GECCO 2012 Introductory tutorials*, edited by G. Ochoa, pp. 777–804, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [100] K. O. Stanley, Evolving neural networks, in *GECCO 2012 Introductory tutorials*, edited by G. Ochoa, pp. 805–826, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [101] A. Auger and N. Hansen, Tutorial cma-es: evolution strategies and covariance matrix adaptation, in *GECCO 2012 Advanced tutorials*, edited by G. Ochoa, pp. 827–848, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [102] C. A. Coello Coello, Constraint-handling techniques used with evolutionary algorithms, in *GECCO 2012 Advanced tutorials*, edited by G. Ochoa, pp. 849–872, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [103] F. Rothlauf, Representations for evolutionary algorithms, in *GECCO 2012 Advanced tutorials*, edited by G. Ochoa, pp. 873–894, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [104] M. Wineberg, Statistical analysis for evolutionary computation: an introduction, in *GECCO 2012 Advanced tutorials*, edited by G. Ochoa, pp. 895–916, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [105] J. E. Rowe, Genetic algorithm theory, in *GECCO 2012 Advanced tutorials*, edited by G. Ochoa, pp. 917–940, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [106] D. Whitley and A. Sutton, Elementary landscapes: theory and applications, in *GECCO 2012 Advanced tutorials*, edited by G. Ochoa, pp. 941–960, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [107] S. Verel, Fitness landscapes and graphs: multimodularity, ruggedness and neutrality, in *GECCO 2012 Advanced tutorials*, edited by G. Ochoa, pp. 1013–1034, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [108] F. Neumann and C. Witt, Bioinspired computation in combinatorial optimization: algorithms and their computational complexity, in *GECCO 2012 Advanced tutorials*, edited by G. Ochoa, pp. 1035–1058, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [109] T. Jansen and C. Zarges, Artificial immune systems for optimisation, in *GECCO 2012 Specialized techniques and applications tutorials*, edited by G. Ochoa, pp. 1059–1078, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [110] B. Doerr, Black-box complexity: from complexity theory to playing mastermind, in *GECCO 2012 Specialized techniques and applications tutorials*, edited by G. Ochoa, pp. 1079–1092, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [111] J. F. Miller and S. Harding, Gecco 2012 tutorial: cartesian genetic programming, in *GECCO 2012 Specialized techniques and applications tutorials*, edited by G. Ochoa, pp. 1093–1116, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [112] P. Collet and S. Harding, Evolutionary algorithms and genetic programming on graphic processing units (gpu), in *GECCO 2012 Specialized techniques and applications tutorials*, edited by G. Ochoa, pp. 1117–1138, Philadelphia, Pennsylvania, USA, 2012, ACM.



- [113] D. Loiacono and M. Preuß, Computational intelligence in games, in *GECCO 2012 Specialized techniques and applications tutorials*, edited by G. Ochoa, pp. 1139–1140, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [114] W. S. Bush, Introduction to bioinformatics and computational biology, in *GECCO 2012 Specialized techniques and applications tutorials*, edited by G. Ochoa, pp. 1141–1170, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [115] J. Bacardit and X. Llorà, Large scale data mining using genetics-based machine learning, in *GECCO 2012 Specialized techniques and applications tutorials*, edited by G. Ochoa, pp. 1171–1196, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [116] G. Ochoa, Hyper-heuristics and cross-domain optimization, in *GECCO 2012 Specialized techniques and applications tutorials*, edited by G. Ochoa, pp. 1197–1214, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [117] D. Sudholt, Theory of swarm intelligence, in *GECCO 2012 Specialized techniques and applications tutorials*, edited by G. Ochoa, pp. 1215–1238, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [118] P. K. Lehre, Drift analysis, in *GECCO 2012 Specialized techniques and applications tutorials*, edited by G. Ochoa, pp. 1239–1258, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [119] S. Wagner and G. Kronberger, Algorithm and experiment design with heuristic lab: an open source optimization environment for research and education, in *GECCO 2012 Specialized techniques and applications tutorials*, edited by G. Ochoa, pp. 1287–1316, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [120] A. Moraglio, Geometry of evolutionary algorithms, in *GECCO 2012 Specialized techniques and applications tutorials*, edited by G. Ochoa, pp. 1317–1344, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [121] S. Forrest and C. LeGoues, Evolutionary software repair, in *GECCO 2012 Specialized techniques and applications tutorials*, edited by G. Ochoa, pp. 1345–1348, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [122] G. Longo, M. Montévil, and S. Kauffman, No entailing laws, but enablement in the evolution of the biosphere, in *GECCO 2012 Keynote talks*, edited by J. H. Moore, pp. 1379–1392, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [123] C. E. Schoonover, How to look inside the brain, in *GECCO 2012 Keynote talks*, edited by J. H. Moore, pp. 1393–1394, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [124] A. M. Abdelbar and D. C. Wunsch, Improving the performance of max-min ant system on the tsp using stubborn ants, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule et al., pp. 1395–1396, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [125] A. Rajasekhar, S. Das, and S. Das, muabc: a micro artificial bee colony algorithm for large scale global optimization, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule et al., pp. 1399–1400, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [126] W. K. Richard and S. M. Majercik, Swarm-based path creation in dynamic environments for search and rescue, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule et al., pp. 1401–1402, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [127] M. Setayesh, M. Zhang, and M. Johnston, A spatial random-meaningful neighbourhood topology in pso for edge detection in noisy images, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule et al., pp. 1403–1404, Philadelphia, Pennsylvania, USA, 2012, ACM.

- [128] J. Bongard, P. Beliveau, and G. Hornby, Avoiding local optima with interactive evolutionary robotics, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1405–1406, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [129] C. Byers, B. Cheng, and P. McKinley, Exploring the evolution of internal control structure using digital enzymes, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1407–1408, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [130] M. Knudson and K. Tumer, Policy transfer in mobile robots using neuro-evolutionary navigation, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1411–1412, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [131] A. Castellini, V. Manca, M. Zucchelli, and M. Busato, A genetic approach for synthesizing metabolic models from time series, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1415–1416, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [132] H. C. Jimbo and M. J. Craven, A dynamical model of cancer chemotherapy with disturbance, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1417–1418, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [133] K. Komiya, N. Noman, and H. Iba, The search for robust topologies of oscillatory gene regulatory networks by evolutionary computation, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1419–1420, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [134] M. S. Nobile, D. Besozzi, P. Cazzaniga, G. Mauri, and D. Pescini, Estimating reaction constants in stochastic biological systems with a multi-swarm pso running on gpus, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1421–1422, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [135] L. Palafox and I. Hitoshi, Gene regulatory network reverse engineering using population based incremental learning and k-means, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1423–1424, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [136] J. Pescalie, V. Lobjois, H. Luga, B. Ducommun, and Y. Duthen, Checkpoint oriented cell-cycle simulation: critical role for age distribution initialization, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1425–1426, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [137] C.-H. Hsueh and T.-L. Yu, Affective content based music video paring system using real coded ga, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1427–1428, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [138] B. H. Helmi, M. Pelikan, and A. T. Rahmani, Linkage learning using the maximum spanning tree of the dependency graph, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1429–1430, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [139] R. G. Regis, Surrogate-assisted evolutionary programming for high dimensional constrained black-box optimization, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1431–1432, Philadelphia, Pennsylvania, USA, 2012, ACM.

- [140] M. G. Carneiro and G. M. B. Oliveira, Synchronous cellular automata scheduler with construction heuristic to static task scheduling in multiprocessors, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1433–1434, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [141] A. Kattan and S. Fatima, Evolving optimal agendas and strategies for negotiation in dynamic environments: a surrogate based approach, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1435–1436, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [142] N. Mani, G. Srivastava, A. K. Sinha, and A. Mani, An evaluation of cellular population model for improving quantum-inspired evolutionary algorithm, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1437–1438, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [143] E. R. García *et al.*, A discrete artificial bee colony algorithm for the multi-objective redistricting problem, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1439–1440, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [144] K. Rocki and R. Suda, An efficient gpu implementation of a multi-start tsp solver for large problem instances, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1441–1442, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [145] M. Nasir, S. Sengupta, S. Das, and S. Das, Configuration of sensors on a 3-d terrain: an approach based on evolutionary multi-objective optimization, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1443–1444, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [146] B. Amiri, L. Hossain, and J. Crawford, A multiobjective hybrid evolutionary algorithm for clustering in social networks, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1445–1446, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [147] L. Matoso, F. Junior, A. Pereira, A. Veloso, and J. Wagner Meira, New evolutionary approaches to high-dimensional data, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1447–1448, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [148] M. J. Sepúlveda *et al.*, Multi-objective artificial immune algorithm for security-constrained multi-application noc mapping, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1449–1450, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [149] M. Zaefferer, T. Bartz-Beielstein, M. Friese, B. Naujoks, and O. Flasch, Multi-criteria optimization for hard problems under limited budgets, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1451–1452, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [150] F. Gomez, J. Koutník, and J. Schmidhuber, Complexity search for compressed neural networks, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1455–1456, Philadelphia, Pennsylvania, USA, 2012, ACM.

- [151] J. Rieffel and S. Smith, Growing and evolving soft robots with a face-encoding tetrahedral grammar, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1457–1458, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [152] M. Bazargani, A. Anjos, F. Lobo, A. Mollahosseini, and H. Shahbazkia, Affine image registration transformation estimation using a real coded genetic algorithm with sbx, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1459–1460, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [153] K. Burjorjee, Explaining adaptation in genetic algorithms with uniform crossover: the hyperclimbing hypothesis, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1461–1462, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [154] B. A. Julstrom, Clans and cooperation in the iterated prisoner’s dilemma, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1463–1464, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [155] T. Oliwa and K. Rasheed, A surrogate-assisted and informed linkage aware ga, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1467–1468, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [156] T. Ranjeet, P. Hingston, C. P. Lam, and M. Masek, Evaluating coevolution on a multimodal problem, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1469–1470, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [157] M. Ryerkerk, R. Averill, K. Deb, and E. Goodman, Meaningful representation and recombination of variable length genomes, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1471–1472, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [158] R. Santana, A. Mendiburu, and J. Lozano, Evolving nk-complexity for evolutionary solvers, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1473–1474, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [159] C.-W. Tsai, T.-Y. Lin, M.-C. Chiang, C.-S. Yang, and T.-P. Hong, Continuous space pattern reduction for genetic clustering algorithm, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1475–1476, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [160] B. Behzadan and R. E. Smith, An information-based approach towards neuro-evolution, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1491–1492, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [161] N. Fredivianus, K. Kara, and H. Schmeck, Stay real!: Xcs with rule combining for real values, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1493–1494, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [162] F. Gullo, A. K. Talukder, S. Luke, C. Domeniconi, and A. Tagarelli, Multiobjective optimization of co-clustering ensembles, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1495–1496, Philadelphia, Pennsylvania, USA, 2012, ACM.

- [163] A. Bartoli *et al.*, Automatic generation of regular expressions from examples with genetic programming, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1477–1478, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [164] S. Nourashrafeddin, D. Arnold, and E. Milios, An evolutionary subspace clustering algorithm for high-dimensional data, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1497–1498, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [165] J. Correia, P. Machado, and J. Romero, Improving haar cascade classifiers through the synthesis of new training examples, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1479–1480, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [166] D. Fagan, E. Hemberg, M. Nicolau, M. O'Neill, and S. McGarraghy, Towards adaptive mutation in grammatical evolution, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1481–1482, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [167] N. Schneider, Generic prognosis with evolutionary approaches, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1501–1502, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [168] W. Fu, M. Johnston, and M. Zhang, Genetic programming for edge detection based on figure of merit, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1483–1484, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [169] Q. Sun, B. Pfahringer, and M. Mayo, Full model selection in the space of data mining operators, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1503–1504, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [170] T. Helmuth and L. Spector, Empirical investigation of size-based tournaments for node selection in genetic programming, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1485–1486, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [171] K. Krawiec and T. Pawlak, Locally geometric semantic crossover, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1487–1488, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [172] L. Trujillo, Y. Martinez, E. G. Lopez, and P. Legrand, A comparative study of an evolvability indicator and a predictor of expected performance for genetic programming, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1489–1490, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [173] M. Coletti, The effects of training set size and keeping rules on the emergent selection pressure of learnable evolution model, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1505–1506, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [174] K. Jebari, A. Bouroumi, and A. Ettouhami, Genetic fuzzy rules for dops, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1507–1508, Philadelphia, Pennsylvania, USA, 2012, ACM.

- [175] Y. long Li, J. Zhang, and W. neng Chen, Differential evolution algorithm with pca-based crossover, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1509–1510, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [176] J. Maturana *et al.*, Improving clonal colony optimization to evolve robust solutions, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1511–1512, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [177] Z. hui Zhan and J. Zhang, Enhance differential evolution with random walk, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1513–1514, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [178] J.-J. Merelo-Guervós, A. M. Mora, A. I. Esparcia, and C. M. Fernandes, Validating design choices in a pool-based distributed evolutionary algorithms architecture, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1517–1518, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [179] V. Noroozi, A. B. Hashemi, and M. R. Meybodi, Alpinist cellularde: a cellular based optimization algorithm for dynamic environments, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1519–1520, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [180] A. Alford *et al.*, Analyzing the cross-generalization ability of a hybrid genetic & evolutionary application for multibiometric feature weighting and selection, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1521–1522, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [181] A. L. Bazzan, Co-evolution of the dynamics in population games: the case of traffic flow assignment, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1523–1524, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [182] J. Kim and B.-R. Moon, New malware detection system using metric-based method and hybrid genetic algorithm, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1527–1528, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [183] S. Ono and S. Nakayama, User-system cooperative evolution for japanese anagram sentence generation, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1529–1530, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [184] J. Pinto and N. Horta, Automated passive filter design using multi-objective genetic algorithms with variable parameters, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1531–1532, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [185] G. I. Sher, Forex trading using geometry sensitive neural networks, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1533–1534, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [186] F. J. Soltero, D. J. Bodas-Sagi, P. Fernández-Blanco, J. I. Hidalgo, and F. F. de Vega, Optimization of technical indicators in real time with multiobjective evolutionary algorithms, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1535–1536, Philadelphia, Pennsylvania, USA, 2012, ACM.

- [187] M. Suci, M. Cremene, F. Pop, and D. Dumitrescu, Equitable solutions in qos-aware service optimization, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1537–1538, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [188] O. Yefimochkin, R. Neves, and N. Horta, An evolutionary approach to define investment strategies based on macroeconomic indicators and vix data, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1539–1540, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [189] M. de Oliveira Barros, H. R. Costa, F. V. Figueiredo, and A. R. Cavalcanti da Rocha, Multiobjective optimization for project portfolio selection, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1541–1542, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [190] N. Chen, J. Zhang, and O. Liu, Adaptive genetic algorithm based on density distribution of population, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1543–1544, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [191] E. López-Camacho, H. Terashima-Marín, and S. E. Conant-Pablos, The impact of the bin packing problem structure in hyper-heuristic performance, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1545–1546, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [192] N. Manukyan *et al.*, Evolutionary mining for multivariate associations in large time-varying data sets: a healthcare network application, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by T. Soule *et al.*, pp. 1547–1548, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [193] B. Rand *et al.*, editors, *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, Philadelphia, Pennsylvania, USA, 2012.