Список литературы

- [1] ZHOU, Y. et al., Particle swarm optimization with triggered mutation and its implementation based on gpu, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1–8, Portland, Oregon, USA, 2010, ACM.
- [2] CHEN, Z. et al., Particle swarm optimizer with self-adjusting neighborhoods, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 9–14, Portland, Oregon, USA, 2010, ACM.
- [3] VANNESCHI, L. et al., An empirical comparison of parallel and distributed particle swarm optimization methods, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 15–22, Portland, Oregon, USA, 2010, ACM.
- [4] LIN, Y. et al., An ant-colony-system-based activity scheduling method for the lifetime maximization of heterogeneous wireless sensor networks, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 23–30, Portland, Oregon, USA, 2010, ACM.
- [5] JIE YU, W. et al., Pheromone-distribution-based adaptive ant colony system, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 31–38, Portland, Oregon, USA, 2010, ACM.
- [6] ZHAN, Z.-H. et al., Self-adaptive differential evolution based on pso learning strategy, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 39–46, Portland, Oregon, USA, 2010, ACM.
- [7] LEMMENS, N. et al., Stigmergic landmark routing: a routing algorithm for wireless mobile ad-hoc networks, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 47–54, Portland, Oregon, USA, 2010, ACM.
- [8] DEB, K. et al., Development of efficient particle swarm optimizers by using concepts from evolutionary algorithms, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 55–62, Portland, Oregon, USA, 2010, ACM.
- [9] NEUMANN, F. et al., A few ants are enough: Aco with iteration-best update, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 63–70, Portland, Oregon, USA, 2010, ACM.
- [10] LOPEZ-IBANEZ, M. et al., The impact of design choices of multiobjective antcolony optimization algorithms on performance: an experimental study on the biobjective tsp, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 71–78, Portland, Oregon, USA, 2010, ACM.
- [11] SALIM, S. et al., Honey-bee dancing-inspired architecture for fault tolerance in wireless sensor networks, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 79–80, Portland, Oregon, USA, 2010, ACM.
- [12] MOHEMMED, A. W. et al., Particle swarm optimisation for outlier detection, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 83–84, Portland, Oregon, USA, 2010, ACM.
- [13] BROWN, J. B. et al., Pseudo-hierarchical ant-based clustering using a heterogeneous agent hierarchy and automatic boundary formation, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 85–86, Portland, Oregon, USA, 2010, ACM.

- [14] DUCATELLE, F. et al., Cooperative self-organization in a heterogeneous swarm robotic system, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 87–94, Portland, Oregon, USA, 2010, ACM.
- [15] PILAT, M. L. et al., Evolution of vision capabilities in embodied virtual creatures, in *GECCO* '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 95–102, Portland, Oregon, USA, 2010, ACM.
- [16] LEHMAN, J. et al., Revising the evolutionary computation abstraction: minimal criteria novelty search, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 103–110, Portland, Oregon, USA, 2010, ACM.
- [17] BONGARD, J. C. et al., Guarding against premature convergence while accelerating evolutionary search, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 111–118, Portland, Oregon, USA, 2010, ACM.
- [18] KOOS, S. et al., Crossing the reality gap in evolutionary robotics by promoting transferable controllers, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 119–126, Portland, Oregon, USA, 2010, ACM.
- [19] KNUDSON, M. et al., Coevolution of heterogeneous multi-robot teams, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 127–134, Portland, Oregon, USA, 2010, ACM.
- [20] GOLDSBY, H. J. et al., Evolution of division of labor in genetically homogenous groups, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 135–142, Portland, Oregon, USA, 2010, ACM.
- [21] CONNELLY, B. D. et al., Resource abundance promotes the evolution of public goods cooperation, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 143–150, Portland, Oregon, USA, 2010, ACM.
- [22] HILLER, J. D. et al., Morphological evolution of freeform robots, in *GECCO '10: Proceedings* of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 151–152, Portland, Oregon, USA, 2010, ACM.
- [23] FERNANDO, C., Neuronal replicators solve the stability-plasticity dilemma, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 153–154, Portland, Oregon, USA, 2010, ACM.
- [24] WONG, K.-C. et al., Protein structure prediction on a lattice model via multimodal optimization techniques, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 155–162, Portland, Oregon, USA, 2010, ACM.
- [25] FARINACCIO, A. et al., On the use of genetic programming for the prediction of survival in cancer, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 163–170, Portland, Oregon, USA, 2010, ACM.
- [26] LO, L.-Y. et al., Challenges rising from learning motif evaluation functions using genetic programming, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 171–178, Portland, Oregon, USA, 2010, ACM.
- [27] KAMATH, U. et al., Selecting predictive features for recognition of hypersensitive sites of regulatory genomic sequences with an evolutionary algorithm, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 179–186, Portland, Oregon, USA, 2010, ACM.

- [28] GARCÍA-MARTÍNEZ, C. et al., P system model optimisation by means of evolutionary based search algorithms, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 187–194, Portland, Oregon, USA, 2010, ACM.
- [29] URBANOWICZ, R. J. et al., The application of michigan-style learning classifiersystems to address genetic heterogeneity and epistasisin association studies, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 195–202, Portland, Oregon, USA, 2010, ACM.
- [30] HOLZINGER, E. R. et al., Initialization parameter sweep in athena: optimizing neural networks for detecting gene-gene interactions in the presence of small main effects, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 203–210, Portland, Oregon, USA, 2010, ACM.
- [31] ATILGAN, E. et al., Efficient protein-ligand docking using sustainable evolutionary algorithm, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 211–212, Portland, Oregon, USA, 2010, ACM.
- [32] KUBALIK, J. et al., Solving the dna fragment assembly problem efficiently using iterative optimization with evolved hypermutations, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 213–214, Portland, Oregon, USA, 2010, ACM.
- [33] SINNOTT-ARMSTRONG, N. A. et al., Fast genome-wide epistasis analysis using ant colony optimization for multifactor dimensionality reduction analysis on graphics processing units, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 215–216, Portland, Oregon, USA, 2010, ACM.
- [34] JIANG, H. et al., An efficient algorithm for generalized minimum spanning tree problem, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 217–224, Portland, Oregon, USA, 2010, ACM.
- [35] IORDACHE, S., Consultant-guided search: a new metaheuristic for combinatorial optimization problems, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 225–232, Portland, Oregon, USA, 2010, ACM.
- [36] WU, S. X. et al., A hierarchical cooperative evolutionary algorithm, in *GECCO '10: Proceedings* of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 233–240, Portland, Oregon, USA, 2010, ACM.
- [37] BIBAI, J. et al., On the generality of parameter tuning in evolutionary planning, in *GECCO* '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 241–248, Portland, Oregon, USA, 2010, ACM.
- [38] HILDEBRANDT, T. et al., Towards improved dispatching rules for complex shop floor scenarios: a genetic programming approach, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 257–264, Portland, Oregon, USA, 2010, ACM.
- [39] LEUNG, K. M. et al., Discrete versus continuous parametrization of bank credit rating systems optimization using differential evolution, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 265–272, Portland, Oregon, USA, 2010, ACM.
- [40] STONEDAHL, F. et al., Heuristics for sampling repetitions in noisy landscapes with fitness caching, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 273–280, Portland, Oregon, USA, 2010, ACM.

- [41] REN, Z. et al., An ant colony optimization approach to the multiple-choice multidimensional knapsack problem, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 281–288, Portland, Oregon, USA, 2010, ACM.
- [42] DOğAN, E. et al., Optimum design of grillage systems under code provisions using particle swarm optimization, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 289–290, Portland, Oregon, USA, 2010, ACM.
- [43] MERELO, J. J. et al., Beating exhaustive search at its own game: revisiting evolutionary mastermind, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 291–292, Portland, Oregon, USA, 2010, ACM.
- [44] TSAI, C.-W. et al., A framework for accelerating metaheuristics via pattern reduction, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 293–294, Portland, Oregon, USA, 2010, ACM.
- [45] KIMBROUGH, S. O. et al., Effective heuristic methods for finding non-optimal solutions of interest in constrained optimization models, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 295–296, Portland, Oregon, USA, 2010, ACM.
- [46] LóPEZ-CAMACHO, E. et al., Problem-state representations in a hyper-heuristic approach for the 2d irregular bpp, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 297–298, Portland, Oregon, USA, 2010, ACM.
- [47] MONTERO, E. et al., An evaluation of off-line calibration techniques for evolutionary algorithms, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 299–300, Portland, Oregon, USA, 2010, ACM.
- [48] STEITZ, W. et al., Solving ocst problems with problem-specific guided local search, in *GECCO* '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 301–302, Portland, Oregon, USA, 2010, ACM.
- [49] RADETIC, E. et al., Spurious dependencies and eda scalability, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 303–310, Portland, Oregon, USA, 2010, ACM.
- [50] CHUANG, C.-Y. et al., Multivariate multi-model approach for globally multimodal problems, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 311–318, Portland, Oregon, USA, 2010, ACM.
- [51] HUI ZHONG, J. et al., A robust estimation of distribution algorithm for power electronic circuits design, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 319–326, Portland, Oregon, USA, 2010, ACM.
- [52] YANG, J. et al., Effective structure learning for eda via l1-regularized bayesian networks, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 327–334, Portland, Oregon, USA, 2010, ACM.
- [53] LUONG, H. N. et al., Entropy-based substructural local search for the bayesian optimization algorithm, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 335–342, Portland, Oregon, USA, 2010, ACM.
- [54] NGUYEN, H. T. et al., Entropy measurement-based estimation model for bayesian optimization algorithm, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 343–350, Portland, Oregon, USA, 2010, ACM.

- [55] BOSMAN, P. A., The anticipated mean shift and cluster registration in mixture-based edas for multi-objective optimization, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 351–358, Portland, Oregon, USA, 2010, ACM.
- [56] SALINAS-GUTIÉRREZ, R. et al., D-vine eda: a new estimation of distribution algorithm based on regular vines, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 359–366, Portland, Oregon, USA, 2010, ACM.
- [57] NIKANJAM, A. et al., A new dsm clustering algorithm for linkage groups identification, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 367–368, Portland, Oregon, USA, 2010, ACM.
- [58] MELKOZEROV, A. et al., On the analysis of self-adaptive evolution strategies on elliptic model: first results, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 369–376, Portland, Oregon, USA, 2010, ACM.
- [59] CHWATAL, A. M. et al., Fitting multi-planet transit models to photometric time-data series by evolution strategies, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 377–384, Portland, Oregon, USA, 2010, ACM.
- [60] ARNOLD, D. V. et al., Active covariance matrix adaptation for the (1+1)-cma-es, in *GECCO* '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 385–392, Portland, Oregon, USA, 2010, ACM.
- [61] GLASMACHERS, T. et al., Exponential natural evolution strategies, in *GECCO '10: Proceedings* of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 393–400, Portland, Oregon, USA, 2010, ACM.
- [62] PREUSS, M. et al., Tuning optimization algorithms for real-world problems by means of surrogate modeling, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 401–408, Portland, Oregon, USA, 2010, ACM.
- [63] GONG, W. et al., Adaptive strategy selection in differential evolution, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 409–416, Portland, Oregon, USA, 2010, ACM.
- [64] MA, H. et al., Biogeography-based optimization with blended migration for constrained optimization problems, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 417–418, Portland, Oregon, USA, 2010, ACM.
- [65] GONZALES, E. et al., Pruning association rules using statistics and genetic relation algoritm, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 419–420, Portland, Oregon, USA, 2010, ACM.
- [66] SHIR, O. M. et al., Forced optimal covariance adaptive learning: modified cma-es for efficient hessian determination, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 421–422, Portland, Oregon, USA, 2010, ACM.
- [67] LIU, R. et al., A sphere-dominance based preference immune-inspired algorithm for dynamic multi-objective optimization, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 423–430, Portland, Oregon, USA, 2010, ACM.

- [68] LOCHTEFELD, D. F. et al., Deterministic helper-objective sequences applied to job-shop scheduling, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 431–438, Portland, Oregon, USA, 2010, ACM.
- [69] SCHRUM, J. et al., Evolving agent behavior in multiobjective domains using fitness-based shaping, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 439–446, Portland, Oregon, USA, 2010, ACM.
- [70] ULRICH, T. et al., Integrating decision space diversity into hypervolume-based multiobjective search, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 455–462, Portland, Oregon, USA, 2010, ACM.
- [71] LI, M. et al., A grid-based fitness strategy for evolutionary many-objective optimization, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 463–470, Portland, Oregon, USA, 2010, ACM.
- [72] LOSHCHILOV, I. et al., A mono surrogate for multiobjective optimization, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 471–478, Portland, Oregon, USA, 2010, ACM.
- [73] SHARMA, D. et al., An archived-based stochastic ranking evolutionary algorithm (asrea) for multi-objective optimization, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 479–486, Portland, Oregon, USA, 2010, ACM.
- [74] VOSS, T. et al., Improved step size adaptation for the mo-cma-es, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 487–494, Portland, Oregon, USA, 2010, ACM.
- [75] BERGHAMMER, R. et al., Set-based multi-objective optimization, indicators, and deteriorative cycles, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 495–502, Portland, Oregon, USA, 2010, ACM.
- [76] KRAMER, O. et al., Dbscan-based multi-objective niching to approximate equivalent paretosubsets, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary* computation, edited by BRANKE, J. et al., pages 503–510, Portland, Oregon, USA, 2010, ACM.
- [77] BRINGMANN, K. et al., The maximum hypervolume set yields near-optimal approximation, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 511–518, Portland, Oregon, USA, 2010, ACM.
- [78] ISHIBUCHI, H. et al., Simultaneous use of different scalarizing functions in moea/d, in *GECCO* '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 519–526, Portland, Oregon, USA, 2010, ACM.
- [79] FOLINO, F. et al., Multiobjective evolutionary community detection for dynamic networks, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 535–536, Portland, Oregon, USA, 2010, ACM.
- [80] Zapotecas Martínez, S. et al., A multi-objective meta-model assisted memetic algorithm with non gradient-based local search, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 537–538, Portland, Oregon, USA, 2010, ACM.
- [81] DUMITRESCU, D. et al., Exploring evolutionary detected fuzzy equilibria: a link between normative theory and real life, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 539–540, Portland, Oregon, USA, 2010, ACM.

- [82] HUTZSCHENREUTER, A. K. et al., Enhanced hospital resource management using anticipatory policies in online dynamic multi-objective optimization, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 541–542, Portland, Oregon, USA, 2010, ACM.
- [83] SCHMIDT, M. D. et al., Age-fitness pareto optimization, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 543–544, Portland, Oregon, USA, 2010, ACM.
- [84] MARTÍ, L. et al., Moving away from error-based learning in multi-objective estimation of distribution algorithms, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 545–546, Portland, Oregon, USA, 2010, ACM.
- [85] VERBANCSICS, P. et al., Transfer learning through indirect encoding, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 547–554, Portland, Oregon, USA, 2010, ACM.
- [86] DOWNING, K. L., The baldwin effect in developing neural networks, in *GECCO '10: Proceedings* of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 555–562, Portland, Oregon, USA, 2010, ACM.
- [87] RISI, S. et al., Evolving the placement and density of neurons in the hyperneat substrate, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 563–570, Portland, Oregon, USA, 2010, ACM.
- [88] STEINER, T. et al., Evolving heterochrony for cellular differentiation using vector field embryogeny, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 571–578, Portland, Oregon, USA, 2010, ACM.
- [89] HARDING, S. et al., Self modifying cartesian genetic programming: finding algorithms that calculate pi and e to arbitrary precision, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 579–586, Portland, Oregon, USA, 2010, ACM.
- [90] MOURET, J.-B. et al., Importing the computational neuroscience toolbox into neuro-evolution-application to basal ganglia, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 587–594, Portland, Oregon, USA, 2010, ACM.
- [91] TREFZER, M. A. et al., Image compression of natural images using artificial gene regulatory networks, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 595–602, Portland, Oregon, USA, 2010, ACM.
- [92] KNOESTER, D. B. et al., Neuroevolution of mobile ad hoc networks, in *GECCO '10: Proceedings* of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 603–610, Portland, Oregon, USA, 2010, ACM.
- [93] MORIGUCHI, H. et al., Sustaining behavioral diversity in neat, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 611–618, Portland, Oregon, USA, 2010, ACM.
- [94] KOUTNIK, J. et al., Evolving neural networks in compressed weight space, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 619–626, Portland, Oregon, USA, 2010, ACM.
- [95] AUERBACH, J. E. et al., Evolving cppns to grow three-dimensional physical structures, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 627–634, Portland, Oregon, USA, 2010, ACM.

- [96] CLUNE, J. et al., Investigating whether hyperneat produces modular neural networks, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 635–642, Portland, Oregon, USA, 2010, ACM.
- [97] INDEN, B. et al., Neatfields: evolution of neural fields, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 645–646, Portland, Oregon, USA, 2010, ACM.
- [98] SOULE, T. et al., A developmental algorithm for multi-agent swarms with scalable hierarchies, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 647–648, Portland, Oregon, USA, 2010, ACM.
- [99] COLLIER, R. et al., Approaches to multidimensional scaling for adaptive landscape visualization, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 649–656, Portland, Oregon, USA, 2010, ACM.
- [100] BENJAMIN, J. et al., Breaking ties with secondary fitness in a genetic algorithm for the bin packing problem, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 657–664, Portland, Oregon, USA, 2010, ACM.
- [101] PELIKAN, M., Nk landscapes, problem difficulty, and hybrid evolutionary algorithms, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 665–672, Portland, Oregon, USA, 2010, ACM.
- [102] YEHOSHUA, R. et al., Analysis of the effects of lifetime learning on population fitness using vose model, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 681–688, Portland, Oregon, USA, 2010, ACM.
- [103] TULSHYAN, R. et al., Investigating ea solutions for approximate kkt conditions in smooth problems, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 689–696, Portland, Oregon, USA, 2010, ACM.
- [104] LIEN, T.-C. et al., Co-evolution of cooperative strategies under egoism, in *GECCO '10:* Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 697–704, Portland, Oregon, USA, 2010, ACM.
- [105] JANSEN, T. et al., Aging beyond restarts, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 705–712, Portland, Oregon, USA, 2010, ACM.
- [106] HAUSCHILD, M. W. et al., Network crossover performance on nk landscapes and deceptive problems, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 713–720, Portland, Oregon, USA, 2010, ACM.
- [107] VAFAEE, F. et al., Optimizing genetic operator rates using a markov chain model of genetic algorithms, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 721–728, Portland, Oregon, USA, 2010, ACM.
- [108] WEN, Y. et al., A heuristic-based hybrid genetic algorithm for heterogeneous multiprocessor scheduling, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 729–736, Portland, Oregon, USA, 2010, ACM.
- [109] UNACHAK, P. et al., Solving multiobjective flexible job-shop scheduling using an adaptive representation, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 737–742, Portland, Oregon, USA, 2010, ACM.

- [110] de Mendonca Neta, B. M. et al., A hybrid genetic algorithm for automatic graph drawing based on the topology-shape-metric approach, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 743–750, Portland, Oregon, USA, 2010, ACM.
- [111] BARRETO, A. M. et al., Probabilistic performance profiles for the experimental evaluation of stochastic algorithms, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 751–758, Portland, Oregon, USA, 2010, ACM.
- [112] DOERR, B. et al., Edge-based representation beats vertex-based representation in shortest path problems, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 759–766, Portland, Oregon, USA, 2010, ACM.
- [113] ÁLVARO FIALHO et al., Toward comparison-based adaptive operator selection, in *GECCO* '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 767–774, Portland, Oregon, USA, 2010, ACM.
- [114] GALAN, S. F. et al., Generalized crowding for genetic algorithms, in *GECCO '10: Proceedings* of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 775–782, Portland, Oregon, USA, 2010, ACM.
- [115] AVERY, P. et al., Coevolving influence maps for spatial team tactics in a rts game, in *GECCO* '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 783–790, Portland, Oregon, USA, 2010, ACM.
- [116] CARLSON, B. P. et al., Phenotype feedback genetic algorithm operators for heuristic encoding of snakes within hypercubes, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 791–798, Portland, Oregon, USA, 2010, ACM.
- [117] CROFFORD, J. et al., Applying the triple parameter hypothesis to maintenance scheduling, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 799–806, Portland, Oregon, USA, 2010, ACM.
- [118] COOK, J. E. et al., An exploration into dynamic population sizing, in *GECCO '10: Proceedings* of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 807–814, Portland, Oregon, USA, 2010, ACM.
- [119] TER-SARKISOV, A. et al., The k-bit-swap: a new genetic algorithm operator, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 815–816, Portland, Oregon, USA, 2010, ACM.
- [120] De Prisco, R. et al., Evobasscomposer: a multi-objective genetic algorithm for 4-voice compositions, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 817–818, Portland, Oregon, USA, 2010, ACM.
- [121] NADI, F. et al., Adaptive genetic algorithm using harmony search, in *GECCO '10: Proceedings* of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 819–820, Portland, Oregon, USA, 2010, ACM.
- [122] KUREICHIK, V. M. et al., Hybrid evolutionary algorithm of planning vlsi, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 821–822, Portland, Oregon, USA, 2010, ACM.
- [123] ADDICOAT, M. A. et al., Using a meta-ga for parametric optimization of simple gas in the computational chemistry domain, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 823–824, Portland, Oregon, USA, 2010, ACM.

- [124] ABBAS, H. M., Mixed-coded evolutionary algorithm for gaussian mixture maximum likelihood clustering with model selection, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 825–826, Portland, Oregon, USA, 2010, ACM.
- [125] ESPARCIA-ALCAZáR, A. I. et al., Genetic evolution of fuzzy finite state machines to control bots in a first-person shooter game, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 829–830, Portland, Oregon, USA, 2010, ACM.
- [126] ORTEGON-CANO, P. et al., Why recombination should be adaptive, in *GECCO '10:* Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 831–832, Portland, Oregon, USA, 2010, ACM.
- [127] MEEKHOF, T. et al., Noise pressure: systematic overestimation of population fitness in genetic algorithms with noisy fitness functions, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 833–834, Portland, Oregon, USA, 2010, ACM.
- [128] HERRERA-ORTIZ, J. A. et al., Amount and type of information: a ga-hardness taxonomy, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 835–836, Portland, Oregon, USA, 2010, ACM.
- [129] BHOWAN, U. et al., Auc analysis of the pareto-front using multi-objective gp for classification with unbalanced data, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 845–852, Portland, Oregon, USA, 2010, ACM.
- [130] LICHODZIJEWSKI, P. et al., Symbiosis, complexification and simplicity under gp, in *GECCO* '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 853–860, Portland, Oregon, USA, 2010, ACM.
- [131] TRUJILLO, L. et al., The estimation of hölderian regularity using genetic programming, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 861–868, Portland, Oregon, USA, 2010, ACM.
- [132] UY, N. Q. et al., Semantics based crossover for boolean problems, in *GECCO '10: Proceedings* of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 869–876, Portland, Oregon, USA, 2010, ACM.
- [133] DOWNEY, C. et al., New crossover operators in linear genetic programming for multiclass object classification, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 885–892, Portland, Oregon, USA, 2010, ACM.
- [134] AZAD, R. M. A. et al., Abstract functions and lifetime learning in genetic programming for symbolic regression, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 893–900, Portland, Oregon, USA, 2010, ACM.
- [135] GALVáN-LóPEZ, E. et al., Towards an understanding of locality in genetic programming, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 901–908, Portland, Oregon, USA, 2010, ACM.
- [136] ZAFRA, A. et al., Grammar guided genetic programming for multiple instance learning: an experimental study, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 909–916, Portland, Oregon, USA, 2010, ACM.
- [137] PENNACHIN, C. L. et al., Robust symbolic regression with affine arithmetic, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 917–924, Portland, Oregon, USA, 2010, ACM.

- [138] AUGUSTO, D. A. et al., Coevolutionary multi-population genetic programming for data classification, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 933–940, Portland, Oregon, USA, 2010, ACM.
- [139] VLADISLAVLEVA, K. et al., Knowledge mining with genetic programming methods for variable selection in flavor design, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 941–948, Portland, Oregon, USA, 2010, ACM.
- [140] FOSTER, B. et al., Object-level recombination of commodity applications, in *GECCO '10:* Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 957–964, Portland, Oregon, USA, 2010, ACM.
- [141] FAST, E. et al., Designing better fitness functions for automated program repair, in *GECCO* '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 965–972, Portland, Oregon, USA, 2010, ACM.
- [142] MOMM, H. G. et al., Population restarting: a study case of feature extraction from remotely sensed imagery using textural information, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 973–974, Portland, Oregon, USA, 2010, ACM.
- [143] BARRERO, D. F. et al., Confidence intervals of success rates in evolutionary computation, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 975–976, Portland, Oregon, USA, 2010, ACM.
- [144] AHALPARA, D. P., Improved forecasting of time series data of real system using genetic programming, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 977–978, Portland, Oregon, USA, 2010, ACM.
- [145] WANG, J. et al., A novel genetic programming based morphological image analysis algorithm, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 979–980, Portland, Oregon, USA, 2010, ACM.
- [146] CURRAN, D. et al., Incremental evolution of local search heuristics, in *GECCO '10: Proceedings* of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 981–982, Portland, Oregon, USA, 2010, ACM.
- [147] GAJDA, Z. et al., When does cartesian genetic programming minimize the phenotype size implicitly?, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 983–984, Portland, Oregon, USA, 2010, ACM.
- [148] BORGES, C. E. et al., Model selection in genetic programming, in *GECCO '10: Proceedings* of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 985–986, Portland, Oregon, USA, 2010, ACM.
- [149] MCMULLIN, M. et al., Constant versus variable arity operators in genetic programming, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 987–988, Portland, Oregon, USA, 2010, ACM.
- [150] ALONSO, F. et al., Gggp-based method for modeling time series: operator selection, parameter optimization and expert evaluation, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 989–990, Portland, Oregon, USA, 2010, ACM.
- [151] TOLEDO-SUáREZ, C. D., A first assessment of the use of extended relational alphabets in accuracy classifier systems, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 991–998, Portland, Oregon, USA, 2010, ACM.

- [152] MANNING, E. P., Coevolution in a large search space using resource-limited nash memory, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 999–1006, Portland, Oregon, USA, 2010, ACM.
- [153] JOHANSSON, U. et al., Genetic rule extraction optimizing brier score, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1007–1014, Portland, Oregon, USA, 2010, ACM.
- [154] LODE, C. et al., Adaption of xcs to multi-learner predator/prey scenarios, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1015–1022, Portland, Oregon, USA, 2010, ACM.
- [155] ORRIOLS-PUIG, A. et al., How xcs deals with rarities in domains with continuous attributes, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1023–1030, Portland, Oregon, USA, 2010, ACM.
- [156] SNEL, M. et al., Multi-task evolutionary shaping without pre-specified representations, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1031–1038, Portland, Oregon, USA, 2010, ACM.
- [157] FRANCO, M. A. et al., Speeding up the evaluation of evolutionary learning systems using gpgpus, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1039–1046, Portland, Oregon, USA, 2010, ACM.
- [158] LIśKIEWICZ, M. et al., Negative selection algorithms without generating detectors, in *GECCO* '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 1047–1054, Portland, Oregon, USA, 2010, ACM.
- [159] MACIà, N. et al., In search of targeted-complexity problems, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1055–1062, Portland, Oregon, USA, 2010, ACM.
- [160] SU, C. et al., Learning classifier system using both labeled and unlabeled data, in *GECCO '10:*Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 1065–1066, Portland, Oregon, USA, 2010, ACM.
- [161] BEHDAD, M. et al., On the problems of using learning classifier systems for fraud detection, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1067–1068, Portland, Oregon, USA, 2010, ACM.
- [162] MEIGUINS, A. S. et al., An estimation of distribution algorithm for the automatic generation of clustering algorithms, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 1069–1070, Portland, Oregon, USA, 2010, ACM.
- [163] BURYAN, P. et al., Context-sensitive refinements for stochasticoptimization algorithms in inductive logic programming, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 1071–1072, Portland, Oregon, USA, 2010, ACM.
- [164] RAJAGOPALAN, P. et al., Emergence of competitive and cooperative behavior using coevolution, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1073–1074, Portland, Oregon, USA, 2010, ACM.
- [165] WALTON, M. et al., Parallel fpga-based implementation of scatter search, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1075–1082, Portland, Oregon, USA, 2010, ACM.

- [166] LUQUE, G. et al., Selection pressure and takeover time of distributed evolutionary algorithms, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1083–1088, Portland, Oregon, USA, 2010, ACM.
- [167] VRAJITORU, D., Shared memory genetic algorithms in a multi-agent context, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1097–1104, Portland, Oregon, USA, 2010, ACM.
- [168] LäSSIG, J. et al., The benefit of migration in parallel evolutionary algorithms, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1105–1112, Portland, Oregon, USA, 2010, ACM.
- [169] SHIMADA, K. et al., A method of association rule analysis for incomplete database using genetic network programming, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1115–1122, Portland, Oregon, USA, 2010, ACM.
- [170] SALICHON, M. et al., A neuro-evolutionary approach to micro aerial vehicle control, in *GECCO* '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 1123–1130, Portland, Oregon, USA, 2010, ACM.
- [171] II, J. F. S. et al., Robust neuro-control for a micro quadrotor, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1131–1138, Portland, Oregon, USA, 2010, ACM.
- [172] WILSON, G. et al., Interday foreign exchange trading using linear genetic programming, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1139–1146, Portland, Oregon, USA, 2010, ACM.
- [173] MYBURGH, C. et al., Evolutionary algorithms in large-scale open pit mine scheduling, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1155–1162, Portland, Oregon, USA, 2010, ACM.
- [174] GARRETT, A. et al., Constructing numerically stable real number codes using evolutionary computation, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1163–1170, Portland, Oregon, USA, 2010, ACM.
- [175] JAROS, J. et al., Evolutionary-based conflict-free scheduling of collective communications on spidergon nocs, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1171–1178, Portland, Oregon, USA, 2010, ACM.
- [176] KIM, K. et al., Multiobjective evolutionary algorithms for dynamic social network clustering, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1179–1186, Portland, Oregon, USA, 2010, ACM.
- [177] REEHUIS, E. et al., Mixed-integer evolution strategy using multiobjective selection applied to warehouse design optimization, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1187–1194, Portland, Oregon, USA, 2010, ACM.
- [178] AL-BETAR, M. A. et al., Selection mechanisms in memory consideration for examination timetabling with harmony search, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1203–1210, Portland, Oregon, USA, 2010, ACM.
- [179] LEE, S.-K. et al., A new modular genetic programming for finding attractive technical patterns in stock markets, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1219–1226, Portland, Oregon, USA, 2010, ACM.

- [180] COLMENAR, J. M. et al., Improving reliability of embedded systems through dynamic memory manager optimization using grammatical evolution, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1227–1234, Portland, Oregon, USA, 2010, ACM.
- [181] OVREIU, M. et al., Biogeography-based optimization of neuro-fuzzy system parameters for diagnosis of cardiac disease, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1235–1242, Portland, Oregon, USA, 2010, ACM.
- [182] STRACQUADANIO, G. et al., Multi-objective optimization of doping profile in semiconductor design, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1243–1250, Portland, Oregon, USA, 2010, ACM.
- [183] PEDERSEN, G. K. et al., Evolving robust controller parameters using covariance matrix adaptation, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1251–1258, Portland, Oregon, USA, 2010, ACM.
- [184] PADHYE, N. et al., Evolutionary multi-objective optimization and decision making for selective laser sintering, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1259–1266, Portland, Oregon, USA, 2010, ACM.
- [185] CERIANI, M. et al., Multiprocessor systems-on-chip synthesis using multi-objective evolutionary computation, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1267–1274, Portland, Oregon, USA, 2010, ACM.
- [186] TANJI, M. et al., Conbreo: a music performance rendering system using hybrid approach of iec and automated evolution, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1275–1282, Portland, Oregon, USA, 2010, ACM.
- [187] VEERAMACHANENI, K. et al., Evolutionary optimization of flavors, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1291–1298, Portland, Oregon, USA, 2010, ACM.
- [188] MAYFIELD, E. et al., Using feature construction to avoid large feature spaces in text classification, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1299–1306, Portland, Oregon, USA, 2010, ACM.
- [189] SIERRA, A. et al., Shorter, more reliable and valid tests by means of a genetic algorithm, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1307–1308, Portland, Oregon, USA, 2010, ACM.
- [190] CHOI, Y.-S. et al., Optimization of an image set by genetic feature selection for real-time photomosaics, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1309–1310, Portland, Oregon, USA, 2010, ACM.
- [191] SUGAWARA, T. et al., Adaptive probabilistic task allocation in large-scale multi-agent systems and its evaluation, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1311–1312, Portland, Oregon, USA, 2010, ACM.
- [192] de A. Araújo, R. et al., A covariance matrix adaptation based evolutionary methodology for phase adjustment in financial time series forecasting, in GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 1315–1316, Portland, Oregon, USA, 2010, ACM.

- [193] MOSNIER, D. et al., Integrated pre-design step methodology based onmulti-objective evolutionary optimization, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1317–1318, Portland, Oregon, USA, 2010, ACM.
- [194] YOU, Y.-S. et al., Psychological preference-based optimization framework on the nurse scheduling problem, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1319–1320, Portland, Oregon, USA, 2010, ACM.
- [195] SATO, M. et al., Proposal of a multi-core processor architecture for effective evolutionary computation, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1321–1322, Portland, Oregon, USA, 2010, ACM.
- [196] TUTUM, C. C. et al., Multi-objective optimization of process parameters in friction stir welding, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1323–1324, Portland, Oregon, USA, 2010, ACM.
- [197] ROYCHOUDHURY, S. et al., Mitigation strategies in epidemics: evolutionary optimization using a hierarchy of objective functions, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1325–1326, Portland, Oregon, USA, 2010, ACM.
- [198] EVINS, R. et al., Configuration of a genetic algorithm for multi-objective optimisation of solar gain to buildings, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1327–1328, Portland, Oregon, USA, 2010, ACM.
- [199] Di Carlo, S. et al., Towards drift correction in chemical sensors using an evolutionary strategy, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1329–1330, Portland, Oregon, USA, 2010, ACM.
- [200] AFRIDI, M. J. et al., Performance evaluation of evolutionary algorithms for road detection, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1331–1332, Portland, Oregon, USA, 2010, ACM.
- [201] JENSEN, A. C. et al., On the use of genetic programming for automated refactoring and the introduction of design patterns, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1341–1348, Portland, Oregon, USA, 2010, ACM.
- [202] WINDISCH, A., Search-based test data generation from stateflow statecharts, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1349–1356, Portland, Oregon, USA, 2010, ACM.
- [203] ZHANG, Y. et al., Today/future importance analysis, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1357–1364, Portland, Oregon, USA, 2010, ACM.
- [204] XU, Z. et al., Factors affecting the use of genetic algorithms in test suite augmentation, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1365–1372, Portland, Oregon, USA, 2010, ACM.
- [205] CONRAD, A. P. et al., Empirically studying the role of selection operators duringsearch-based test suite prioritization, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1373–1380, Portland, Oregon, USA, 2010, ACM.

- [206] HALL, M. et al., Superstate identification for state machines using search-based clustering, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1381–1388, Portland, Oregon, USA, 2010, ACM.
- [207] KREMMEL, T. et al., Multiobjective evolutionary algorithm for software project portfolio optimization, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1389–1390, Portland, Oregon, USA, 2010, ACM.
- [208] WILKERSON, J. L. et al., Coevolutionary automated software correction, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1391–1392, Portland, Oregon, USA, 2010, ACM.
- [209] KöTZING, T. et al., Ant colony optimization and the minimum cut problem, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1393–1400, Portland, Oregon, USA, 2010, ACM.
- [210] AKIMOTO, Y. et al., Theoretical analysis of evolutionary computation on continuously differentiable functions, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1401–1408, Portland, Oregon, USA, 2010, ACM.
- [211] WHITLEY, L. D. et al., Elementary landscapes of frequency assignment problems, in *GECCO* '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 1409–1416, Portland, Oregon, USA, 2010, ACM.
- [212] SANYAL, S. et al., Necessary and sufficient conditions for success of the metropolis algorithm for optimization, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1417–1424, Portland, Oregon, USA, 2010, ACM.
- [213] CHICANO, F. et al., Elementary landscape decomposition of the quadratic assignment problem, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1425–1432, Portland, Oregon, USA, 2010, ACM.
- [214] JOHANNSEN, D. et al., Can quantum search accelerate evolutionary algorithms?, in *GECCO* '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 1433–1440, Portland, Oregon, USA, 2010, ACM.
- [215] LEHRE, P. K. et al., Black-box search by unbiased variation, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1441–1448, Portland, Oregon, USA, 2010, ACM.
- [216] HOROBA, C. et al., Ant colony optimization for stochastic shortest path problems, in *GECCO* '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 1465–1472, Portland, Oregon, USA, 2010, ACM.
- [217] MANZONI, L. et al., Definition of a crossover based distance for genetic algorithms, in *GECCO* '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 1473–1474, Portland, Oregon, USA, 2010, ACM.
- [218] VALSECCHI, A. et al., Optimization speed and fair sets of functions, in *GECCO '10: Proceedings* of the 12th annual conference on Genetic and evolutionary computation, edited by BRANKE, J. et al., pages 1475–1476, Portland, Oregon, USA, 2010, ACM.
- [219] de Mattos Neto, P. S. et al., Time series forecasting using a perturbative intelligent system, in *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, edited by BRANKE, J. et al., pages 1477–1478, Portland, Oregon, USA, 2010, ACM.