Список литературы

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

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

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

- [39] Lee, P., Teng, Y., and Hsiao, T.-C., 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 Loiacono, D., Orriols-Puig, A., and Urbanowicz, R., pages 375–382, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [40] Tinós, R., Analysing fitness landscape changes in evolutionary robots, in 1st workshop on Understanding Problems (GECCO-UP), edited by McClymont, K. and Keedwell, E., pages 385–392, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [41] Pitzer, E., Beham, A., and Affenzeller, M., 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 McClymont, K. and Keedwell, E., pages 393–400, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [42] Spector, L., Assessment of problem modality by differential performance of lexicase selection in genetic programming: a preliminary report, in 1st workshop on Understanding Problems (GECCO-UP), edited by McClymont, K. and Keedwell, E., pages 401–408, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [43] Garrett, D., A call for collaborative landscape analysis, in 1st workshop on Understanding Problems (GECCO-UP), edited by McClymont, K. and Keedwell, E., pages 409–416, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [44] Tosch, E. and Spector, L., 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 McClymont, K. and Keedwell, E., pages 417–424, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [45] McClymont, K., Walker, D., and Dupenois, M., The lay of the land: a brief survey of problem understanding, in 1st workshop on Understanding Problems (GECCO-UP), edited by McClymont, K. and Keedwell, E., pages 425–432, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [46] Fernandes, C. M., Mora, A., Merelo, J. J., Fernández, F., and Rosa, A., 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 Everson, R., Fieldsend, J., and Walker, D., pages 435–442, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [47] Walker, D., Fieldsend, J., and Everson, R., Visualising many-objective populations, in GECCO 2012 Visualisation methods for genetic and evolutionary computation (VizGEC), edited by Everson, R., Fieldsend, J., and Walker, D., pages 451–458, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [48] Kaliakatsos-Papakostas, M. A., Floros, A., Kanellopoulos, N., and Vrahatis, M. N., Genetic evolution of l and fl-systems for the production of rhythmic sequences, in *GECCO 2012 Evolutionary music*, edited by Fernandez de Vega, F. and Cotta, C., pages 461–468, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [49] Rafael, B., Affenzeller, M., and Wagner, S., An adaption of the schema theorem to various crossover and mutation operators for a music segmentation problem, in *GECCO 2012 Evolutionary music*, edited by Fernandez de Vega, F. and Cotta, C., pages 469–476, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [50] Reis, G., Fernandéz, F., and Ferreira, A., Evolutionary algorithms and automatic transcription of music, in *GECCO 2012 Evolutionary music*, edited by Fernandez de Vega, F. and Cotta, C., pages 477–484, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [51] Aleb, N. and Kechid, S., A new framework for scalable genetic programming, in GECCO 2012 Symbolic regression and modeling workshop, edited by Gustafson, S. and Vladislavleva, E., pages 487–492, Philadelphia, Pennsylvania, USA, 2012, ACM.

- [52] Hemberg, E., Veeramachaneni, K., and O'Reilly, U.-M., 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 Gustafson, S. and Vladislavleva, E., pages 493–494, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [53] Bartz-Beielstein, T., Flasch, O., and Zaefferer, M., Sequential parameter optimization for symbolic regression, in GECCO 2012 Symbolic regression and modeling workshop, edited by Gustafson, S. and Vladislavleva, E., pages 495–496, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [54] Kotanchek, M., Robust function discovery and feature selection for life sciences and engineering, in *GECCO 2012 Symbolic regression and modeling workshop*, edited by Gustafson, S. and Vladislavleva, E., pages 497–498, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [55] Darvish, A., Rahnamayan, S., and Mohamad, Z. S., Interactive differential evolution for prostate ultrasound image thresholding, in *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, edited by Smith, S. L., Cagnoni, S., and Patton, R. M., pages 501–508, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [56] Cagnoni, S., Cordón, O., Mesejo, P., Nashed, Y. S., and Ugolotti, R., 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 Smith, S. L., Cagnoni, S., and Patton, R. M., pages 509–516, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [57] Dumas, L., Boutouyrie, P., and Bozec, E., 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 Smith, S. L., Cagnoni, S., and Patton, R. M., pages 517–522, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [58] Rogalsky, T., Bezier control parameterization for evolutionary optimization in disease models, in GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC), edited by Smith, S. L., Cagnoni, S., and Patton, R. M., pages 523–530, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [59] Bevilacqua, V., Filograno, G., Fiorentino, M., and Uva, A. E., 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 Smith, S. L., Cagnoni, S., and Patton, R. M., pages 531–538, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [60] Tan, M., Deklerck, R., Jansen, B., and Cornelis, J., 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 Smith, S. L., Cagnoni, S., and Patton, R. M., pages 539–546, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [61] Bernstein, O., 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 Goings, S., pages 549–554, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [62] Gagne, D. J., Gamiv: a genetic algorithm for identifying variable-lengthmotifs in noncoding dna, in *Tenth GECCO Undergraduate Student Workshop*, edited by Goings, S., pages 555–558, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [63] English, A., Petruso, H., and Wang, C., Grammatical evolution decision trees for trio designs, in *Tenth GECCO Undergraduate Student Workshop*, edited by Goings, S., pages 559–562, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [64] Thompson, J., 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 Goings, S., pages 563–568, Philadelphia, Pennsylvania, USA, 2012, ACM.

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

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

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

- [113] Loiacono, D. and Preuß, M., Computational intelligence in games, in *GECCO 2012 Specialized techniques and applications tutorials*, edited by Ochoa, G., pages 1139–1140, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [114] Bush, W. S., Introduction to bioinformatics and computational biology, in *GECCO 2012 Specialized techniques and applications tutorials*, edited by Ochoa, G., pages 1141–1170, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [115] Bacardit, J. and Llorà, X., Large scale data mining using genetics-based machine learning, in *GECCO 2012 Specialized techniques and applications tutorials*, edited by Ochoa, G., pages 1171–1196, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [116] Ochoa, G., Hyper-heuristics and cross-domain optimization, in *GECCO 2012 Specialized techniques and applications tutorials*, edited by Ochoa, G., pages 1197–1214, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [117] Sudholt, D., Theory of swarm intelligence, in GECCO 2012 Specialized techniques and applications tutorials, edited by Ochoa, G., pages 1215–1238, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [118] Lehre, P. K., Drift analysis, in *GECCO 2012 Specialized techniques and applications tutorials*, edited by Ochoa, G., pages 1239–1258, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [119] Wagner, S. and Kronberger, G., 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 Ochoa, G., pages 1287–1316, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [120] Moraglio, A., Geometry of evolutionary algorithms, in *GECCO 2012 Specialized techniques and applications tutorials*, edited by Ochoa, G., pages 1317–1344, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [121] Forrest, S. and LeGoues, C., Evolutionary software repair, in GECCO 2012 Specialized techniques and applications tutorials, edited by Ochoa, G., pages 1345–1348, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [122] Longo, G., Montévil, M., and Kauffman, S., No entailing laws, but enablement in the evolution of the biosphere, in *GECCO 2012 Keynote talks*, edited by Moore, J. H., pages 1379–1392, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [123] Schoonover, C. E., How to look inside the brain, in *GECCO 2012 Keynote talks*, edited by Moore, J. H., pages 1393–1394, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [124] Abdelbar, A. M. and Wunsch, D. C., 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 Soule, T. et al., pages 1395–1396, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [125] Rajasekhar, A., Das, S., and Das, S., 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 Soule, T. et al., pages 1399–1400, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [126] Richard, W. K. and Majercik, S. M., 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 Soule, T. et al., pages 1401–1402, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [127] Setayesh, M., Zhang, M., and Johnston, M., 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 Soule, T. et al., pages 1403–1404, Philadelphia, Pennsylvania, USA, 2012, ACM.

- [128] Bongard, J., Beliveau, P., and Hornby, G., 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 Soule, T. et al., pages 1405–1406, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [129] Byers, C., Cheng, B., and McKinley, P., 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 Soule, T. et al., pages 1407–1408, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [130] Knudson, M. and Tumer, K., 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 Soule, T. et al., pages 1411–1412, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [131] Castellini, A., Manca, V., Zucchelli, M., and Busato, M., 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 Soule, T. et al., pages 1415–1416, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [132] Jimbo, H. C. and Craven, M. J., 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 Soule, T. et al., pages 1417–1418, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [133] Komiya, K., Noman, N., and Iba, H., 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 Soule, T. et al., pages 1419–1420, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [134] Nobile, M. S., Besozzi, D., Cazzaniga, P., Mauri, G., and Pescini, D., 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 Soule, T. et al., pages 1421–1422, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [135] Palafox, L. and Hitoshi, I., 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 Soule, T. et al., pages 1423–1424, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [136] Pascalie, J., Lobjois, V., Luga, H., Ducommun, B., and Duthen, Y., 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 Soule, T. et al., pages 1425–1426, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [137] Hsueh, C.-H. and Yu, T.-L., 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 Soule, T. et al., pages 1427–1428, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [138] Helmi, B. H., Pelikan, M., and Rahmani, A. T., 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 Soule, T. et al., pages 1429–1430, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [139] Regis, R. G., 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 Soule, T. et al., pages 1431–1432, Philadelphia, Pennsylvania, USA, 2012, ACM.

- [140] Carneiro, M. G. and Oliveira, G. M. B., 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 Soule, T. et al., pages 1433–1434, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [141] Kattan, A. and Fatima, S., 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 Soule, T. et al., pages 1435–1436, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [142] Mani, N., Srivastava, G., Sinha, A. K., and Mani, A., 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 Soule, T. et al., pages 1437–1438, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [143] García, E. R. 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 Soule, T. et al., pages 1439–1440, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [144] Rocki, K. and Suda, R., 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 Soule, T. et al., pages 1441–1442, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [145] Nasir, M., Sengupta, S., Das, S., and Das, S., 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 Soule, T. et al., pages 1443–1444, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [146] Amiri, B., Hossain, L., and Crowford, J., 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 Soule, T. et al., pages 1445–1446, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [147] Matoso, L., Junior, F., Pereira, A., Veloso, A., and Wagner Meira, J., 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 Soule, T. et al., pages 1447–1448, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [148] Sepúlveda, M. J. 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 Soule, T. et al., pages 1449–1450, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [149] Zaefferer, M., Bartz-Beielstein, T., Friese, M., Naujoks, B., and Flasch, O., 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 Soule, T. et al., pages 1451–1452, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [150] Gomez, F., Koutník, J., and Schmidhuber, J., 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 Soule, T. et al., pages 1455–1456, Philadelphia, Pennsylvania, USA, 2012, ACM.

- [151] Rieffel, J. and Smith, S., 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 Soule, T. et al., pages 1457–1458, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [152] Bazargani, M., Anjos, A., Lobo, F., Mollahosseini, A., and Shahbazkia, H., 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 Soule, T. et al., pages 1459–1460, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [153] Burjorjee, K., 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 Soule, T. et al., pages 1461–1462, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [154] Julstrom, B. A., 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 Soule, T. et al., pages 1463–1464, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [155] Oliwa, T. and Rasheed, K., 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 Soule, T. et al., pages 1467–1468, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [156] Ranjeet, T., Hingston, P., Lam, C. P., and Masek, M., 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 Soule, T. et al., pages 1469–1470, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [157] Ryerkerk, M., Averill, R., Deb, K., and Goodman, E., 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 Soule, T. et al., pages 1471–1472, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [158] Santana, R., Mendiburu, A., and Lozano, J., 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 Soule, T. et al., pages 1473–1474, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [159] Tsai, C.-W., Lin, T.-Y., Chiang, M.-C., Yang, C.-S., and Hong, T.-P., 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 Soule, T. et al., pages 1475–1476, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [160] Behzadan, B. and Smith, R. E., 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 Soule, T. et al., pages 1491–1492, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [161] Fredivianus, N., Kara, K., and Schmeck, H., 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 Soule, T. et al., pages 1493–1494, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [162] Gullo, F., Talukder, A. K., Luke, S., Domeniconi, C., and Tagarelli, A., 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 Soule, T. et al., pages 1495–1496, Philadelphia, Pennsylvania, USA, 2012, ACM.

- [163] Bartoli, A. 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 Soule, T. et al., pages 1477–1478, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [164] Nourashrafeddin, S., Arnold, D., and Milios, E., 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 Soule, T. et al., pages 1497–1498, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [165] Correia, J., Machado, P., and Romero, J., 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 Soule, T. et al., pages 1479–1480, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [166] Fagan, D., Hemberg, E., Nicolau, M., O'Neill, M., and McGarraghy, S., 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 Soule, T. et al., pages 1481–1482, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [167] Schneider, N., Generic prognosis with evolutionary approaches, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by Soule, T. et al., pages 1501–1502, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [168] Fu, W., Johnston, M., and Zhang, M., 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 Soule, T. et al., pages 1483–1484, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [169] Sun, Q., Pfahringer, B., and Mayo, M., 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 Soule, T. et al., pages 1503–1504, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [170] Helmuth, T. and Spector, L., 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 Soule, T. et al., pages 1485–1486, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [171] Krawiec, K. and Pawlak, T., Locally geometric semantic crossover, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by Soule, T. et al., pages 1487–1488, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [172] Trujillo, L., Martinez, Y., Lopez, E. G., and Legrand, P., 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 Soule, T. et al., pages 1489–1490, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [173] Coletti, M., 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 Soule, T. et al., pages 1505–1506, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [174] Jebari, K., Bouroumi, A., and Ettouhami, A., Genetic fuzzy rules for dops, in *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, edited by Soule, T. et al., pages 1507–1508, Philadelphia, Pennsylvania, USA, 2012, ACM.

- [175] long Li, Y., Zhang, J., and neng Chen, W., 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 Soule, T. et al., pages 1509–1510, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [176] Maturana, J. 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 Soule, T. et al., pages 1511–1512, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [177] hui Zhan, Z. and Zhang, J., 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 Soule, T. et al., pages 1513–1514, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [178] Merelo-Guervós, J.-J., Mora, A. M., Esparcia, A. I., and Fernandes, C. M., 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 Soule, T. et al., pages 1517–1518, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [179] Noroozi, V., Hashemi, A. B., and Meybodi, M. R., 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 Soule, T. et al., pages 1519–1520, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [180] Alford, A. 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 Soule, T. et al., pages 1521–1522, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [181] Bazzan, A. L., 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 Soule, T. et al., pages 1523–1524, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [182] Kim, J. and Moon, B.-R., 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 Soule, T. et al., pages 1527–1528, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [183] Ono, S. and Nakayama, S., 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 Soule, T. et al., pages 1529–1530, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [184] Pinto, J. and Horta, N., 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 Soule, T. et al., pages 1531–1532, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [185] Sher, G. I., 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 Soule, T. et al., pages 1533–1534, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [186] Soltero, F. J., Bodas-Sagi, D. J., Fernández-Blanco, P., Hidalgo, J. I., and de Vega, F. F., 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 Soule, T. et al., pages 1535–1536, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [187] Suciu, M., Cremene, M., Pop, F., and Dumitrescu, D., 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 Soule, T. et al., pages 1537–1538, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [188] Yefimochkin, O., Neves, R., and Horta, N., 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 Soule, T. et al., pages 1539–1540, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [189] de Oliveira Barros, M., Costa, H. R., Figueiredo, F. V., and Cavalcanti da Rocha, A. R., 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 Soule, T. et al., pages 1541–1542, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [190] Chen, N., Zhang, J., and Liu, O., 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 Soule, T. et al., pages 1543–1544, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [191] López-Camacho, E., Terashima-Marín, H., and Conant-Pablos, S. E., 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 Soule, T. et al., pages 1545–1546, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [192] Manukyan, N. 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 Soule, T. et al., pages 1547–1548, Philadelphia, Pennsylvania, USA, 2012, ACM.
- [193] Rand, B. et al., editors, GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion, Philadelphia, Pennsylvania, USA, 2012.