

## Список литературы

- [20 2011] Paper not in the database, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Abegaz et al. 2011] T. Abegaz, G. Dozier, K. Bryant, J. Adams, J. Shelton, R. Karl, and D. Woodard, Ssga and eda based feature selection and weighting for face recognition, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1374–1380, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Abello et al. 2011] M. Abello, L. T. Bui, and Z. Michalewicz, An adaptive approach for solving dynamic scheduling with time-varying number of tasks - part i, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1702–1709, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Abramson et al. 2011] M. Abramson, I. Will, and R. Mittu, Hybrid tuning of an evolutionary algorithm for sensor allocation, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1671–1677, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Adam and Zbigniew 2011] G. Adam and M. Zbigniew, Using cellular evolution for diversification of the balance between accurate and interpretable fuzzy knowledge bases for classification, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1480–1487, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Adra et al. 2011] S. Adra, M. Kiran, P. McMinn, and N. Walkinshaw, A multiobjective optimisation approach for the dynamic inference and refinement of agent-based model specifications, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2230–2237, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ahmadi-Javid 2011] A. Ahmadi-Javid, Anarchic society optimization: A human-inspired method, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2566–2572, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ahn et al. 2011a] E. Y. Ahn, T. Mullen, and J. Yen, Evolutionary based feature extraction with dynamic mutation, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 409–416, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ahn et al. 2011b] E. Y. Ahn, T. Mullen, and J. Yen, A two-population evolutionary algorithm for feature extraction: Combining

- filter and wrapper, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 723–730, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Akay and Karaboga 2011] B. Akay and D. Karaboga, Wavelet packets optimization using artificial bee colony algorithm, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 89–94, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Al-Khateeb and Kendall 2011] B. Al-Khateeb and G. Kendall, The importance of look-ahead depth in evolutionary checkers, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2245–2251, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Aldridge et al. 2011] S. Aldridge, B. Babb, F. Moore, and M. Peterson, Improved reconstruction of deep space images via genetic algorithms, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 102–109, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Aleshunas and Janikow 2011] J. Aleshunas and C. Janikow, Cost-benefit analysis of using heuristics in acgp, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1177–1183, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Alford et al. 2011a] A. Alford, C. Hansen, G. Dozier, K. Bryant, J. Kelly, T. Abegaz, K. Ricanek, and D. Woodard, Gec-based multi-biometric fusion, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2056–2059, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Alford et al. 2011b] A. Alford, K. Popplewell, G. Dozier, K. Bryant, J. Kelly, J. Adams, T. Abegaz, J. Shelton, K. Ricanek, and D. Woodard, A comparison of gec-based feature selection and weighting for multimodal biometric recognition, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2712–2715, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ali et al. 2011] M. Ali, A. Salhie, R. A. Snaineh, and R. Reynolds, Boosting cultural algorithms with an incongruous layered social fabric influence function, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1230–1237, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Alimadad et al. 2011] A. Alimadad, V. Dabbaghian, S. Singh, and H. H. Tsang, Modeling hiv spread through sexual contact using a cellular automaton, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2338–2343, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.

- [Allen and Fritzsche 2011] M. Allen and P. Fritzsche, Reinforcement learning with adaptive kanerva coding for xpilot game ai, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1520–1527, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Alshammari and Zincir-Heywood 2011] R. Alshammari and A. N. Zincir-Heywood, Is machine learning losing the battle to produce transportable signatures against voip traffic?, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1542–1549, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Amaral and Hruschka 2011] L. Amaral and E. Hruschka, Transgenic, an operator for evolutionary algorithms, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1307–1313, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Amiri et al. 2011] B. Amiri, L. Hossain, and J. W. Crawford, An efficient multiobjective evolutionary algorithm for community detection in social networks, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2186–2192, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Andres et al. 2011] C. Andres, L. Llana, and M. Nunez, Self-adaptive fuzzy-timed systems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 115–122, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ankush et al. 2011] M. Ankush, A. K. Das, P. Mukherjee, S. Das, and P. N. Suganthan, Modified differential evolution with local search algorithm for real world optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1564–1571, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Antonakopoulos and Tufte 2011] K. Antonakopoulos and G. Tufte, A common genetic representation capable of developing distinct computational architectures, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1263–1270, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Asafuddoula et al. 2011] M. Asafuddoula, T. Ray, and R. Sarker, An adaptive differential evolution algorithm and its performance on real world optimization problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1056–1061, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Asconavieta et al. 2011] P. Asconavieta, M. Goldberg, and E. Goldberg, Evolutionary algorithm for the car renter salesman, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 586–593, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.

- [Ashlock and Brown 2011] D. Ashlock and J. Brown, Fitness functions for searching the mandelbrot set, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1107–1114, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ashlock and McGuinness 2011] D. Ashlock and C. McGuinness, Decomposing the level generation problem with tiles, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 848–855, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ashlock and Nguyen 2011] D. Ashlock and S. Nguyen, Financial control of the evolution of autonomous npcs, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 827–834, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ashlock et al. 2011a] D. Ashlock, C. Kuusela, and M. Cojocaru, Shopkeeper strategies in the iterated prisoner’s dilemma, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1062–1069, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ashlock et al. 2011b] D. Ashlock, J. Schonfeld, and P. McNicholas, Translation tables: A genetic code in an evolutionary algorithm, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2672–2679, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ashlock et al. 2011c] D. Ashlock, E. Shiller, and C. Lee, Comparison of evolved epidemic networks with diffusion characters, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 780–787, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Atkins et al. 2011] D. Atkins, K. Neshatian, and M. Zhang, A domain independent genetic programming approach to automatic feature extraction for image classification, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 238–245, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Avery et al. 2011] P. Avery, J. Togelius, A. Elvis, and R. P. van Leeuwen, Computational intelligence and tower defence games, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1083–1090, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Awad and De Jong 2011] M. Awad and K. De Jong, Optimization of spectral signature selection using multi-objective genetic algorithms, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1619–1626, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.

- [Ayob et al. 2011] A. F. M. Ayob, T. Ray, and W. Smith, Scenario-based hydrodynamic design optimization of high speed planing craft for coastal surveillance, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 354–361, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Azevedo and Araujo 2011a] C. Azevedo and A. Araujo, Correlation between diversity and hypervolume in evolutionary multiobjective optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2730–2737, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Azevedo and Araujo 2011b] C. Azevedo and A. Araujo, Generalized immigration schemes for dynamic evolutionary multiobjective optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2032–2039, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Azuma et al. 2011] R. M. Azuma, G. Coelho, and F. J. Von Zuben, Evolutionary multi-objective optimization for the vendor-managed inventory routing problem, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1456–1463, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Bandaru et al. 2011a] S. Bandaru, R. Tulshyan, and K. Deb, Modified sbx and adaptive mutation for real world single objective optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1334–1341, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Bandaru et al. 2011b] S. Bandaru, C. C. Tutum, K. Deb, and J. H. Hattel, Higher-level innovization: A case study from friction stir welding process optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2769–2776, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Banerjee and Abu-Mahfouz 2011] A. Banerjee and I. Abu-Mahfouz, Evolutionary algorithm-based parameter identification for nonlinear dynamical systems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1–5, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Barrero et al. 2011] D. F. Barrero, M. R-Moreno, B. Castano, and D. Camacho, An empirical study on the accuracy of computational effort in genetic programming, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1169–1176, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Batista et al. 2011] L. Batista, F. Campelo, F. Guimaraes, and J. Ramirez, A comparison of dominance criteria in many-objective optimization problems, in *Proceedings of the 2011 IEEE*

- Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2352–2359, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Becker 2011] M. Becker, Design of fault tolerant networks with agent-based simulation of physarum polycephalum, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 285–291, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Benkhelifa et al. 2011] E. Benkhelifa, A. Tiwari, A. G. De Rueda, and M. Moniri, Evolutionary multi-objective design optimisation of energy harvesting mems: The case of a piezoelectric, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1855–1862, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Braun et al. 2011] J. Braun, J. Krettek, F. Hoffmann, and T. Bertram, Structure and parameter identification of nonlinear systems with an evolution strategy, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2437–2444, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Bremner et al. 2011] P. Bremner, M. Samie, A. Pipe, and A. Tyrrell, Multi-objective optimisation of cell-array circuit evolution, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 440–446, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Brown et al. 2011] J. A. Brown, D. Ashlock, S. Houghten, and J. Orth, Autogeneration of fractal photographic mosaic images, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1115–1122, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Bui et al. 2011] L. T. Bui, H. Abbass, S. Baker, M. Barlow, and A. Bender, A grid-based heuristic for two-dimensional packing problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2322–2329, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Cardamone et al. 2011] L. Cardamone, A. Mocci, and C. Ghezzi, Dynamic synthesis of program invariants using genetic programming, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 617–624, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Carina et al. 2011] V. Carina, N. Geoff, and W. van Heerden, Evolution of a fictional dialogue, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1099–1106, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.

- [Carpentieri 2011] M. Carpentieri, On robustness of permutations sequencing operators: Solving satisfiability of random 3-cnfs by simple crossover, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 693–700, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Carvalho et al. 2011] R. Carvalho, G. Brunoro, and G. L. Pappa, Hcga: A genetic algorithm for hierarchical classification, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 932–939, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Castro and Von Zuben 2011] P. Castro and F. J. Von Zuben, Training multilayer perceptrons with a gaussian artificial immune system, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1255–1262, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Celebi and Kilic 2011] R. Celebi and H. Kilic, Mobile prisoner’s dilemma game played on diverse habitats, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2593–2597, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Chakraborty et al. 2011] U. Chakraborty, S. Das, and T. Abbott, Clustering in mobile ad hoc networks with differential evolution, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2216–2221, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Chen and Chen 2011] S.-H. Chen and M.-C. Chen, Bi-variate artificial chromosomes with genetic algorithm for single machine scheduling problems with sequence-dependent setup times, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 45–53, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Chen and Luo 2011] Z. Chen and P. Luo, Qisa: Incorporating quantum computation into simulated annealing for optimization problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2580–2587, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Chen et al. 2011] P.-L. Chen, M.-C. Yang, and T.-Y. Sun, Pso-based on-line tuning pid controller for setpoint changes and load disturbance, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1886–1893, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Chiang and Lai 2011] T.-C. Chiang and Y.-P. Lai, Moea/d-ams: Improving moea/d by an adaptive mating selection mechanism, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1472–1479,

- New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Chiang et al. 2011] W.-C. Chiang, G. Cai, X. Xu, G. Mudunuri, and W. Zhu, Two-stage tabu - particle swarm algorithms for the facility layout problem with size constraints, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1678–1685, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Chica et al. 2011] M. Chica, O. Cordon, and S. Damas, Tackling the 1/3 variant of the time and space assembly line balancing problem by means of a multiobjective genetic algorithm, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1366–1373, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Chira and Gog 2011] C. Chira and A. Gog, Fitness evaluation for overlapping community detection in complex networks, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2193–2199, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Chira 2011] C. Chira, A hybrid evolutionary approach to protein structure prediction with lattice models, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2293–2299, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Chowdhury and Chetty 2011] A. R. Chowdhury and M. Chetty, An improved method to infer gene regulatory network using s-system, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1011–1018, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Chu et al. 2011] W. Chu, X. Gao, and S. Sorooshian, Fortify particle swam optimizer (pso) with principal components analysis—an example in improving bound-handling for optimizing high-dimensional and complex problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1643–1647, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Chuan et al. 2011] S. Chuan, Y. Zhenyu, P. Xin, C. Yanan, and W. Bin, Multi-objective decisionmaking in the detection of comprehensive community structures, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1488–1494, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Chuang and Chen 2011] Y.-C. Chuang and C.-T. Chen, A study on real-coded genetic algorithm for process optimization using ranking selection, direction-based crossover and dynamic mutation, in *Proceedings of the 2011 IEEE Congress on Evolutionary*



- Computation*, edited by A. E. Smith, pp. 2468–2475, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Clancey and Witten 2011] O. Clancey and M. Witten, A memetic algorithm for dosimetric optimization in cyberknife robotic radiosurgical treatment planning, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 879–884, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Cobos et al. 2011] C. Cobos, M. Mendoza, and E. Leon, A hyper-heuristic approach to design and tuning heuristic methods for web document clustering, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1349–1357, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Coelho et al. 2011a] G. Coelho, F. de Franca, and F. J. Von Zuben, A concentration-based artificial immune network for combinatorial optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1247–1254, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Coelho et al. 2011b] L. Coelho, D. Bernert, and V. Mariani, A chaotic firefly algorithm applied to reliability-redundancy optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 517–521, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Coia and Ross 2011] C. Coia and B. Ross, Automatic evolution of conceptual building architectures, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1145–1152, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Corns 2011] S. Corns, On the effects of graph based evolutionary algorithms for training finite state classifiers, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1019–1025, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Costa et al. 2011] B. C. Costa, P. E. M. Almeida, and E. Caldeira, Traffic lights timing inside microregion simulator using multiobjective optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1381–1386, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Coulter and Ehlers 2011] D. Coulter and E. Ehlers, Biologically inspired obsolescence management in mobile agent systems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2048–2055, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Cruz et al. 2011] A. Cruz, R. Cardoso, E. Wanner, and R. Takahashi, Using convex quadratic approximation as a local search operator in

- evolutionary multiobjective algorithms, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1222–1229, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Cuccu et al. 2011] G. Cuccu, F. Gomez, and T. Glasmachers, Novelty-based restarts for evolution strategies, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 158–163, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Daneshyari and Yen 2011] M. Daneshyari and G. Yen, Dynamic optimization using cultural based pso, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 509–516, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Davarynejad et al. 2011] M. Davarynejad, J. Rezaei, J. Vrancken, J. van den Berg, and C. A. Coello Coello, Accelerating convergence towards the optimal pareto front, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2100–2107, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [de Armas et al. 2011] J. de Armas, G. Miranda, and C. Leon, Two encoding schemes for a multi-objective cutting stock problem, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 529–536, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [de Bruyn et al. 2011] K. de Bruyn, G. Nitschke, and W. van Heerden, Evolutionary algorithms and particle swarm optimization for artificial language evolution, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2688–2695, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [de Franca and Von Zuben 2011] F. de Franca and F. J. Von Zuben, Extracting additive and multiplicative coherent biclusters with swarm intelligence, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 625–631, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [De la Fraga and Dominguez 2011] L. G. De la Fraga and G. M. L. Dominguez, Robust detection of several circles or ellipses with heuristics, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 484–490, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Dias et al. 2011] D. Dias, A. Singulani, M. A. Pacheco, P. Souza, M. Pires, and O. V. Neto, Self-assembly quantum dots growth prediction by quantum-inspired linear genetic programming, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2060–2067, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.

- [Diaz-Manriquez et al. 2011] A. Diaz-Manriquez, G. Toscano-Pulido, and W. Gomez-Flores, On the selection of surrogate models in evolutionary optimization algorithms, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2148–2155, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Dobslaw 2011] F. Dobslaw, Iteration-wise parameter learning, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 455–462, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Dohare and Devi 2011] D. Dohare and V. S. Devi, Combination of similarity measures for time series classification using genetic algorithms, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 401–408, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Dorn et al. 2011] M. Dorn, L. S. Buriol, and L. C. Lamb, A hybrid genetic algorithm for the 3-d protein structure prediction problem using a path-relinking strategy, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2696–2703, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Dos Santos and Sabourin 2011] E. M. Dos Santos and R. Sabourin, Classifier ensembles optimization guided by population oracle, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 679–684, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Doucette and Heywood 2011] J. Doucette and M. Heywood, Revisiting the acrobot ‘height’ task: An example of efficient evolutionary policy search under an episodic goal seeking task, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 468–475, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Downey and Zhang 2011] C. Downey and M. Zhang, Execution trace caching for linear genetic programming, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1191–1198, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Dumas et al. 2011] L. Dumas, M. E. Rhabi, and G. Rochefort, An evolutionary approach for blind deconvolution of barcode images with nonuniform illumination, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2416–2421, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Dymond et al. 2011] A. Dymond, A. P. Engelbrecht, and S. Heyns, The sensitivity of single objective optimization algorithm control parameter values under different computational constraints, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1411–1418,

- New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Dziuk and Miikkulainen 2011] A. Dziuk and R. Miikkulainen, Creating intelligent agents through shaping of coevolution, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1076–1082, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Echegoyen et al. 2011] C. Echegoyen, Q. Zhang, A. Mendiburu, R. Santana, and J. A. Lozano, On the limits of effectiveness in estimation of distribution algorithms, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1572–1579, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ellefsen 2011] K. O. Ellefsen, Dynamic robot scheduling using a genetic algorithm, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2024–2031, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Elsayed et al. 2011a] S. Elsayed, R. Sarker, and D. Essam, Differential evolution with multiple strategies for solving cec2011 real-world numerical optimization problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1040–1047, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Elsayed et al. 2011b] S. Elsayed, R. Sarker, and D. Essam, Ga with a new multi-parent crossover for constrained optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 856–863, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Elsayed et al. 2011c] S. Elsayed, R. Sarker, and D. Essam, Ga with a new multi-parent crossover for solving ieeec-2011 competition problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1033–1039, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Elsayed et al. 2011d] S. Elsayed, R. Sarker, and D. Essam, Integrated strategies differential evolution algorithm with a local search for constrained optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2611–2618, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Emmerich et al. 2011] M. Emmerich, A. Deutz, and J. W. Klinkenberg, Hypervolume-based expected improvement: Monotonicity properties and exact computation, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2140–2147, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Eppe et al. 2011] S. Eppe, M. Lopez-Ibanez, T. Stuetzle, and Y. De Smet, An experimental study of preference model integration into multi-objective optimization heuristics, in *Proceedings of the*

- 2011 *IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2738–2745, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ergezer and Simon 2011] M. Ergezer and D. Simon, Oppositional biogeography-based optimization for combinatorial problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1495–1502, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Eskridge 2011] B. Eskridge, Extrapolation of regularity using indirect encodings, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1279–1286, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Esmailzadeh and Rahnamayan 2011] A. Esmailzadeh and S. Rahnamayan, Enhanced differential evolution using center-based sampling, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2634–2641, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Espitia and Sofrony 2011] H. Espitia and J. Sofrony, Path planning of mobile robots using potential fields and swarms of brownian particles, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 123–129, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Estevez et al. 2011] J. Estevez, P. Toledo, and S. Alayon, Using an induced relational decision tree for rule injection in a learning classifier system, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 640–647, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Falcon et al. 2011] R. Falcon, M. Almeida, and A. Nayak, Fault identification with binary adaptive fireflies in parallel and distributed systems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1358–1365, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [fang Ji et al. 2011] X. fang Ji, D. wei Gong, and X. ping Ma, Solving optimization problems with intervals and hybrid indices using evolutionary algorithms, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2522–2529, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Fernandes et al. 2011] C. M. Fernandes, C. Isidoro, F. Barata, A. C. Rosa, and J. J. Merelo, From pherographia to color pherographia - color sketching with artificial ants, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1123–1130, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Fernandez-Ares et al. 2011] A. Fernandez-Ares, A. M. Mora, J. J. Merelo, P. Garcia-Sanchez, and C. Fernandes, Optimizing player behavior

- in a real-time strategy game using evolutionary algorithms, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2016–2023, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Fernandez de Vega et al. 2011] F. Fernandez de Vega, F. Chavez de la O, R. A. Fernandez, and F. H. Triguero, Musical genre classification by means of fuzzy rules based systems: A preliminary approach, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2551–2557, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Friedlander et al. 2011] A. Friedlander, K. Neshatian, and M. Zhang, Meta-learning and feature ranking using genetic programming for classification: Variable terminal weighting, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 940–947, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Fu et al. 2011] W. Fu, M. Johnston, and M. Zhang, Genetic programming for edge detection: A global approach, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 254–261, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Fukushima et al. 2011] N. Fukushima, Y. Nagata, S. Kobayashi, and I. Ono, Proposal of distance-weighted exponential natural evolution strategies, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 164–171, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Gallagher and Oppenheimer 2011] J. Gallagher and M. Oppenheimer, An improved evolvable oscillator for all flight mode control of an insect-scale flapping-wing micro air vehicle, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 417–425, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Garcia-Arenas et al. 2011] M. Garcia-Arenas, J. J. Merelo, A. M. Mora, P. Castillo, and G. Romero, Assessing speed-ups in commodity cloud storage services for distributed evolutionary algorithms, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 304–311, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Garro et al. 2011] B. A. Garro, H. Sossa, and R. A. Vazquez, Artificial neural network synthesis by means of artificial bee colony (abc) algorithm, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 331–338, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Garza-Fabre et al. 2011a] M. Garza-Fabre, E. Rodriguez-Tello, and G. Toscano-Pulido, Comparing alternative energy functions for the hp

- model of protein structure prediction, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2300–2307, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Garza-Fabre et al. 2011b] M. Garza-Fabre, G. Toscano-Pulido, C. A. Coello Coello, and E. Rodriguez-Tello, Effective ranking + speciation = many-objective optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2108–2115, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Geng and Liu 2011] J. Geng and J. Liu, Image texture classification using a multiagent genetic clustering algorithm, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 504–508, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ghaffarizadeh et al. 2011] A. Ghaffarizadeh, K. Ahmadi, and N. S. Flann, Sorting unsigned permutations by reversals using multi-objective evolutionary algorithms with variable size individuals, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 292–295, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ghosh et al. 2011] S. Ghosh, S. Roy, D. Swagatam, A. Ajith, and I. Minhazul, Peak-to-average power ratio reduction in ofdm systems using an adaptive differential evolution algorithm, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1940–1948, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Goh et al. 2011] C. K. Goh, D. Lim, L. Ma, Y. S. Ong, and P. Dutta, A surrogate-assisted memetic co-evolutionary algorithm for expensive constrained optimization problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 731–736, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Goncalves and Von Zuben 2011] A. R. Goncalves and F. J. Von Zuben, Online learning in estimation of distribution algorithms for dynamic environments, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 62–69, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Gong and Fukunaga 2011] Y. Gong and A. Fukunaga, Distributed island-model genetic algorithms using heterogeneous parameter settings, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 819–826, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Gonzalez-Pardo and Camacho 2011] A. Gonzalez-Pardo and D. Camacho, Analysis of grammatical evolution approaches to regular expression

- induction, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 632–639, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Goulart et al. 2011] N. Goulart, L. Dias, S. Souza, and T. Noronha, Biased random-key genetic algorithm for fiber installation in optical network optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2260–2264, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Graham et al. 2011] L. Graham, J. Borbone, and G. Parker, Comparison of a greedy selection operator to tournament selection and a hill climber, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1503–1507, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Green, II et al. 2011] R. Green, II, L. Wang, M. Alam, and R. Formato, Central force optimization on a gpu: A case study in high performance metaheuristics using multiple topologies, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 550–557, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Greenwood and Chopra 2011] G. Greenwood and S. Chopra, A numerical analysis of the evolutionary iterated snowdrift game, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2009–2015, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Greenwood 2011] G. Greenwood, On the value of operator-induced neighborhoods in fitness landscapes, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 463–467, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Grobler et al. 2011] J. Grobler, A. P. Engelbrecht, G. Kendall, and V. Yadavalli, Investigating the impact of alternative evolutionary selection strategies on multi-method global optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2330–2337, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Haidar et al. 2011] A. Haidar, K. Noman, R. Al-Jawfi, and H. A. Aziz, An intelligent placement of distributed capacitance based on loss minimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 767–771, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society.
- [Halder et al. 2011] U. Halder, S. Das, D. Maity, A. Abraham, and D. Preetam, Self adaptive cluster based and weed inspired differential evolution algorithm for real world optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 737–743, New



- Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Hamada et al. 2011a] N. Hamada, Y. Nagata, S. Kobayashi, and I. Ono, Adaptive weighted aggregation 2: More scalable awa for multiobjective function optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2368–2375, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Hamada et al. 2011b] N. Hamada, Y. Nagata, S. Kobayashi, and I. Ono, On scalability of adaptive weighted aggregation for multiobjective function optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 655–664, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Hamza et al. 2011] N. Hamza, S. Elsayed, R. Sarker, and D. Essam, Differential evolution combined with constraint consensus for constrained optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 864–871, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Hancock and Lamont 2011] D. Hancock and G. Lamont, Multi agent system for network attack classification using flow-based intrusion detection, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1534–1541, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Handa 2011] H. Handa, Dimensionality reduction of scene and enemy information in mario, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1514–1519, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Handoko et al. 2011] S. D. Handoko, C. K. Kwoh, Y. S. Ong, and J. Chan, Classification-assisted memetic algorithms for solving optimization problems with restricted equality constraint function mapping, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1214–1221, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Hassanein et al. 2011] O. Hassanein, S. Anavatti, and T. Ray, Genetic fuzzy controller for robot manipulator position control based upon inverse dynamics, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 707–714, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [He and Yen 2011] Z. He and G. Yen, An ensemble method for performance metrics in multiobjective evolutionary algorithms, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1723–1728, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.

- [Heinrich et al. 2011] E. Heinrich, R. Joost, and R. Salomon, Learning from the barn owl auditory system: A bio-inspired localization hardware architecture, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 216–221, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Helbig and Engelbrecht 2011] M. Helbig and A. P. Engelbrecht, Archive management for dynamic multi-objective optimisation problems using vector evaluated particle swarm optimisation, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2040–2047, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Herbawi and Weber 2011] W. Herbawi and M. Weber, Comparison of multiobjective evolutionary algorithms for solving the multiobjective route planning in dynamic multi-hop ridesharing, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2092–2099, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Hernandez and Toscano-Pulido 2011] J. Hernandez and G. Toscano-Pulido, A comparison on the search of particle swarm optimization and differential evolution on multi-objective optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1977–1984, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Hijaze and Corne 2011] M. Hijaze and D. Corne, Distributed evolutionary algorithm topologies with adaptive migration schemes, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 601–608, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Hill and O’Riordan 2011] S. Hill and C. O’Riordan, Examining the use of a non-trivial fixed genotype-phenotype mapping in genetic algorithms to induce phenotypic variability over deceptive uncertain landscapes, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1403–1410, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Hingston and Preuss 2011] P. Hingston and M. Preuss, Red teaming with coevolution, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1160–1168, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Hiruma et al. 2011] H. Hiruma, A. Fukunaga, K. Komiya, and H. Iba, Evolving an effective robot tour guide, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 137–144, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Hsieh et al. 2011a] M.-N. Hsieh, T.-C. Chiang, and L.-C. Fu, A hybrid constraint handling mechanism with differential evolution

- for constrained multiobjective optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1784–1791, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Hsieh et al. 2011b] S.-T. Hsieh, S.-Y. Chiu, and S.-J. Yen, Sharing mutation genetic algorithm for solving multi-objective optimization problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1832–1838, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Huang and Ting 2011] Y.-H. Huang and C.-K. Ting, Genetic algorithm with path relinking for the multi-vehicle selective pickup and delivery problem, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1817–1824, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [hui Zhong and Zhang 2011] J. hui Zhong and J. Zhang, Energy-efficient local wake-up scheduling in wireless sensor networks, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2273–2277, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Huo et al. 2011] C.-L. Huo, T.-Y. Lai, and T.-Y. Sun, The preliminary study on multi-swarm sharing particle swarm optimization: Applied to uav path planning problem, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1769–1775, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Hwang et al. 2011] J.-W. Hwang, Y.-S. Lee, and S.-B. Cho, Structure evolution of dynamic bayesian network for traffic accident detection, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1664–1670, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ibrahimov et al. 2011] M. Ibrahimov, A. Mohais, S. Schellenberg, and Z. Michalewicz, Comparison of different evolutionary algorithms for global supply chain optimisation and parameter analysis, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2400–2407, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ioannides et al. 2011] C. Ioannides, K. Eder, and G. Barrett, Improving xcs performance on overlapping binary problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1419–1426, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ishibuchi et al. 2011] H. Ishibuchi, N. Akedo, H. Ohyanagi, and Y. Nojima, Behavior of emo algorithms on many-objective optimization problems with correlated objectives, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited

- by A. E. Smith, pp. 1464–1471, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Islam et al. 2011a] M. Islam, S. Ghosh, S. Das, A. Abraham, and S. Roy, A modified discrete differential evolution based tdma scheduling scheme for many to one communications in wireless sensor networks, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1949–1956, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Islam et al. 2011b] M. K. Islam, M. Chetty, and M. Murshed, Novel local improvement techniques in clustered memetic algorithm for protein structure prediction, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1002–1010, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Jennings and Ordonez 2011] A. Jennings and R. Ordonez, Population based optimization for variable operating points, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 145–151, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Jeong et al. 2011] I.-B. Jeong, C.-S. Park, K.-I. Na, S. Han, and J.-H. Kim, Particle swarm optimization-based central patten generator for robotic fish locomotion, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 152–157, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Johansson et al. 2011] U. Johansson, C. Sonstrod, and T. Lofstrom, One tree to explain them all, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1443–1450, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Junior and Pappa 2011] Z. C. Junior and G. L. Pappa, A pso algorithm for improving multi-view classification, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 924–931, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Junqing et al. 2011] L. Junqing, P. Quanke, and X. Shengxian, Flexible job shop scheduling problems by a hybrid artificial bee colony algorithm, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 78–83, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Kamath et al. 2011] U. Kamath, K. De Jong, and A. Shehu, An evolutionary-based approach for feature generation: Eukaryotic promoter recognition, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 277–284, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Kameya and Prayoonsri 2011] Y. Kameya and C. Prayoonsri, Pattern-based preservation of building blocks in genetic algorithms, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited

- by A. E. Smith, pp. 2558–2565, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Kessentini et al. 2011] S. Kessentini, D. Barchiesi, T. Grosge, and M. L. de la Chapelle, Particle swarm optimization and evolutionary methods for plasmonic biomedical applications, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2308–2313, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Khairy et al. 2011] M. Khairy, M. B. Fayek, and E. E. Hemayed, Pso2: Particle swarm optimization with pso-based local search, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1825–1831, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Khan et al. 2011] M. Khan, A. Ayob, A. Isaacs, and T. Ray, A novel evolutionary approach for 2d shape matching based on b-spline modeling, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 648–654, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ki-Baek and Jong-Hwan 2011] L. Ki-Baek and K. Jong-Hwan, Multi-objective particle swarm optimization with preference-based sorting, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2486–2493, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Kia and Cristinel 2011] H. S. Kia and A. Cristinel, A new fault-tolerant and congestion-aware adaptive routing algorithm for regular networks-on-chip, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2453–2460, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Kijowski et al. 2011] M. Kijowski, J. Gallagher, and L. Merkle, Improved learning in an evolvable hardware hover controller for an insect scale flapping-wing micro air vehicle, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 426–431, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Kim et al. 2011] E.-S. Kim, J.-W. Ha, W. H. Jung, J. H. Jang, J. S. Kwon, and Z. Byoung-Tak, Mutual information-based evolution of hypernetworks for brain data analysis, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2604–2610, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Kimura and Matsumura 2011] S. Kimura and K. Matsumura, Constrained multimodal function optimization using a simple evolutionary algorithm, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 447–454, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.

- [Knittel and Bossomaier 2011] A. Knittel and T. Bossomaier, Formation and activation of feature hierarchies under reinforcement, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2664–2671, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Korosec and Silc 2011] P. Korosec and J. Silc, The continuous differential ant-stigmergy algorithm applied to real-world optimization problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1326–1333, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Krause 2011] A. Krause, Performance of evolving trading strategies with different discount factors, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 186–191, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Kromer et al. 2011] P. Kromer, J. Platos, and V. Snasel, Differential evolution for the linear ordering problem implemented on cuda, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 795–801, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Kudo et al. 2011] F. Kudo, Y. Tomohiro, and F. Takeshi, A study on analysis of design variables in pareto solutions for conceptual design optimization problem of hybrid rocket engine, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2538–2542, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Kumar et al. 2011] P. Kumar, S. Skinner, and D. Sahar, Nearest-neighbor architecture to overcome the effects of qubit precessions on gate operations, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2716–2721, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Landassuri-Moreno and Bullinaria 2011] V. M. Landassuri-Moreno and J. A. Bullinaria, Biasing the evolution of modular neural networks, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1957–1964, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [LaTorre et al. 2011a] A. LaTorre, S. Muelas, and J.-M. Pena, Benchmarking a hybrid de-rhc algorithm on real world problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1026–1032, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [LaTorre et al. 2011b] A. LaTorre, S. Muelas, J.-M. Pena, R. Santana, and A. Merchan-Perez, A differential evolution algorithm for the detection of synaptic vesicles, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited

- by A. E. Smith, pp. 1686–1693, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Leal et al. 2011] L. Leal, M. Lemos, R. Holanda, R. Rabelo, and F. Borges, A hybrid approach based on genetic fuzzy systems for wireless sensor networks, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 964–971, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Lee et al. 2011a] B. Lee, H.-S. Seok, and B.-T. Zhang, Evolving a population code for multimodal concept learning, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 685–692, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Lee et al. 2011b] J.-H. Lee, B. Lee, J. S. Kim, R. Deaton, and B.-T. Zhang, A molecular evolutionary algorithm for learning hypernetworks on simulated dna computers, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2722–2729, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Legriel et al. 2011] J. Legriel, S. Cotton, and O. Maler, On universal search strategies for multi-criteria optimization using weighted sums, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2344–2351, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Leguizamón and Coello Coello 2011] G. Leguizamón and C. A. Coello Coello, A multi-region differential evolution algorithm for continuous optimization problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1933–1939, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Lehman and Stanley 2011] J. Lehman and K. Stanley, Improving evolvability through novelty search and self-adaptation, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2680–2687, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Lemonge et al. 2011] A. Lemonge, M. Silva, and H. Barbosa, Design optimization of geometrically nonlinear truss structures considering cardinality constraints, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 29–36, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Lepagnot et al. 2011] J. Lepagnot, A. Nakib, H. Oulhadj, and P. Siarry, Brain cine mri segmentation based on a multiagent algorithm for dynamic continuous optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1694–1701, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Li and Wang 2011] H. Li and Y. Wang, A real-binary coded genetic algorithm for solving nonlinear bilevel programming with nonconvex

- objective functions, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2476–2480, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Li and Yuan 2011] S. Li and J. Yuan, The modularity in freeform evolving neural networks, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2598–2603, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Li et al. 2011a] B. Li, X. Li, S. Mabou, and K. Hirasawa, Variable size genetic network programming with binomial distribution, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 972–979, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Li et al. 2011b] J. Li, C. Zheng, and X. Hu, A hypervolume based approach for minimal visual coverage shortest path, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1776–1783, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Li et al. 2011c] R. Li, R. Etemaadi, M. Emmerich, and M. Chaudron, An evolutionary multiobjective optimization approach to component-based software architecture design, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 432–439, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Li et al. 2011d] X. Li, B. Li, S. Mabou, and K. Hirasawa, A novel estimation of distribution algorithm using graph-based chromosome representation and reinforcement learning, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 37–44, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Liang et al. 2011] F. Liang, O. Yew-Soon, T. Ah-Hwee, and C. Xian-Shun, Towards human-like social multi-agents with memetic automaton, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1091–1098, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Lima and Ludermir 2011] N. Lima and T. Ludermir, Frankenstein pso applied to neural network weights and architectures, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2588–2592, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [lin Liu and Gu 2011] H. lin Liu and F. Gu, A improved nsga-ii algorithm based on sub-regional search, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1905–1910, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.



- [Liping and Yuping 2011] J. Liping and W. Yuping, Genetic algorithm based on primal and dual theory for solving multiobjective bilevel linear programming, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 558–565, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Liu and Qiu 2011] H. Liu and A. Qiu, Space active noise control system design with multi-objective genetic algorithms, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2179–2185, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Lockett and Miikkulainen 2011] A. Lockett and R. Miikkulainen, Measure-theoretic evolutionary annealing, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2132–2139, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Lohpetch and Corne 2011] D. Lohpetch and D. Corne, Multiobjective algorithms for financial trading multiobjective out-trades single-objective, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 192–199, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Lopez-Jaimes et al. 2011] A. Lopez-Jaimes, A. Arias-Montano, and C. A. Coello Coello, Preference incorporation to solve many-objective airfoil design problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1604–1611, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Lotif and Coelho 2011] M. Lotif and A. Coelho, Visually inspecting the search behavior of harmony search and its variants with viz3d, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 609–616, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Lu et al. 2011] X. Lu, K. Tang, and X. Yao, Classification-assisted differential evolution for computationally expensive problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1985–1992, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Lugo-Cordero et al. 2011] H. Lugo-Cordero, A. Fuentes-Rivera, R. Guha, and E. Ortiz-Rivera, Particle swarm optimization for load balancing in green smart homes, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 701–706, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Lung and Dumitrescu 2011] R. I. Lung and D. Dumitrescu, A new evolutionary approach to minimax problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1901–1904, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.

- [Ly and Lipson 2011] D. Ly and H. Lipson, Trainer selection strategies for coevolving rank predictors, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2392–2399, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Madeiro et al. 2011] S. Madeiro, E. Galvao, C. Cavellucci, C. Lyra, and F. J. Von Zuben, Simultaneous capacitor placement and reconfiguration for loss reduction in distribution networks by a hybrid genetic algorithm, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2171–2178, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Mahdi et al. 2011] S. Mahdi, Z. Mengjie, and J. Mark, Edge detection using constrained discrete particle swarm optimisation in noisy images, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 246–253, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Malago’ et al. 2011a] L. Malago’, M. Matteucci, and G. Pistone, Stochastic natural gradient descent by estimation of empirical covariances, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 948–955, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Malago’ et al. 2011b] L. Malago’, M. Matteucci, and G. Valentini, Introducing l1-regularized logistic regression in markov networks based edas, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1580–1587, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Mallipeddi and Ponnuthurai 2011] R. Mallipeddi and N. S. Ponnuthurai, Ensemble differential evolution algorithm for cec2011 problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1556–1563, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Mallipeddi et al. 2011] R. Mallipeddi, G. Iacca, N. S. Ponnuthurai, F. Neri, and E. Mininno, Ensemble strategies in compact differential evolution, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1971–1976, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Marco et al. 2011] D. Marco, D. Cairns, and C. Shankland, Optimisation of process algebra models using evolutionary computation, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1295–1300, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Mariani et al. 2011] V. Mariani, L. G. Luvizotto, C. Klein, and L. Coelho, A normative differential evolution approach for estimation of heat transfer coefficient during freezing treatment by

- inverse analysis, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 522–528, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Marti et al. 2011] L. Marti, J. Garcia, A. Berlanga, and J. M. Molina, Indicator-based moneda: A comparative study of scalability with respect to decision space dimensions, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 956–963, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Martinez et al. 2011] S. Z. Martinez, A. Arias-Montano, and C. A. Coello Coello, A nonlinear simplex search approach for multi-objective optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2360–2367, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Masuda et al. 2011] K. Masuda, H. Yokota, and K. Kurihara, An empirical study on the search directions of differential evolution, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2530–2537, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [McClymont and Keedwell 2011] K. McClymont and E. Keedwell, Benchmark multi-objective optimisation test problems with mixed encodings, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2124–2131, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Menezes and Coelho 2011] L. Menezes and A. Coelho, On ensembles of biclusters generated by niches, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 594–600, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Menezes 2011] T. Menezes, Evolutionary modeling of a blog network, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 908–915, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Menzel 2011] S. Menzel, Evolvable free-form deformation control volumes for evolutionary design optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1387–1394, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Merelo et al. 2011] J. J. Merelo, A. M. Mora, and C. Cotta, Optimizing worst-case scenario in evolutionary solutions to the mastermind puzzle, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2656–2663, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.

- [Miller et al. 2011] C. Miller, F. Moore, B. Babb, and M. Peterson, Improved reconstruction of quantized ct scans via genetic algorithms, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2286–2292, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Mirmomeni and Punch 2011] M. Mirmomeni and W. Punch, Co-evolving data driven models and test data sets with the application to forecast chaotic time series, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 14–20, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Mojica-Nava and Quijano 2011] E. Mojica-Nava and N. Quijano, A replicator dynamics weighted control technique for a dc-dc converter, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1871–1877, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Mokom and Kobti 2011] F. Mokom and Z. Kobti, Evolution of artifact capabilities, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 476–483, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Monson 2011] C. Monson, Simple adaptive cognition for pso, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1656–1663, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Moritz et al. 2011] R. Moritz, T. Ulrich, L. Thiele, and S. Buerklen, Mutation operator characterization: Exhaustiveness, locality, and bias, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1395–1402, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Morshed and Chetty 2011] N. Morshed and M. Chetty, Reconstructing genetic networks with concurrent representation of instantaneous and time-delayed interactions, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1839–1846, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Mousavi et al. 2011] M. Mousavi, S. Hoque, S. Rahnamayan, I. Dincer, and G. F. Naterer, Optimal design of an air-cooling system for a li-ion battery pack in an electric vehicle with a genetic algorithm, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1847–1854, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Muehleisen et al. 2011] H. Muehleisen, T. Walther, and R. Tolksdorf, Multi-level indexing in a distributed self-organized storage system, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 988–993, New

- Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Munawar et al. 2011] A. Munawar, M. Wahib, M. Munetomo, and K. Akama, Advanced genetic algorithm to solve minlp problems over gpu, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 318–325, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Munetomo 2011] M. Munetomo, Realizing robust and scalable evolutionary algorithms toward exascale era, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 312–317, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Munoz et al. 2011] D. Munoz, C. Llanos, L. Coelho, and M. Ayala, Opposition-based shuffled pso with passive congregation applied to fm matching synthesis, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2762–2768, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [N. and Kobti 2011] M. R. R. N. and Z. Kobti, A machine operation lists based memetic algorithm for job shop scheduling, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2429–2436, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Nagy et al. 2011] R. Nagy, D. Dumitrescu, and R. I. Lung, Fuzzy equilibria for games involving  $n > 2$  players, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2642–2648, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Nairat et al. 2011] M. Nairat, P. Dahlstedt, and M. Nordahl, Character evolution approach to generative storytelling, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1131–1136, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Namura et al. 2011] N. Namura, K. Shimoyama, S. Jeong, and S. Obayashi, Kriging/rbf-hybrid response surface method for highly nonlinear functions, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2514–2521, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Naruchitparames et al. 2011] J. Naruchitparames, M. Gunes, and S. Louis, Friend recommendations in social networks using genetic algorithms and network topology, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2200–2207, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Nasir et al. 2011] M. Nasir, A. Mondal, S. Sengupta, S. Das, and A. Abraham, An improved multiobjective evolutionary algorithm based

- on decomposition with fuzzy dominance, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 752–759, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Neto et al. 2011a] A. F. Neto, A. Canuto, E. Goldbarg, and M. Goldbarg, Optimization techniques for the selection of members and attributes in ensemble systems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1911–1918, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Neto et al. 2011b] O. V. Neto, I. Bezerra, M. A. Pacheco, and A. Pimentel, Evolutionary optimization of sets of basis functions for first-row atoms by using discretization process, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 544–549, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Neto et al. 2011c] O. V. Neto, M. A. Pacheco, A. Pimentel, and E. Silveira, A parallel evolutionary algorithm to search for global minima geometries of heterogeneous ab initio atomic clusters, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 537–543, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Nguyen and Bhanu 2011] H. T. Nguyen and B. Bhanu, Tracking pedestrians with bacterial foraging optimization swarms, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 491–495, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Nguyen et al. 2011] T. H. Nguyen, X. H. Nguyen, and R. I. McKay, A study on genetic programming with layered learning and incremental sampling, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1184–1190, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [nien Lin et al. 2011] C. nien Lin, C.-L. Huo, S.-Y. Lin, Y.-H. Yu, and T.-Y. Sun, Taguchi-based disturbance with tournament selection to improve on mopso, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1804–1809, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Noman and Iba 2011] N. Noman and H. Iba, Solving dynamic economic dispatch problems using cellular differential evolution, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2626–2633, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Noman et al. 2011] N. Noman, D. Bollegala, and H. Iba, An adaptive differential evolution algorithm, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E.

- Smith, pp. 2222–2229, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Oh et al. 2011] I. S. Oh, Y.-G. Lee, and R. I. McKay, Simulating chemical evolution, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2704–2711, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Oiso et al. 2011] M. Oiso, Y. Matsumura, T. Yasuda, and K. Ohkura, Accelerating steady-state genetic algorithms based on cuda architecture, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 673–678, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Okdem et al. 2011] S. Okdem, D. Karaboga, and C. Ozturk, An application of wireless sensor network routing based on artificial bee colony algorithm, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 326–330, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Oliveira and Interciso 2011] P. Oliveira and M. Interciso, Ternary representation improves the search for binary, one-dimensional density classifier cellular automata, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1919–1925, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Oner et al. 2011] A. Oner, S. Ozcan, and D. Dengi, Optimization of university course scheduling problem with a hybrid artificial bee colony algorithm, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 339–346, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ozcan and Esnaf 2011] T. Ozcan and S. Esnaf, A heuristic approach based on artificial bee colony algorithm for retail shelf space optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 95–101, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ozturk and Karaboga 2011] C. Ozturk and D. Karaboga, Hybrid artificial bee colony algorithm for neural network training, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 84–88, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Palotti et al. 2011] J. Palotti, T. Salles, G. L. Pappa, M. A. Goncalves, and W. Meira, Jr., Assessing documents’ credibility with genetic programming, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 200–207, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Papa and Garbolino 2011] G. Papa and T. Garbolino, Optimal on-line built-in self-test structure for system-reliability improvement, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*,

- edited by A. E. Smith, pp. 222–229, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Parker and Fritzsche 2011] G. Parker and P. Fritzsche, Fitness biasing for evolving an xpilot combat agent, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1070–1075, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Parker and Tarimo 2011] G. Parker and W. Tarimo, The effects of using a greedy factor in hexapod gait learning, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1508–1513, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Parker et al. 2011] G. Parker, W. Tarimo, and M. Cantor, Quadruped gait learning using cyclic genetic algorithms, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1528–1533, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Parkinson et al. 2011] E. Parkinson, A. Ghandar, Z. Michalewicz, and A. Tuson, Estimating the reproductive potential of offspring in evolutionary heuristics for combinatorial optimization problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 172–178, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Parracho et al. 2011] P. Parracho, R. Neves, and N. Horta, Trading with optimized uptrend pattern template using a genetic algorithm kernel, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1894–1900, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Pasti et al. 2011] R. Pasti, R. D. Maia, F. J. Von Zuben, and L. N. de Castro, Heuristics to avoid redundant solutions on population-based multimodal continuous optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2314–2321, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Perez and Riff 2011] L. Perez and M.-C. Riff, New bounds for the relaxed traveling tournament problems using an artificial immune algorithm, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 872–878, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Peterson et al. 2011] G. Peterson, C. Mayer, and K. Cousin, Wolf ant, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 994–1001, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Piccolo and Squillero 2011] E. Piccolo and G. Squillero, Adaptive opponent modelling for the iterated prisoner’s dilemma, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited



- by A. E. Smith, pp. 835–840, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Pilat and Neruda 2011] M. Pilat and R. Neruda, Asm-moma: Multiobjective memetic algorithm with aggregate surrogate model, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1207–1213, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Pitangui and Zaverucha 2011] C. Pitangui and G. Zaverucha, Inductive logic programming through estimation of distribution algorithm, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 54–61, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Poladian 2011] L. Poladian, A genotype-to-phenotype mapping for microstructured polymer optical fibres, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 378–385, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Polushina and Sofronov 2011] T. Polushina and G. Sofronov, Change-point detection in biological sequences via genetic algorithm, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1965–1970, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Pradipta et al. 2011] G. Pradipta, Z. Hamim, S. Das, and A. Abraham, Hierarchical dynamic neighborhood based particle swarm optimization for global optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 744–751, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Prampero and Attux 2011] P. S. Prampero and R. Attux, Magnetic particle swarm optimization with estimation of distribution, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1993–2000, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Preen and Bull 2011] R. J. Preen and L. Bull, Arithmetic dynamical genetic programming in the xcsf learning classifier system, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1427–1434, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Qadir et al. 2011] O. Qadir, J. Liu, G. Tempesti, J. Timmis, and A. Tyrrell, Hardware architecture for a bidirectional hetero-associative protein processing associative memory, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 208–215, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Raich and Fritz 2011] A. Raich and K. Fritz, Benefits of implicit redundant representation genetic algorithms for conceptual design and

- damage identification, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 6–13, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Reynolds and Liu 2011] R. Reynolds and D. Liu, Multi-objective cultural algorithms, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1238–1246, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Reynolds et al. 2011] A. Reynolds, A. Abdollahzadeh, D. Corne, M. Christie, B. Davies, and G. Williams, A parallel boa-pso hybrid algorithm for history matching, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 893–900, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Reynoso-Meza et al. 2011] G. Reynoso-Meza, J. Sanchis, X. Blasco, and J. M. Herrero, Hybrid de algorithm with adaptive crossover operator for solving real-world numerical optimization problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1550–1555, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Rivero et al. 2011a] D. Rivero, E. Fernandez-Blanco, J. Dorado, and A. Pazos, A new signal classification technique by means of genetic algorithms and knn, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 574–579, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Rivero et al. 2011b] D. Rivero, E. Fernandez-Blanco, J. Dorado, and A. Pazos, Using recurrent anns for the detection of epileptic seizures in eeg signals, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 580–585, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Rocha et al. 2011] M. Rocha, T. Sa, P. Sousa, P. Cortez, and M. Rio, Multiobjective evolutionary algorithms for intradomain routing optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2265–2272, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Roedland 2011] T. A. L. Roedland, Classifying glyphs by combining evolution and learning, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2068–2075, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Rohlfshagen and Lucas 2011] P. Rohlfshagen and S. Lucas, Ms pac-man versus ghost team cec 2011 competition, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 70–77, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.

- [Rosberg et al. 2011] I. Rosberg, E. Goldberg, and M. Goldberg, Solving the light up with ant colony optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 566–573, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ross 2011] B. Ross, Evolution of stochastic bio-networks using summed rank strategies, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 772–779, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Rothman et al. 2011] D. Rothman, S. Luke, and K. Sullivan, Do multiple trials help univariate methods?, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2384–2391, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Rudolph 2011] G. Rudolph, On geometrically fast convergence to optimal dominated hypervolume of set-based multiobjective evolutionary algorithms, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1718–1722, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Saha and Ray 2011] A. Saha and T. Ray, How does the good old genetic algorithm fare at real world optimization?, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1048–1055, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Saha et al. 2011] A. Saha, T. Ray, and W. Smith, Towards practical evolutionary robust multi-objective optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2116–2123, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Sakurai et al. 2011] Y. Sakurai, K. Takada, N. Tsukamoto, T. Onoyama, R. Knauf, and S. Tsuruta, A simple optimization method based on backtrack and ga for delivery schedule, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2777–2784, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Salekdeh and Wiese 2011] A. Y. Salekdeh and K. C. Wiese, Improving splice-junctions classification employing a novel encoding schema and decision-tree, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1301–1306, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Salmani-Jelodar et al. 2011] M. Salmani-Jelodar, S. Steiger, A. Paul, and G. Klimeck, Model development for lattice properties of gallium arsenide using parallel genetic algorithm, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2422–2428, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.

- [Sanchez et al. 2011] E. Sanchez, G. Squillero, and A. Tonda, Group evolution: Emerging synergy through a coordinated effort, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2649–2655, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Sato et al. 2011] Y. Sato, N. Hasegawa, and M. Sato, Gpu acceleration for sudoku solution with genetic operations, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 296–303, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Schaul et al. 2011] T. Schaul, Y. Sun, D. Wierstra, F. Gomez, and J. Schmidhuber, Curiosity-driven optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1342–1348, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Schroeder et al. 2011] A. Schroeder, C. Wrzodek, J. Wollnik, A. Draeger, D. Wanke, K. W. Berendzen, and A. Zell, Inferring transcriptional regulators for sets of co-expressed genes by multi-objective evolutionary optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2278–2285, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Scola et al. 2011] L. Scola, O. Neto, R. Takahashi, and S. Cerqueira, Multi-objective optimal multiple reservoir operation, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1926–1932, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Segredo et al. 2011] E. Segredo, C. Segura, and C. Leon, A multiobjectivised memetic algorithm for the frequency assignment problem, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1137–1144, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Seren 2011] C. Seren, A hybrid jumping particle swarm optimization method for high dimensional unconstrained discrete problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1648–1655, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Seridi et al. 2011] K. Seridi, L. Jourdan, and E.-G. Talbi, Multi-objective evolutionary algorithm for biclustering in microarrays data, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2573–2579, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.

- [Shaban-Nejad and Haarslev 2011] A. Shaban-Nejad and V. Haarslev, An abstract representation model for evolutionary analysis of multi-agent interactions, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2001–2008, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Sharma et al. 2011] D. Sharma, D. Srinivasan, and A. Trivedi, Multi-agent approach for profit based unit commitment, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2507–2513, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Shelokar et al. 2011] P. Shelokar, Q. Arnaud, and C. Oscar, Subgraph mining in graph-based data using multiobjective evolutionary programming, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1729–1736, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Shi and Song 2011] Q. Shi and A. Song, Selective motion detection by genetic programming, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 496–503, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Shi et al. 2011] E. C. Shi, F. H. Leung, and J. C. Lai, An adaptive differential evolution with unsymmetrical mutation, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1878–1885, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Shindo et al. 2011] T. Shindo, T. Kurihara, H. Taguchi, and K. Jin’no, Particle swarm optimization for single phase pwm inverters, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2481–2485, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Shirasaki et al. 2011] Y. Shirasaki, S. Shimomura, M. Sugimoto, Y. Uwate, and Y. Nishio, Effectiveness of guidepost pheromone for honeybee colony optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1792–1797, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Shirazi et al. 2011] A. S. Shirazi, S. von Mammen, and C. Jacob, Hierarchical self-organized learning in agent-based modeling of the mapk signaling pathway, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2238–2244, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Silva et al. 2011] D. Silva, L. Pacifico, and T. Ludermir, An evolutionary extreme learning machine based on group search optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith,

- pp. 760–766, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Singh and Ray 2011] H. K. Singh and T. Ray, Performance of a hybrid ea-de-memetic algorithm on cec 2011 real world optimization problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1321–1325, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Sonstrod et al. 2011] C. Sonstrod, U. Johansson, and R. Konig, Evolving accurate and comprehensible classification rules, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1435–1442, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Spangenberg et al. 2011] J. Spangenberg, C. C. Tutum, J. H. Hattel, N. Roussel, and M. R. Geiker, Optimization of casting process parameters for homogeneous aggregate distribution in self-compacting concrete: A feasibility study, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2156–2162, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Srinivasan and Ly 2011] D. Srinivasan and T. T. Ly, Co-evolutionary bidding strategies for buyers in electricity power markets, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2499–2506, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Steiner and Sendhoff 2011] T. Steiner and B. Sendhoff, Evolvability of graph- and vector field embryogeny representations, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1271–1278, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Takahama and Sakai 2011] T. Takahama and S. Sakai, Efficient nonlinear optimization by differential evolution with a rotation-invariant local sampling operation, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2208–2215, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Tantar et al. 2011] E. Tantar, A.-A. Tantar, and B. Pascal, On dynamic multi-objective optimization, classification and performance measures, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2746–2753, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Tasgetiren et al. 2011] M. F. Tasgetiren, O. Bulut, and M. M. Fadiloglu, A discrete artificial bee colony algorithm for the economic lot scheduling problem, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 347–353, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Thillainathan and Srinivasan 2011] L. Thillainathan and D. Srinivasan, Lrga for solving profit based generation scheduling problem in competitive

- environment, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1153–1159, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Tizzo et al. 2011] N. P. Tizzo, J. M. A. Coello, and E. Cardozo, Automatic composition of semantic web services using a-teams with genetic agents, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 370–377, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Tjiong and Monteiro 2011] A. Tjiong and S. Monteiro, Feature selection with pso and kernel methods for hyperspectral classification, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1761–1768, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Toledo et al. 2011] C. Toledo, R. Oliveira, and P. Franca, A hybrid heuristic approach to solve the multi level capacitated lot sizing problem, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1199–1206, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Tomforde et al. 2011] S. Tomforde, A. Brameshuber, J. Haehner, and C. Mueller-Schloer, Restricted on-line learning in real-world systems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1627–1634, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Trivedi et al. 2011] A. Trivedi, N. M. Pindoriya, D. Srinivasan, and D. Sharma, Improved multi-objective evolutionary algorithm for day-ahead thermal generation scheduling, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2163–2170, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Tsang and Jacob 2011] H. H. Tsang and C. Jacob, Rnadpcmpare: An algorithm for comparing rna secondary structures based on image processing techniques, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1287–1294, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Tsujimoto et al. 2011] T. Tsujimoto, T. Shindo, and K. Jin’no, The neighborhood of canonical deterministic pso, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1810–1816, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Tsutsui and Fujimoto 2011] S. Tsutsui and N. Fujimoto, Fast gap solving by aco with 2-opt local search on a gpu, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 811–818, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.

- [Tutum and Fan 2011] C. C. Tutum and Z. Fan, Multi-criteria layout synthesis of mems devices using memetic computing, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 901–907, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [U et al. 2011] M. U, C. Ho, S. Funk, and K. Rasheed, Gart: A genetic algorithm based real time system scheduler, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 885–892, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Uchitane and Hatanaka 2011] T. Uchitane and T. Hatanaka, Applying evolution strategies to biped locomotion learning in robocup 3d soccer simulation, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 179–185, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Uemura et al. 2011] K. Uemura, S. ichi Kinoshita, Y. Nagata, S. Kobayashi, and I. Ono, A new framework taking account of multi-funnel functions for real-coded genetic algorithms, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2084–2091, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Valdes et al. 2011] J. J. Valdes, C. Cheung, and W. Wang, Evolutionary computation methods for helicopter loads estimation, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1588–1595, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Vansant et al. 2011] G. Vansant, P. Pezzoli, J. Monforte, and G. Fogel, High-throughput toxicological classification of candidate drug compounds using gene expression, evolved neural networks, and a cell-based platform, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 788–794, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Vasicek and Bidlo 2011] Z. Vasicek and M. Bidlo, Evolutionary design of robust noise-specific image filters, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 269–276, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Vazquez et al. 2011] E. Vazquez, C. A. Coello Coello, and F. Sagols, An evolutionary algorithm for tuning a chess evaluation function, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 841–847, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Vazquez 2011] R. A. Vazquez, Training spiking neural models using cuckoo search algorithm, in *Proceedings of the 2011 IEEE*



- Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 665–672, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Veroneze et al. 2011] R. Veroneze, F. de Franca, and F. J. Von Zuben, Assessing the performance of a swarm-based biclustering technique for data imputation, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 386–393, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Wahib et al. 2011] M. Wahib, A. Munawar, M. Munetomo, and K. Akama, Optimization of parallel genetic algorithms for nvidia gpus, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 802–810, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Walsh and Gade 2011] P. Walsh and P. Gade, The use of an aesthetic measure for the evolution of fractal landscapes, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1612–1618, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Wang et al. 2011a] H. Wang, S. Rahnamayan, and Z. Wu, Adaptive differential evolution with variable population size for solving high-dimensional problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2619–2625, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Wang et al. 2011b] L. Wang, S. Mabu, and K. Hirasawa, Genetic network programming with updating rule accumulation, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2252–2259, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Wang et al. 2011c] P. Wang, K. Tang, E. Tsang, and X. Yao, A memetic genetic programming with decision tree-based local search for classification problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 916–923, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Wang et al. 2011d] Y. Wang, L. Bin, H. Zhen, and Z. Kaibo, Enhancing differential evolution with effective evolutionary local search in memetic framework, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2445–2452, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Wang et al. 2011e] Y. Wang, B. Li, and K. Zhang, Estimation of distribution and differential evolution cooperation for real-world numerical optimization problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1314–1320, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.

- [Wang et al. 2011f] Z. Wang, R. Yang, L. Wang, R. Green, II, and A. Dounis, A fuzzy adaptive comfort temperature model with grey predictor for multi-agent control system of smart building, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 715–722, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Wei and Zhang 2011] J. Wei and M. Zhang, A memetic particle swarm optimization for constrained multi-objective optimization problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1635–1642, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [wei Gong et al. 2011] D. wei Gong, C. liang Qi, Y. Zhang, and M. Li, Modified particle swarm optimization for odor source localization of multi-robot, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 130–136, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Wen and Xu 2011] Y. Wen and H. Xu, A cooperative coevolution-based pittsburgh learning classifier system embedded with memetic feature selection, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2408–2415, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Wilcox et al. 2011] D. Wilcox, A. McNabb, and K. Seppi, Solving virtual machine packing with a reordering grouping genetic algorithm, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 362–369, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Wong et al. 2011] M. Wong, X. He, and W. chang Yeh, Image clustering using particle swarm optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 262–268, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Wu et al. 2011] Y. Wu, J. McCall, and D. Corne, Fitness landscape analysis of bayesian network structure learning, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 980–987, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Xing et al. 2011] Y. Xing, S. Mabu, and K. Hirasawa, Pruning generalized rules for stock markets accumulated by genetic network programming with rule accumulation, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2461–2467, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Xiong et al. 2011] J. Xiong, J. Liu, Y. Chen, and H. Abbass, An evolutionary multi-objective scenario-based approach for stochastic resource investment project scheduling, in *Proceedings of the 2011 IEEE Congress on Evolutionary*

- Computation*, edited by A. E. Smith, pp. 2754–2761, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Yagoubi et al. 2011] M. Yagoubi, L. Thobois, and M. Schoenauer, Asynchronous evolutionary multi-objective algorithms with heterogeneous evaluation costs, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 21–28, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Yapicioglu and Smith 2011] H. Yapicioglu and A. E. Smith, Disservice representation using the gini coefficient in semi-desirable facility location problems, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 110–114, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Ye and Mohamadian 2011] Z. Ye and H. Mohamadian, Strengthen accuracy of feature recognition via integration of ant colony detection and adaptive contour tracking, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1798–1803, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Yen et al. 2011] L. T. X. Yen, D. Sharma, D. Srinivasan, and P. N. Manji, A modified hybrid particle swarm optimization approach for unit commitment, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1737–1744, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Yoon and Cho 2011] J.-W. Yoon and S.-B. Cho, An efficient genetic algorithm with fuzzy c-means clustering for traveling salesman problem, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1451–1455, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Yu et al. 2011] J. J. Yu, A. Y. Lam, and V. O. Li, Evolutionary artificial neural network based on chemical reaction optimization, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2076–2083, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Zamorano et al. 2011] A. G. Zamorano, J. Timmis, and A. Tyrrell, A flexible decentralised communication architecture on a field programmable gate array for swarm system simulations, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 230–237, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Zeng et al. 2011] F. Zeng, D. James, M. Y. H. Low, W. Cai, and P. Hingston, Studies of pareto-based multi-objective competitive coevolutionary dynamics, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2376–2383, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.

- [Zhan and Zhang 2011] Z. Zhan and J. Zhang, Orthogonal learning particle swarm optimization for power electronic circuit optimization with free search range, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2543–2550, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Zhang et al. 2011a] D. Zhang, S. Mabu, F. Wen, and K. Hirasawa, A sequential subspace face recognition framework using genetic-based clustering, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 394–400, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Zhang et al. 2011b] J. Zhang, S. Chen, D. Levy, and Y. Lu, Feedback loop mechanisms based particle swarm optimization with neighborhood topology, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1863–1870, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Zhang 2011a] H. Zhang, An analysis of multiple particle swarm optimizers with inertia weight with diversive curiosity, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1753–1760, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Zhang 2011b] H. Zhang, Assessment of an evolutionary particle swarm optimizer with inertia weight, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1745–1752, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Zhong et al. 2011] W. Zhong, Y. Zhang, and J. Liu, Evolutionary dynamics of continuous strategy games on social networks under weak selection: A preliminary study, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 2494–2498, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.
- [Zhou et al. 2011] L. Zhou, A. Zhou, G. Zhang, and C. Shi, An estimation of distribution algorithm based on nonparametric density estimation, in *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by A. E. Smith, pp. 1596–1603, New Orleans, USA, 5-8 June 2011, IEEE Computational Intelligence Society, IEEE Press.