Список литературы

[1] Hutterer S, Affenzeller M, Auinger F. 2012 Evolutionary optimization of multi-agent controlstrategies for electric vehicle charging. In: Tantar AA, Tantar E, Bosman PA (eds.), *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*, pp. 3–10. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330786).

[2] Toutouh J, Alba E. 2012 Green olsr in vanets with differential evolution. In: Tantar AA, Tantar E, Bosman PA (eds.), *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*, pp. 11–18. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330787).

[3] Phan DH, Suzuki J, Carroll R, Balasubramaniam S, Donnelly W, Botvich D. 2012 Evolutionary multiobjective optimization for green clouds. In: Tantar AA, Tantar E, Bosman PA (eds.), *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*, pp. 19–26. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330788).

[4] Cavalcante ES, Aquino AL, Pappa GL, Loureiro AA. 2012 Roadside unit deployment for information dissemination in a vanet: an evolutionary approach. In: Tantar AA, Tantar E, Bosman PA (eds.), *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*, pp. 27–34. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330789).

[5] Kromer P, Prokop L, Snasel V, Misak S, Platos J, Abraham A. 2012 Evolutionary prediction of photovoltaic power plant energy production. In: Tantar AA, Tantar E, Bosman PA (eds.), *GECCO 2012 Green and Efficient Energy Applications of Genetic and Evolutionary Computation Workshop (GreenGEC)*, pp. 35–42. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330790).

[6] Padhye N. 2012 Evolutionary approaches for real world applications in 21st century. In: Padhye N, Baughman A, Van Der Stock S, Perlitz M, Gustafson SM, Jesneck J (eds.), *GECCO 2012 Real world applications of evolutionary computation*, pp. 43–48. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330792).

[7] Lourenço N, Pereira F, Costa E. 2012 Evolving evolutionary algorithms. In: Pappa GL, Woodward J, Hyde MR, Swan J (eds.), *GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms*, pp. 51–58. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330794).

[8] Goldman BW, Tauritz DR. 2012 Supportive coevolution. In: Pappa GL, Woodward J, Hyde MR, Swan J (eds.), *GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms*, pp. 59–66. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330795).

[9] Woodward JR, Swan J. 2012 The automatic generation of mutation operators for genetic algorithms. In: Pappa GL, Woodward J, Hyde MR, Swan J (eds.), *GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms*, pp. 67–74. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330796).

[10] Harrington KI, Spector L, Pollack JB, O'Reilly UM. 2012 Autoconstructive evolution for structural problems. In: Pappa GL, Woodward J, Hyde MR, Swan J (eds.), *GECCO 2012 2nd Workshop on Evolutionary Computation for the Automated Design of Algorithms*, pp. 75–82. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330797).

[11] De Rainville FM, Fortin FA, Gardner MA, Parizeau M, Gagné C. 2012 Deap: a python framework for evolutionary algorithms. In: Wagner S, Affenzeller M (eds.), *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, pp. 85–92. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330799).

[12] Otero F, Castle T, Johnson C. 2012 Epochx: genetic programming in java with statistics and event monitoring. In: Wagner S, Affenzeller M (eds.), *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, pp. 93–100. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330800).

[13] Kommenda M, Kronberger G, Wagner S, Winkler S, Affenzeller M. 2012 On the architecture and implementation of tree-based genetic programming in heuristiclab. In: Wagner S, Affenzeller M (eds.), *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, pp. 101–108. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330801).

[14] Merelo JJ, Fernandes CM, Mora AM, Esparcia AI. 2012 Sofea: a pool-based framework for evolutionary algorithms using couchdb. In: Wagner S, Affenzeller M (eds.), *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, pp. 109–116. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330802).

[15] Nashed YS, Ugolotti R, Mesejo P, Cagnoni S. 2012 libcudaoptimize: an open source library of gpu-based metaheuristics. In: Wagner S, Affenzeller M (eds.), *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, pp. 117–124. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330803).

[16] Beham A, Pitzer E, Wagner S, Affenzeller M, Altendorfer K, Felberbauer T, Bäck M. 2012 Integration of flexible interfaces in optimization software frameworks for simulation-based optimization. In: Wagner S, Affenzeller M (eds.), *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, pp. 125–132. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330804).

[17] Connelly BD, Zaman L, McKinley PK. 2012 The seeds platform for evolutionary and ecological simulations. In: Wagner S, Affenzeller M (eds.), *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, pp. 133–140. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330805).

[18] Scheibenpflug A, Wagner S, Pitzer E, Affenzeller M. 2012 Optimization knowledge base: an open database for algorithm and problem characteristics and optimization results. In: Wagner S, Affenzeller M (eds.), *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, pp. 141–148. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330806).

[19] Dobslaw F. 2012 Input: the intelligent parameter utilization tool. In: Wagner S, Affenzeller M (eds.), *GECCO 2012 Evolutionary Computation Software Systems (EvoSoft)*, pp. 149–156. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330807).

[20] Liao T, Molina D, Stutzle T, Montes de Oca MA, Dorigo M. 2012 An aco algorithm benchmarked on the bbob noiseless function testbed. In: Auger A, Chotard A, Hansen N, Heidrich-Meisner V, Mersmann O, Posik P, Preuss M (eds.), *Black box optimization benchmarking 2012 (BBOB 2012)*, pp. 159–166. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330809).

[21] Chuang YC, Chen CT. 2012 Black-box optimization benchmarking for noiseless function testbed using a direction-based rcga. In: Auger A, Chotard A, Hansen N, Heidrich-Meisner V, Mersmann O, Posik P, Preuss M (eds.), *Black box optimization benchmarking 2012 (BBOB 2012)*, pp. 167–174. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330810).

[22] Loshchilov I, Schoenauer M, Sebag M. 2012 Black-box optimization benchmarking of ipop-saacm-es and bipop-saacm-es on the bbob-2012 noiseless testbed. In: Auger A, Chotard A, Hansen N, Heidrich-Meisner V, Mersmann O, Posik P, Preuss M (eds.), *Black box optimization benchmarking 2012 (BBOB 2012)*, pp. 175–182. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330811).

[23] de Melo VV. 2012 Benchmarking the multi-view differential evolution on the noiseless bbob-2012 function testbed. In: Auger A, Chotard A, Hansen N, Heidrich-Meisner V, Mersmann O, Posik P, Preuss M (eds.), *Black box optimization benchmarking 2012 (BBOB 2012)*, pp. 183–188. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330812).

[24] Poaík P, Klema V. 2012 Benchmarking the differential evolution with adaptive encoding on noiseless functions. In: Auger A, Chotard A, Hansen N, Heidrich-Meisner V, Mersmann O, Posik P, Preuss M (eds.), *Black box optimization benchmarking 2012 (BBOB 2012)*, pp. 189–196. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330813).

[25] Schaul T. 2012 Benchmarking separable natural evolution strategies on the noiseless and noisy black-box optimization testbeds. In: Auger A, Chotard A, Hansen N, Heidrich-Meisner V, Mersmann O, Posik P, Preuss M (eds.), *Black box optimization benchmarking 2012 (BBOB 2012)*, pp. 205–212. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330815).

[26] Voglis C, Piperagkas GS, Parsopoulos KE, Papageorgiou DG, Lagaris IE. 2012 Mempsode: an empirical assessment of local search algorithm impact on a memetic algorithm using noiseless testbed. In: Auger A, Chotard A, Hansen N, Heidrich-Meisner V, Mersmann O, Posik P, Preuss M (eds.), *Black box optimization benchmarking 2012 (BBOB 2012)*, pp. 245–252. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330820).

[27] Brockhoff D, Auger A, Hansen N. 2012 On the effect of mirroring in the ipop active cma-es on the noiseless bbob testbed. In: Auger A, Chotard A, Hansen N, Heidrich-Meisner V, Mersmann O, Posik P, Preuss M (eds.), *Black box optimization benchmarking 2012 (BBOB 2012)*, pp. 277–284. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330824).

[28] Zhang XF, Koshimura M, Fujita H, Hasegawa R. 2012 Hybrid particle swarm optimization and convergence analysis for scheduling problems. In: Stonedahl F, Riolo R (eds.), *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, pp. 307–314. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330829).

[29] Shafiee E, Zechman E. 2012 Integrating evolutionary computation and sociotechnical simulation for flushing contaminated water distribution systems. In: Stonedahl F, Riolo R (eds.), *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, pp. 315–322. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330830).

[30] Woodard CJ, Clemons EK. 2012 Modeling technology evolution using generalized genotype-phenotype maps. In: Stonedahl F, Riolo R (eds.), *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, pp. 323–330. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330831).

[31] van Lon RR, Holvoet T, Vanden Berghe G, Wenseleers T, Branke J. 2012 Evolutionary synthesis of multi-agent systems for dynamic dial-a-ride problems. In: Stonedahl F, Riolo R (eds.), *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, pp. 331–336. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330832).

[32] van Berkel S, Turi D, Pruteanu A, Dulman S. 2012 Automatic discovery of algorithms for multi-agent systems. In: Stonedahl F, Riolo R (eds.), *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, pp. 337–344. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330833).

[33] Ozisik AP, Harrington KI. 2012 The effects of tags on the evolution of honest signaling. In: Stonedahl F, Riolo R (eds.), *GECCO 2012 Evolutionary computation and multi-agent systems and simulation (ECoMASS)*, pp. 345–352. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330834).

[34] Doncieux S, Jin Y, Mouret JB. 2012 Evo-devo-robo workshop program. In: Doncieux S, Jin Y, Mouret JB (eds.), *GECCO 2012 Evolutionary developmental robotics*, pp. 355–356. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330836).

[35] Joachimczak M, Kowaliw T, Doursat R, Wróbel B. 2012 Evolving morphologies and controllers for soft-bodied multicellular animats using gene regulatory networks and artificial embryogenesis. In: Doncieux S, Jin Y, Mouret JB (eds.), *GECCO 2012 Evolutionary developmental robotics*, pp. 357–360. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330837).

[36] Palmer ME, Chou AK. 2012 An artificial visual cortex drives behavioral evolution in co-evolved predator and prey robots. In: Doncieux S, Jin Y, Mouret JB (eds.), *GECCO 2012 Evolutionary developmental robotics*, pp. 361–364. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330838).

[37] Rudinac M, Lenseigne B, Jonker PP. 2012 Empirical mode decomposition for saliency detection. In: Doncieux S, Jin Y, Mouret JB (eds.), *GECCO 2012 Evolutionary developmental robotics*, pp. 365–368. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330839).

[38] Ollion C, Pinville T, Doncieux S. 2012 Emergence of memory in neuroevolution: impact of selection pressures. In: Doncieux S, Jin Y, Mouret JB (eds.), *GECCO 2012 Evolutionary developmental robotics*, pp. 369–372. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330840).

[39] Lee P, Teng Y, Hsiao TC. 2012 Xcsf for prediction on emotion induced by image based on dimensional theory of emotion. In: Loiacono D, Orriols-Puig A, Urbanowicz R (eds.), *Fifteenth international workshop on learning classifier systems (ICWLS)*, pp. 375–382. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330842).

[40] Tinós R. 2012 Analysing fitness landscape changes in evolutionary robots. In: McClymont K, Keedwell E (eds.), *1st workshop on Understanding Problems (GECCO-UP)*, pp. 385–392. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330844).

[41] Pitzer E, Beham A, Affenzeller M. 2012 Generic hardness estimation using fitness and parameter landscapes applied to robust taboo search and the quadratic assignment problem. In: McClymont K, Keedwell E (eds.), *1st workshop on Understanding Problems (GECCO-UP)*, pp. 393–400. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330845).

[42] Spector L. 2012 Assessment of problem modality by differential performance of lexicase selection in genetic programming: a preliminary report. In: McClymont K, Keedwell E (eds.), *1st workshop on Understanding Problems (GECCO-UP)*, pp. 401–408. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330846).

[43] Garrett D. 2012 A call for collaborative landscape analysis. In: McClymont K, Keedwell E (eds.), *1st workshop on Understanding Problems (GECCO-UP)*, pp. 409–416. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330847).

[44] Tosch E, Spector L. 2012 Achieving cosmos: a metric for determining when to give up and when to reach for the stars. In: McClymont K, Keedwell E (eds.), *1st workshop on Understanding Problems (GECCO-UP)*, pp. 417–424. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330848).

[45] McClymont K, Walker D, Dupenois M. 2012 The lay of the land: a brief survey of problem understanding. In: McClymont K, Keedwell E (eds.), *1st workshop on Understanding Problems (GECCO-UP)*, pp. 425–432. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330849).

[46] Fernandes CM, Mora A, Merelo JJ, Fernández F, Rosa A. 2012 Generating colored 2-dimensional representations of sleep eeg with the kants clustering algorithm. In: Everson R, Fieldsend J, Walker D (eds.), *GECCO 2012 Visualisation methods for genetic and evolutionary computation (VizGEC)*, pp. 435–442. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330851).

[47] Walker D, Fieldsend J, Everson R. 2012 Visualising many-objective populations. In: Everson R, Fieldsend J, Walker D (eds.), *GECCO 2012 Visualisation methods for genetic and evolutionary computation (VizGEC)*, pp. 451–458. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330853).

[48] Kaliakatsos-Papakostas MA, Floros A, Kanellopoulos N, Vrahatis MN. 2012 Genetic evolution of l and fl-systems for the production of rhythmic sequences. In: Fernandez de Vega F, Cotta C (eds.), *GECCO 2012 Evolutionary music*, pp. 461–468. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330855).

[49] Rafael B, Affenzeller M, Wagner S. 2012 An adaption of the schema theorem to various crossover and mutation operators for a music segmentation problem. In: Fernandez de Vega F, Cotta C (eds.), *GECCO 2012 Evolutionary music*, pp. 469–476. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330856).

[50] Reis G, Fernandéz F, Ferreira A. 2012 Evolutionary algorithms and automatic transcription of music. In: Fernandez de Vega F, Cotta C (eds.), *GECCO 2012 Evolutionary music*, pp. 477–484. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330857).

[51] Aleb N, Kechid S. 2012 A new framework for scalable genetic programming. In: Gustafson S, Vladislavleva E (eds.), *GECCO 2012 Symbolic regression and modeling workshop*, pp. 487–492. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330859).

[52] Hemberg E, Veeramachaneni K, O'Reilly UM. 2012 Graphical models and what they reveal about gp when it solves a symbolic regression problem. In: Gustafson S, Vladislavleva E (eds.), *GECCO 2012 Symbolic regression and modeling workshop*, pp. 493–494. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330860).

[53] Bartz-Beielstein T, Flasch O, Zaefferer M. 2012 Sequential parameter optimization for symbolic regression. In: Gustafson S, Vladislavleva E (eds.), *GECCO 2012 Symbolic regression and modeling workshop*, pp. 495–496. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330861).

[54] Kotanchek M. 2012 Robust function discovery and feature selection for life sciences and engineering. In: Gustafson S, Vladislavleva E (eds.), *GECCO 2012 Symbolic regression and modeling workshop*, pp. 497–498. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330862).

[55] Darvish A, Rahnamayan S, Mohamad ZS. 2012 Interactive differential evolution for prostate ultrasound image thresholding. In: Smith SL, Cagnoni S, Patton RM (eds.), *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, pp. 501–508. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330864).

[56] Cagnoni S, Cordón O, Mesejo P, Nashed YS, Ugolotti R. 2012 First results and future developments of the mibisoc project in the ibislab of the university of parma. In: Smith SL, Cagnoni S, Patton RM (eds.), *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, pp. 509–516. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330865).

[57] Dumas L, Boutouyrie P, Bozec E. 2012 An optimal reconstruction of the human arterial tree from doppler echotracking measurements. In: Smith SL, Cagnoni S, Patton RM (eds.), *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, pp. 517–522. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330866).

[58] Rogalsky T. 2012 Bezier control parameterization for evolutionary optimization in disease models. In: Smith SL, Cagnoni S, Patton RM (eds.), *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, pp. 523–530. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330867).

[59] Bevilacqua V, Filograno G, Fiorentino M, Uva AE. 2012 Early diagnosis of lung tumors by genetically optimized 3d-metaball malignancy metric. In: Smith SL, Cagnoni S, Patton RM (eds.), *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, pp. 531–538. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330868).

[60] Tan M, Deklerck R, Jansen B, Cornelis J. 2012 Analysis of a feature-deselective neuroevolution classifier (fd-neat) in a computer-aided lung nodule detection system for ct images. In: Smith SL, Cagnoni S, Patton RM (eds.), *GECCO 2012 Medical applications of genetic and evolutionary computation workshop (MedGEC)*, pp. 539–546. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330869).

[61] Bernstein O. 2012 Flea market simulator: a market simulator for experiments on the computational evolution of trading strategies for economic agents. In: Goings S (ed.), *Tenth GECCO Undergraduate Student Workshop*, pp. 549–554. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330871).

[62] Gagne DJ. 2012 Gamiv: a genetic algorithm for identifying variable-lengthmotifs in noncoding dna. In: Goings S (ed.), *Tenth GECCO Undergraduate Student Workshop*, pp. 555–558. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330872).

[63] English A, Petruso H, Wang C. 2012 Grammatical evolution decision trees for trio designs. In: Goings S (ed.), *Tenth GECCO Undergraduate Student Workshop*, pp. 559–562. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330873).

[64] Thompson J. 2012 Trade-offs using gamid for the inference of dna motifs that are represented in only a subset of sequences of interest. In: Goings S (ed.), *Tenth GECCO Undergraduate Student Workshop*, pp. 563–568. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330874).

[65] Yeboah-Antwi K. 2012 Evolving software applications using genetic programming – pushcalc: the evolved calculator. In: Goings S (ed.), *Tenth GECCO Undergraduate Student Workshop*, pp. 569–572. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330875).

[66] Gao Y, Lv D. 2012 Principal coordinate strategy: a novel adaptive control strategy for differential evolution. In: Goings S (ed.), *Tenth GECCO Undergraduate Student Workshop*, pp. 573–578. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330876).

[67] Kuehn TJ. 2012 Evolutionary fabrication: a system of autonomous invention. In: Goings S (ed.), *Tenth GECCO Undergraduate Student Workshop*, pp. 579–584. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330877).

[68] Mlakar M, Tuaar T, Filipić B. 2012 Discrete vs. continuous multiobjective optimization of continuous casting of steel. In: Motsinger-Reif A (ed.), *GECCO 2012 Graduate Students Workshop*, pp. 587–590. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330879).

[69] Buzdalov M, Sokolov A. 2012 Evolving efsms solving a path-planning problem by genetic programming. In: Motsinger-Reif A (ed.), *GECCO 2012 Graduate Students Workshop*, pp. 591–594. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330880).

[70] Marvel S, Motsinger-Reif A. 2012 Grammatical evolution support vector machines for predicting human genetic disease association. In: Motsinger-Reif A (ed.), *GECCO 2012 Graduate Students Workshop*, pp. 595–598. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330881).

[71] Han S. 2012 Batting order optimization by genetic algorithm. In: Motsinger-Reif A (ed.), *GECCO 2012 Graduate Students Workshop*, pp. 599–602. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330882).

[72] Chivilikhin D, Ulyantsev V, Tsarev F. 2012 Test-based extended finite-state machines induction with evolutionary algorithms and ant colony optimization. In: Motsinger-Reif A (ed.), *GECCO 2012 Graduate Students Workshop*, pp. 603–606. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330883).

[73] Hoover K, Marceau R, Harris T, Reif D, Motsinger-Reif A. 2012 A comparison of ge optimized neural networks and decision trees. In: Motsinger-Reif A (ed.), *GECCO 2012 Graduate Students Workshop*, pp. 611–614. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330885).

[74] Yoon DM, Kim KJ. 2012 Comparison of scoring methods for interactive evolutionary computation based image retouching system. In: Rodriguez K, Blum C (eds.), *GECCO 2012 Late breaking abstracts workshop*, pp. 617–618. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330887).

[75] Comis Da Ronco C, Benini E. 2012 Gedea-ii: a simplex-crossover based multi objective evolutionary algorithm including the genetic diversity asobjective. In: Rodriguez K, Blum C (eds.), *GECCO 2012 Late breaking abstracts workshop*, pp. 619–620. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330888).

[76] Semenov MA, Stratonowitch P. 2012 Application of evolutionary algorithms for model calibration. In: Rodriguez K, Blum C (eds.), *GECCO 2012 Late breaking abstracts workshop*, pp. 621–622. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330889).

[77] Ellabaan MMH, Ong YS. 2012 Experiences on memetic computation for locating transition states in biochemical applications. In: Rodriguez K, Blum C (eds.), *GECCO 2012 Late breaking abstracts workshop*, pp. 623–624. Philadelphia, Pennsylvania, USA: ACM. (doi:doi: 10.1145/2330784.2330890).

[78] Mukherjee S, Eppstein MJ. 2012 Differential evolution of constants in genetic programming improves efficacy and bloat. In: Rodriguez K, Blum C (eds.), *GECCO 2012 Late breaking abstracts workshop*, pp. 625–626. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/ 2330784.2330891).

[79] Beliveau P, Hornby G, Bongard J. 2012 Interactive simulated robot construction and controller evolution. In: Rodriguez K, Blum C (eds.), *GECCO 2012 Late breaking abstracts workshop*, pp. 627–628. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330892).

[80] Tsutsui S, Fujimoto N. 2012 On the effect of using multiple gpus in solving qaps with cuda. In: Rodriguez K, Blum C (eds.), *GECCO 2012 Late breaking abstracts workshop*, pp. 629–630. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330893).

[81] Benbassat A, Sipper M. 2012 Evolving players that use selective game-tree search with genetic programming. In: Rodriguez K, Blum C (eds.), *GECCO 2012 Late breaking abstracts workshop*, pp. 631–632. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330894).

[82] Pilat M, Neruda R. 2012 A surrogate multiobjective evolutionary strategy with local search and pre-selection. In: Rodriguez K, Blum C (eds.), *GECCO 2012 Late breaking abstracts workshop*, pp. 633–634. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330895).

[83] Zaglauer S. 2012 The evolutionary algorithm samoa with use of dynamic constraints. In: Rodriguez K, Blum C (eds.), *GECCO 2012 Late breaking abstracts workshop*, pp. 635–636. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330896).

[84] Porta M, Julstrom BA. 2012 Evolving instances of unconstrained binary quadratic programming that challenge a tabu search heuristic. In: Rodriguez K, Blum C (eds.), *GECCO 2012 Late breaking abstracts workshop*, pp. 639–640. Philadelphia, Pennsylvania, USA: ACM. (doi:doi: 10.1145/2330784.2330898).

[85] soo Park H, Kim KJ. 2012 Automatic python programming using stack-based genetic programming. In: Rodriguez K, Blum C (eds.), *GECCO 2012 Late breaking abstracts workshop*, pp. 641–642. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330899).

[86] Fonlupt C, Robilliard D. 2012 Combining programs to counter code disruption. In: Rodriguez K, Blum C (eds.), *GECCO 2012 Late breaking abstracts workshop*, pp. 643–644. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330900).

[87] Srivastava RK, Schmidhuber J, Gomez F. 2012 Generalized compressed network search. In: Rodriguez K, Blum C (eds.), *GECCO 2012 Late breaking abstracts workshop*, pp. 647–648. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330902).

[88] Ho TY, Yu TL. 2012 A linkage-learning niching in estimation of distribution algorithm. In: Rodriguez K, Blum C (eds.), *GECCO 2012 Late breaking abstracts workshop*, pp. 649–650. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330903).

[89] Banerjee A. 2012 Density-based evolutionary outlier detection. In: Rodriguez K, Blum C (eds.), *GECCO 2012 Late breaking abstracts workshop*, pp. 651–652. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330904).

[90] Quiroz JC, Banerjee A, Louis SJ. 2012 3-d modeling using collaborative evolution. In: Rodriguez K, Blum C (eds.), *GECCO 2012 Late breaking abstracts workshop*, pp. 653–654. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330905).

[91] Iclanzan D, Gaskó N, Dumitrescu D. 2012 Evolving mixed nash equilibria for bimatrix games. In: Rodriguez K, Blum C (eds.), *GECCO 2012 Late breaking abstracts workshop*, pp. 655–656. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330906).

[92] Raway T, Schaffer DJ, Kurtz KJ, Sayama H. 2012 Evolving data sets to highlight the performance differences between machine learning classifiers. In: Rodriguez K, Blum C (eds.), *GECCO 2012 Late breaking abstracts workshop*, pp. 657–658. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330907).

[93] Celis SE, Bongard J. 2012 Not all physics simulators can be wrong in the same way. In: Rodriguez K, Blum C (eds.), *GECCO 2012 Late breaking abstracts workshop*, pp. 659–660. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330908).

[94] Ismail SB, Legras F, Coppin G. 2012 A new interactive evolutionary algorithm for the vehicle routing problem. In: Rodriguez K, Blum C (eds.), *GECCO 2012 Late breaking abstracts workshop*, pp. 661–668. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330909).

[95] Goodman ED. 2012 Introduction to genetic algorithms. In: Ochoa G (ed.), *GECCO 2012 Introductory tutorials*, pp. 671–692. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330911).

[96] O'Reilly UM. 2012 Genetic programming: a tutorial introduction. In: Ochoa G (ed.), *GECCO 2012 Introductory tutorials*, pp. 693–710. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330912).

[97] Baeck T. 2012 Evolution strategies: basic introduction. In: Ochoa G (ed.), *GECCO 2012 Introductory tutorials*, pp. 711–736. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330913).

[98] De Jong K. 2012 Evolutionary computation: a unified approach. In: Ochoa G (ed.), *GECCO 2012 Introductory tutorials*, pp. 737–750. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330914).

[99] Pelikan M. 2012 Probabilistic model-building genetic algorithms. In: Ochoa G (ed.), *GECCO 2012 Introductory tutorials*, pp. 777–804. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330916).

[100] Stanley KO. 2012 Evolving neural networks. In: Ochoa G (ed.), *GECCO 2012 Introductory tutorials*, pp. 805–826. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330917).

[101] Auger A, Hansen N. 2012 Tutorial cma-es: evolution strategies and covariance matrix adaptation. In: Ochoa G (ed.), *GECCO 2012 Advanced tutorials*, pp. 827–848. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330919).

[102] Coello Coello CA. 2012 Constraint-handling techniques used with evolutionary algorithms. In: Ochoa G (ed.), *GECCO 2012 Advanced tutorials*, pp. 849–872. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330920).

[103] Rothlauf F. 2012 Representations for evolutionary algorithms. In: Ochoa G (ed.), *GECCO 2012 Advanced tutorials*, pp. 873–894. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330921).

[104] Wineberg M. 2012 Statistical analysis for evolutionary computation: an introduction. In: Ochoa G (ed.), *GECCO 2012 Advanced tutorials*, pp. 895–916. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330922).

[105] Rowe JE. 2012 Genetic algorithm theory. In: Ochoa G (ed.), *GECCO 2012 Advanced tutorials*, pp. 917–940. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330923).

[106] Whitley D, Sutton A. 2012 Elementary landscapes: theory and applications. In: Ochoa G (ed.), *GECCO 2012 Advanced tutorials*, pp. 941–960. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330924).

[107] Verel S. 2012 Fitness landscapes and graphs: multimodularity, ruggedness and neutrality. In: Ochoa G (ed.), *GECCO 2012 Advanced tutorials*, pp. 1013–1034. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330927).

[108] Neumann F, Witt C. 2012 Bioinspired computation in combinatorial optimization: algorithms and their computational complexity. In: Ochoa G (ed.), *GECCO 2012 Advanced tutorials*, pp. 1035–1058. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330928).

[109] Jansen T, Zarges C. 2012 Artificial immune systems for optimisation. In: Ochoa G (ed.), *GECCO 2012 Specialized techniques and applications tutorials*, pp. 1059–1078. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330930).

[110] Doerr B. 2012 Black-box complexity: from complexity theory to playing mastermind. In: Ochoa G (ed.), *GECCO 2012 Specialized techniques and applications tutorials*, pp. 1079–1092. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330931).

[111] Miller JF, Harding S. 2012 Gecco 2012 tutorial: cartesian genetic programming. In: Ochoa G (ed.), *GECCO 2012 Specialized techniques and applications tutorials*, pp. 1093–1116. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330932).

[112] Collet P, Harding S. 2012 Evolutionary algorithms and genetic programming on graphic processing units (gpu). In: Ochoa G (ed.), *GECCO 2012 Specialized techniques and applications tutorials*, pp. 1117–1138. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330933).

[113] Loiacono D, PreußM. 2012 Computational intelligence in games. In: Ochoa G (ed.), *GECCO 2012 Specialized techniques and applications tutorials*, pp. 1139–1140. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330934).

[114] Bush WS. 2012 Introduction to bioinformatics and computational biology. In: Ochoa G (ed.), *GECCO 2012 Specialized techniques and applications tutorials*, pp. 1141–1170. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330935).

[115] Bacardit J, Llorà X. 2012 Large scale data mining using genetics-based machine learning. In: Ochoa G (ed.), *GECCO 2012 Specialized techniques and applications tutorials*, pp. 1171–1196. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330936).

[116] Ochoa G. 2012 Hyper-heuristics and cross-domain optimization. In: Ochoa G (ed.), *GECCO 2012 Specialized techniques and applications tutorials*, pp. 1197–1214. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330937).

[117] Sudholt D. 2012 Theory of swarm intelligence. In: Ochoa G (ed.), *GECCO 2012 Specialized techniques and applications tutorials*, pp. 1215–1238. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330938).

[118] Lehre PK. 2012 Drift analysis. In: Ochoa G (ed.), *GECCO 2012 Specialized techniques and applications tutorials*, pp. 1239–1258. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330939).

[119] Wagner S, Kronberger G. 2012 Algorithm and experiment design with heuristic lab: an open source optimization environment for research and education. In: Ochoa G (ed.), *GECCO 2012 Specialized techniques and applications tutorials*, pp. 1287–1316. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330941).

[120] Moraglio A. 2012 Geometry of evolutionary algorithms. In: Ochoa G (ed.), *GECCO 2012 Specialized techniques and applications tutorials*, pp. 1317–1344. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330942).

[121] Forrest S, LeGoues C. 2012 Evolutionary software repair. In: Ochoa G (ed.), *GECCO 2012 Specialized techniques and applications tutorials*, pp. 1345–1348. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330943).

[122] Longo G, Montévil M, Kauffman S. 2012 No entailing laws, but enablement in the evolution of the biosphere. In: Moore JH (ed.), *GECCO 2012 Keynote talks*, pp. 1379–1392. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330946).

[123] Schoonover CE. 2012 How to look inside the brain. In: Moore JH (ed.), *GECCO 2012 Keynote talks*, pp. 1393–1394. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330947).

[124] Abdelbar AM, Wunsch DC. 2012 Improving the performance of max-min ant system on the tsp using stubborn ants. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1395–1396. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330949).

[125] Rajasekhar A, Das S, Das S. 2012 muabc: a micro artificial bee colony algorithm for large scale global optimization. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1399–1400. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330951).

[126] Richard WK, Majercik SM. 2012 Swarm-based path creation in dynamic environments for search and rescue. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1401–1402. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330952).

[127] Setayesh M, Zhang M, Johnston M. 2012 A spatial random-meaningful neighbourhood topology in pso for edge detection in noisy images. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1403–1404. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330953).

[128] Bongard J, Beliveau P, Hornby G. 2012 Avoiding local optima with interactive evolutionary robotics. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1405–1406. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330955).

[129] Byers C, Cheng B, McKinley P. 2012 Exploring the evolution of internal control structure using digital enzymes. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1407–1408. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330956).

[130] Knudson M, Tumer K. 2012 Policy transfer in mobile robots using neuro-evolutionary navigation. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva

DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1411–1412. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330958).

[131] Castellini A, Manca V, Zucchelli M, Busato M. 2012 A genetic approach for synthesizing metabolic models from time series. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1415–1416. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784. 2330961).

[132] Jimbo HC, Craven MJ. 2012 A dynamical model of cancer chemotherapy with disturbance. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1417–1418. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330962).

[133] Komiya K, Noman N, Iba H. 2012 The search for robust topologies of oscillatory gene regulatory networks by evolutionary computation. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1419–1420. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784. 2330963).

[134] Nobile MS, Besozzi D, Cazzaniga P, Mauri G, Pescini D. 2012 Estimating reaction constants in stochastic biological systems with a multi-swarm pso running on gpus. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1421–1422. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330964).

[135] Palafox L, Hitoshi I. 2012 Gene regulatory network reverse engineering using population based incremental learning and k-means. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1423–1424. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784. 2330965).

[136] Pascalie J, Lobjois V, Luga H, Ducommun B, Duthen Y. 2012 Checkpoint oriented cell-cycle simulation: critical role for age distribution initialization. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1425–1426. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/ 2330784.2330966).

[137] Hsueh CH, Yu TL. 2012 Affective content based music video paring system using real coded ga. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1427–1428. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330968).

[138] Helmi BH, Pelikan M, Rahmani AT. 2012 Linkage learning using the maximum spanning tree of the dependency graph. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1429–1430. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330970).

[139] Regis RG. 2012 Surrogate-assisted evolutionary programming for high dimensional constrained black-box optimization. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth*

international conference on Genetic and evolutionary computation conference companion, pp. 1431–1432. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330972).

[140] Carneiro MG, Oliveira GMB. 2012 Synchronous cellular automata scheduler with construction heuristic to static task scheduling in multiprocessors. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1433–1434. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330974).

[141] Kattan A, Fatima S. 2012 Evolving optimal agendas and strategies for negotiation in dynamic environments: a surrogate based approach. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1435–1436. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330975).

[142] Mani N, Srivastava G, Sinha AK, Mani A. 2012 An evaluation of cellular population model for improving quantum-inspired evolutionary algorithm. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1437–1438. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330976).

[143] García ER, Gutiérrez RM, Velázquez PL, Ponsich A, Ángel Gutiérrez Andrade M, De Los Cobos Silva S. 2012 A discrete artificial bee colony algorithm for the multi-objective redistricting problem. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1439–1440. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330977).

[144] Rocki K, Suda R. 2012 An efficient gpu implementation of a multi-start tsp solver for large problem instances. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1441–1442. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330978).

[145] Nasir M, Sengupta S, Das S, Das S. 2012 Configuration of sensors on a 3-d terrain: an approach based on evolutionary multi-objective optimization. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1443–1444. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330980).

[146] Amiri B, Hossain L, Crowford J. 2012 A multiobjective hybrid evolutionary algorithm for clustering in social networks. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1445–1446. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330981).

[147] Matoso L, Junior F, Pereira A, Veloso A, Wagner Meira J. 2012 New evolutionary approaches to high-dimensional data. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1447–1448. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330982).

[148] Sepúlveda MJ, Chau W, Strum M, Pedraza C, Gogniat G, Pires R. 2012 Multi-objective artificial immune algorithm for security-constrained multi-application noc mapping. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and*

evolutionary computation conference companion, pp. 1449–1450. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330983).

[149] Zaefferer M, Bartz-Beielstein T, Friese M, Naujoks B, Flasch O. 2012 Multi-criteria optimization for hard problems under limited budgets. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1451–1452. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330984).

[150] Gomez F, Koutník J, Schmidhuber J. 2012 Complexity search for compressed neural networks. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1455–1456. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330987).

[151] Rieffel J, Smith S. 2012 Growing and evolving soft robots with a face-encoding tetrahedral grammar. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1457–1458. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330988).

[152] Bazargani M, Anjos A, Lobo F, Mollahosseini A, Shahbazkia H. 2012 Affine image registration transformation estimation using a real coded genetic algorithm with sbx. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1459–1460. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330990).

[153] Burjorjee K. 2012 Explaining adaptation in genetic algorithms with uniform crossover: the hyperclimbing hypothesis. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1461–1462. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330991).

[154] Julstrom BA. 2012 Clans and cooperation in the iterated prisoner's dilemma. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1463–1464. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330992).

[155] Oliwa T, Rasheed K. 2012 A surrogate-assisted and informed linkage aware ga. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1467–1468. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330994).

[156] Ranjeet T, Hingston P, Lam CP, Masek M. 2012 Evaluating coevolution on a multimodal problem. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1469–1470. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330995).

[157] Ryerkerk M, Averill R, Deb K, Goodman E. 2012 Meaningful representation and recombination of variable length genomes. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1471–1472. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330996).

[158] Santana R, Mendiburu A, Lozano J. 2012 Evolving nk-complexity for evolutionary solvers. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1473–1474. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330997).

[159] Tsai CW, Lin TY, Chiang MC, Yang CS, Hong TP. 2012 Continuous space pattern reduction for genetic clustering algorithm. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1475–1476. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2330998).

[160] Behzadan B, Smith RE. 2012 An information-based approach towards neuro-evolution. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1491–1492. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331008).

[161] Fredivianus N, Kara K, Schmeck H. 2012 Stay real!: Xcs with rule combining for real values. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1493–1494. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331009).

[162] Gullo F, Talukder AK, Luke S, Domeniconi C, Tagarelli A. 2012 Multiobjective optimization of co-clustering ensembles. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1495–1496. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331010).

[163] Bartoli A, Davanzo G, De Lorenzo A, Mauri M, Medvet E, Sorio E. 2012 Automatic generation of regular expressions from examples with genetic programming. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1477–1478. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331000).

[164] Nourashrafeddin S, Arnold D, Milios E. 2012 An evolutionary subspace clustering algorithm for high-dimensional data. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1497–1498. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331011).

[165] Correia J, Machado P, Romero J. 2012 Improving haar cascade classifiers through the synthesis of new training examples. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1479–1480. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331001).

[166] Fagan D, Hemberg E, Nicolau M, O'Neill M, McGarraghy S. 2012 Towards adaptive mutation in grammatical evolution. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1481–1482. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331002).

[167] Schneider N. 2012 Generic prognosis with evolutionary approaches. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1501–1502. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331013).

[168] Fu W, Johnston M, Zhang M. 2012 Genetic programming for edge detection based on figure of merit. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1483–1484. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331003).

[169] Sun Q, Pfahringer B, Mayo M. 2012 Full model selection in the space of data mining operators. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1503–1504. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331014).

[170] Helmuth T, Spector L. 2012 Empirical investigation of size-based tournaments for node selection in genetic programming. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1485–1486. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331004).

[171] Krawiec K, Pawlak T. 2012 Locally geometric semantic crossover. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1487–1488. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331005).

[172] Trujillo L, Martinez Y, Lopez EG, Legrand P. 2012 A comparative study of an evolvability indicator and a predictor of expected performance for genetic programming. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1489–1490. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331006).

[173] Coletti M. 2012 The effects of training set size and keeping rules on the emergent selection pressure of learnable evolution model. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1505–1506. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331016).

[174] Jebari K, Bouroumi A, Ettouhami A. 2012 Genetic fuzzy rules for dops. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1507–1508. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331017).

[175] long Li Y, Zhang J, neng Chen W. 2012 Differential evolution algorithm with pca-based crossover. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1509–1510. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331018).

[176] Maturana J, Vergara F, Rojas C, Saubion F, Vargas F, Vidal D. 2012 Improving clonal colony optimization to evolve robust solutions. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1511–1512. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331019).

[177] hui Zhan Z, Zhang J. 2012 Enhance differential evolution with random walk. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic*

and evolutionary computation conference companion, pp. 1513–1514. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331020).

[178] Merelo-Guervós JJ, Mora AM, Esparcia AI, Fernandes CM. 2012 Validating design choices in a pool-based distributed evolutionary algorithms architecture. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1517–1518. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331023).

[179] Noroozi V, Hashemi AB, Meybodi MR. 2012 Alpinist cellularde: a cellular based optimization algorithm for dynamic environments. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1519–1520. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331024).

[180] Alford A, Adams J, Shelton J, Bryant K, Kelly J, Dozier G. 2012 Analyzing the cross-generalization ability of a hybrid genetic & evolutionary application for multibiometric feature weighting and selection. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1521–1522. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331026).

[181] Bazzan AL. 2012 Co-evolution of the dynamics in population games: the case of traffic flow assignment. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1523–1524. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331027).

[182] Kim J, Moon BR. 2012 New malware detection system using metric-based method and hybrid genetic algorithm. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1527–1528. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331029).

[183] Ono S, Nakayama S. 2012 User-system cooperative evolution for japanese anagram sentence generation. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1529–1530. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331030).

[184] Pinto J, Horta N. 2012 Automated passive filter design using multi-objective genetic algorithms with variable parameters. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1531–1532. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331031).

[185] Sher GI. 2012 Forex trading using geometry sensitive neural networks. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1533–1534. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331032).

[186] Soltero FJ, Bodas-Sagi DJ, Fernández-Blanco P, Hidalgo JI, de Vega FF. 2012 Optimization of technical indicators in real time with multiobjective evolutionary algorithms. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1535–1536. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331033).

[187] Suciu M, Cremene M, Pop F, Dumitrescu D. 2012 Equitable solutions in qos-aware service optimization. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1537–1538. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331034).

[188] Yefimochkin O, Neves R, Horta N. 2012 An evolutionary approach to define investment strategies based on macroeconomic indicators and vix data. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1539–1540. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/ 2330784.2331035).

[189] de Oliveira Barros M, Costa HR, Figueiredo FV, Cavalcanti da Rocha AR. 2012 Multiobjective optimization for project portfolio selection. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1541–1542. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784. 2331037).

[190] Chen N, Zhang J, Liu O. 2012 Adaptive genetic algorithm based on density distribution of population. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1543–1544. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331039).

[191] López-Camacho E, Terashima-Marín H, Conant-Pablos SE. 2012 The impact of the bin packing problem structure in hyper-heuristic performance. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1545–1546. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/ 2330784.2331040).

[192] Manukyan N, Eppstein MJ, Horbar JD, Leahy KA, Kenny MJ, Mukherjee S, Rizzo DM. 2012 Evolutionary mining for multivariate associations in large time-varying data sets: a healthcare network application. In: Soule T, Auger A, Moore J, Pelta D, Solnon C, Preuss M, Dorin A, Ong YS, Blum C, Silva DL, *et al.* (eds.), *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*, pp. 1547–1548. Philadelphia, Pennsylvania, USA: ACM. (doi:doi:10.1145/2330784.2331041).

[193] Rand B, Tantar AA, Tantar E, Bosman PA, Padhye N, Baughman A, Van Der Stock S, Perlitz M, Gustafson SM, Jesneck J, *et al.* (eds.). 2012 *GECCO Companion '12: Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference companion*. Philadelphia, Pennsylvania, USA.