Список литературы

[AAMMCR14] M.-Y. Ameca-Alducin, E. Mezura-Montes, and N. Cruz-Ramirez, "Differential evolution with combined variants for dynamic constrained optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 975–982.

[ABM14] M. Alvares, F. Buarque, and T. Marwala, "Application of computational intelligence for source code classification," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 895–902.

[ABN14] S. Adriaensen, T. Brys, and A. Nowe, "Designing reusable metaheuristic methods: A semi-automated approach," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2969–2976.

[ABS14] R. Azzouz, S. Bechikh, and L. B. Said, "A multiple reference point-based evolutionary algorithm for dynamic multi-objective optimization with undetectable changes," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3168–3175.

[ADGLFA14] N. Arana-Daniel, A. A. Gallegos, C. Lopez-Franco, and A. Y. Alanis, "Smooth global and local path planning for mobile robot using particle swarm optimization, radial basis functions, splines and Bezier curves," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 175–182.

[ADKR14] S. Alam, G. Dobbie, Y. S. Koh, and P. Riddle, "Web bots detection using particle swarm optimization based clustering," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2955–2962.

[AH14] D. Ashlock and P. Hingston, "*Tego - a framework for adversarial planning," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 13–20.

[AIV14] G. Acampora, H. Ishibuchi, and A. Vitiello, "A comparison of multi-objective evolutionary algorithms for the ontology meta-matching problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 413–420.

[AJB14] W. A. Albukhanajer, Y. Jin, and J. A. Briffa, "Neural network ensembles for image identification using Pareto-optimal features," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 89–96.

[AKB14] J. Angelo, E. Krempser, and H. Barbosa, "Differential evolution assisted by a surrogate model for bilevel programming problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1784–1791.

[AL14a] J. Aalto and J. Lampinen, "A mutation and crossover adaptation mechanism for differential evolution algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 451–458.

[AL14b] F. Alanazi and P. K. Lehre, "Runtime analysis of selection hyper-heuristics with classical learning mechanisms," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2515–2523.

[AMA+14]   M. Ali, A. Morghem, J. AlBadarneh, R. Al-Gharaibeh, P. Suganthan, and R. Reynolds, "Cultural algorithms applied to the evolution of robotic soccer team tactics: A novel perspective," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2180–2187.

[AOB14]   A. Agapitos, M. O'Neill, and A. Brabazon, "Ensemble Bayesian model averaging in genetic programming," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2451–2458.

[AR14]   M. R. Ameerudden and H. Rughooputh, "Smart hybrid genetic algorithms in the bandwidth optimization of a PIFA antenna," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1390–1396.

[ARA14]   K. Alam, T. Ray, and S. G. Anavatti, "Practical application of an evolutionary algorithm for the design and construction of a six-inch submarine," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2825–2832.

[AS14]   S. Akhmedova and E. Semenkin, "Co-operation of biology related algorithms metaheuristic in ANN-based classifiers design," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 867–872.

[ATE+14]   R. Amin, J. Tang, M. Ellejmi, S. Kirby, and H. A. Abbass, "Trading-off simulation fidelity and optimization accuracy in air-traffic experiments using differential evolution," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 475–482.

[AV14]   S. Alicino and M. Vasile, "An evolutionary approach to the solution of multi-objective min-max problems in evidence-based robust optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1179–1186.

[AXP14]   W. Abdul, G. Xiaoying, and A. Peter, "Multi-view clustering of web documents using multi-objective genetic algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2625–2632.

[AZ14]   A. Alhindi and Q. Zhang, "MOEA/D with tabu search for multiobjective permutation flow shop scheduling problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1155–1164.

[AZP14]   S. Ahmed, M. Zhang, and L. Peng, "A new GP-based wrapper feature construction approach to classification and biomarker identification," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2756–2763.

[BAA14]   S. Bouaziz, A. M. Alimi, and A. Abraham, "PSO-based update memory for improved harmony search algorithm to the evolution of FBBFNT' parameters," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1951–1958.

[BBK14]   A. Buck, T. Banerjee, and J. Keller, "Evolving a fuzzy goal-driven strategy for the game of Geister," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 28–35.

[BDH+14]   R. Burman, S. Das, Z. Haque, A. V. Vasilakos, and S. Chakraborti, "The monarchy driven optimization algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3008–3015.

[BDSC14]   S. Biswas, S. Das, P. N. Suganthan, and C. A. C. Coello, "Evolutionary multiobjective optimization in dynamic environments: A set of novel benchmark functions," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3192–3199.

[BEDV14]   S. Biswas, M. A. Eita, S. Das, and A. V. Vasilakos, "Evaluating the performance of group counseling optimizer on CEC 2014 problems for computational expensive optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1076–1083.

[Bid14]   M. Bidlo, "Evolving multiplication as emergent behavior in cellular automata using conditionally matching rules," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2732–2739.

[BLZ14]   C. Bu, W. Luo, and T. Zhu, "Differential evolution with a species-based repair strategy for constrained optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 967–974.

[BNBO14]   J. Byrne, M. Nicolau, A. Brabazon, and M. O'Neill, "An examination of synchronisation in artificial gene regulatory networks," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2764–2769.

[BND14]   S. Bandaru, A. Ng, and K. Deb, "On the performance of classification algorithms for learning Pareto-dominance relations," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1139–1146.

[BNZ14]   S. Bennett, S. Nguyen, and M. Zhang, "A hybrid discrete particle swarm optimisation method for grid computation scheduling," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 483–490.

[BOC14]   G. Bello-Orgaz and D. Camacho, "Evolutionary clustering algorithm for community detection using graph-based information," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 930–937.

[BRC14]   A. Bolufe-Rohler and S. Chen, "Extending minimum population search towards large scale global optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 845–852.

[BRN14]   F. Bourennani, S. Rahnamayan, and G. F. Naterer, "Multi-objective differential evolution with leadership enhancement (MODEL)," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1131–1138.

[BSvdA14]   A. Burattin, A. Sperduti, and W. M. P. van der Aalst, "Control-flow discovery from event streams," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2420–2427.

[BT14]   O. Bulut and M. F. Tasgetiren, "A discrete artificial bee colony algorithm for the economic lot scheduling problem with returns," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 551–557.

[BTGIGF14] O. Brent, D. Thiruvady, A. Gomez-Iglesias, and R. Garcia-Flores, "A parallel Lagrangian-ACO heuristic for project scheduling," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2985–2991.

[BTP14]   P. Bujok, J. Tvrdik, and R. Polakova, "Differential evolution with rotation-invariant mutation and competing-strategies adaptation," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2253–2258.

[BWvB14]   T. Brands, L. Wismans, and E. van Berkum, "Multi-objective transportation network design: Accelerating search by applying e-NSGAII," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 405–412.

[CAH14]   A. Chotard, A. Auger, and N. Hansen, "Markov chain analysis of evolution strategies on a linear constraint optimization problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 159–166.

[CC14]   S.-W. Chen and T.-C. Chiang, "Evolutionary many-objective optimization by MO-NSGA-II with enhanced mating selection," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1397–1404.

[CCB14]   T. Cui, S. Cheng, and R. Bai, "A combinatorial algorithm for the cardinality constrained portfolio optimization problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 491–498.

[CCLC14]   C.-H. Chou, H. Chia-Ling, and P.-C. Chang, "A RFID network design methodology for decision problem in health care," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1586–1592.

[CCT14]   A. Campbell, V. Ciesielski, and K. Trist, "A self organising map based method for understanding features associated with high aesthetic value evolved abstract images," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2274–2281.

[CD14]   Y. Cai and J. Du, "Enhanced differential evolution with adaptive direction information," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 305–312.

[CE14]   C. Cleghorn and A. Engelbrecht, "Particle swarm convergence: An empirical investigation," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2524–2530.

[CF14]   L. Carvalho and M. Fernandes, "Multi-objective flexible job-shop scheduling problem with DIPSO: More diversity, greater efficiency," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 282–289.

[CGCAM14] I. Chaman-Garcia, C. C. Coello, and A. Arias-Montano, "MOPSOhv: A new hypervolume-based multi-objective particle swarm optimizer," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 266–273.

[CH14]   P.-C. Chang and X. He, "Macroscopic indeterminacy swarm optimization (MISO) algorithm for real-parameter search," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1571–1578.

[CHSC14]   L. P. Cota, M. N. Haddad, M. J. F. Souza, and V. N. Coelho, "AIRP: A heuristic algorithm for solving the unrelated parallel machine scheduling problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1855–1862.

[CIML14]   J. Ceberio, E. Irurozki, A. Mendiburu, and J. A. Lozano, "Extending distance-based ranking models in estimation of distribution algorithms," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2459–2466.

[CJ14]   R. Cheng and Y. Jin, "Demonstrator selection in a social learning particle swarm optimizer," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3103–3110.

[CJL$^+$14]   I. Cooper, M. John, R. Lewis, A. Olden, and C. Mumford, "Optimising large scale public transport network design problems using mixed-mode parallel multi-objective evolutionary algorithms," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2841–2848.

[CK14]   M. Campos and R. Krohling, "Bare bones particle swarm with scale mixtures of Gaussians for dynamic constrained optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 202–209.

[CKK14]   H. Chatbri, P. Kwan, and K. Kameyama, "A modular approach for query spotting in document images and its optimization using genetic algorithms," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2085–2092.

[CLZ14]   G. Chen, W. Luo, and T. Zhu, "Evolutionary clustering with differential evolution," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1382–1389.

[CLZX14]   L. Chen, H.-L. Liu, Z. Zheng, and S. Xie, "A evolutionary algorithm based on covariance matrix leaning and searching preference for solving CEC 2014 benchmark problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2672–2677.

[CPL14]   P. Cheng, J.-S. Pan, and C.-W. Lin, "Use EMO to protect sensitive knowledge in association rule mining by removing items," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1108–1115.

[CR14]   X. Che and R. Reynolds, "A social metrics based process model on complex social system," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2214–2221.

[CRKN14]   A. Chowdhury, P. Rakshit, A. Konar, and A. Nagar, "A modified bat algorithm to predict protein-protein interaction network," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1046–1053.

[CRRM14]   K. Y. Chan, N. Rajakaruna, C. Rathnayake, and I. Murray, "Image deblurring using a hybrid optimization algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1243–1249.

[CSQ$^+$14]   S. Cheng, Y. Shi, Q. Qin, T. O. Ting, and R. Bai, "Maintaining population diversity in brain storm optimization algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3230–3237.

[CSX14]   Y. Chen, Y. Shang, and D. Xu, "Multi-dimensional scaling and MODELLER-based evolutionary algorithms for protein model refinement," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1038–1045.

[CWL14]   Z. Cai, S. Wen, and L. Liu, "Distributed wireless sensor scheduling for multi-target tracking based on matrix-coded parallel genetic algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2013–2018.

[CY14]   C. K. Chow and S. Y. Yuen, "A dynamic history-driven evolutionary algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1558–1564.

[CZZ⁺14]   M.-R. Chen, W. Zeng, G.-Q. Zeng, X. Li, and J.-P. Luo, "A novel artificial bee colony algorithm with integration of extremal optimization for numerical optimization problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 242–249.

[Dav14]   J. Davila, "Genotype coding, diversity, and dynamic environments: A study on an evolutionary neural network multi-agent system," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2306–2313.

[DC14]   X. Du and X. Chang, "Performance of AI algorithms for mining meaningful roles," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2070–2076.

[DCX⁺14]   J. Ding, L. Chen, Q. Xie, T. Chai, and X. Zheng, "Effect of pseudo gradient on differential evolutionary for global numerical optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2019–2026.

[DDB14]   Y. Dhebar, K. Deb, and S. Bandaru, "Non-uniform mapping in real-coded genetic algorithms," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2237–2244.

[DHRM14]   R. Dornberger, T. Hanne, R. Ryter, and S. Michael, "Optimization of the picking sequence of an automated storage and retrieval system (AS/RS)," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2817–2824.

[DNBO14]   S. Donne, M. Nicolau, C. Bean, and M. O'Neill, "Wave height quantification using land based seismic data with grammatical evolution," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2909–2916.

[DRKN14]   S. Datta, P. Rakshit, A. Konar, and A. K. Nagar, "Selecting the optimal EEG electrode positions for a cognitive task using an artificial bee colony with adaptive scale factor optimization algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2748–2755.

[DS14]   L. Dawson and I. Stewart, "Accelerating ant colony optimization-based edge detection on the GPU using CUDA," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1736–1743.

[DSML14]   E. Debie, K. Shafi, K. Merrick, and C. Lokan, "An online evolutionary rule learning algorithm with incremental attribute discretization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1116–1123.

[dSMZ14]   A. S. da Silva, H. Ma, and M. Zhang, "A graph-based particle swarm optimisation approach to QoS-aware web service composition and selection," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3127–3134.

[DSZP14]   D. Davendra, R. Senkerik, I. Zelinka, and M. Pluhacek, "Scatter search algorithm with chaos based stochasticity," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 860–866.

[DSZW14]   J. Ding, S. Song, R. Zhang, and C. Wu, "Minimizing makespan for a no-wait flowshop using tabu mechanism improved iterated greedy algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1906–1911.

[DT14]   K. Ding and Y. Tan, "Comparison of random number generators in particle swarm opimization algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2664–2671.

[DTT$^+$14]   W. Dong, J. Tian, X. Tang, K. Sheng, and J. Liu, "Autonomous learning adaptation for particle swarm optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 223–228.

[dVGVN$^+$14]   F. F. de Vega, M. Garcia-Valdez, L. Navarro, C. Cruz, P. Hernandez, T. Gallego, and J. V. Albarran, "When artists met Evospace-i," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2282–2289.

[DXH$^+$14]   P. Duan, S. Xiong, Z. Hu, Q. Chen, and X. Zhong, "Multi-objective optimization model based on steady degree for teaching building evacuation," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 924–929.

[DY14]   G. Dick and X. Yao, "Model representation and cooperative coevolution for finite-state machine evolution," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2700–2707.

[DZ14]   W. Dong and S. Zeng, "Linear sparse arrays designed by dynamic constrained multi-objective evolutionary algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3067–3072.

[ED14]   Y. Enaya and K. Deb, "Network path optimization under dynamic conditions," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2977–2984.

[ELH14]   T. Everitt, T. Lattimore, and M. Hutter, "Free lunch for optimisation under the universal distribution," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 167–174.

[ERS14]   S. Elsayed, T. Ray, and R. Sarker, "A surrogate-assisted differential evolution algorithm with dynamic parameters selection for solving expensive optimization problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1062–1068.

[ERW14a]   I. Erlich, J. L. Rueda, and S. Wildenhues, "Evaluating the mean-variance mapping optimization on the IEEE-CEC 2014 test suite," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1625–1632.

[ERW14b]   ——, "Solving the IEEE-CEC 2014 expensive optimization test problems by using single-particle MVMO," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1084–1091.

[ESE14]   S. Elsayed, R. Sarker, and D. Essam, "United multi-operator evolutionary algorithms," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1006–1013.

[ESEH14]   S. Elsayed, R. Sarker, D. Essam, and N. Hamza, "Testing united multi-operator evolutionary algorithms on the CEC2014 real-parameter numerical optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1650–1657.

[FAL+14]   C. W. Fong, H. Asmuni, W. S. Lam, B. McCollum, and P. McMullan, "A novel hybrid approach for curriculum based course timetabling problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 544–550.

[FCC14]   E. Fatnassi, O. Chebbi, and J. Chaouachi, "A bee colony algorithm for routing guided automated battery-operated electric vehicles in personal rapid transit systems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 536–543.

[FD14]   S. Farzan and G. DeSouza, "A parallel evolutionary solution for the inverse kinematics of generic robotic manipulators," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 358–365.

[FGG14]   D. Felipe, E. F. G. Goldbarg, and M. C. Goldbarg, "Scientific algorithms for the car renter salesman problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 873–879.

[Fie14]   J. Fieldsend, "Running up those hills: Multi-modal search with the niching migratory multi-swarm optimiser," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2593–2600.

[FJZ14]   W. Fu, M. Johnston, and M. Zhang, "Unsupervised learning for edge detection using genetic programming," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 117–124.

[FLS+14a]   G. Fogel, E. Liu, M. Salemi, S. Lamers, and M. McGrath, "Evolved neural networks for HIV-1 co-receptor identification," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2778–2784.

[FLS+14b]   H. Fu, P. Lewis, B. Sendhoff, K. Tang, and X. Yao, "What are dynamic optimization problems?" in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1550–1557.

[FM14]   T. Friedrich and S. Menzel, "A cascaded evolutionary multi-objective optimization for solving the unbiased universal electric motor family problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3184–3191.

[FTL14]   S. Feng, S. Tan, and J. Lu, "Characterizing the impact of selection on the evolution of cooperation in complex networks," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 813–818.

[GCFL14]   Y. Guo, M. Chen, H. Fu, and Y. Liu, "Find robust solutions over time by two-layer multi-objective optimization method," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1528–1535.

[GE14a]   R. Garden and A. Engelbrecht, "Analysis and classification of optimisation benchmark functions and benchmark suites," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1641–1649.

[GE14b]   K. S. Georgieva and A. P. Engelbrecht, "Cooperative DynDE for temporal data clustering," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 437–444.

[GEKY14]   J. Grobler, A. P. Engelbrecht, G. Kendall, and V. Yadavalli, "Heuristic space diversity management in a meta-hyper-heuristic framework," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1863–1869.

[GESA14]   G. Greenwood, S. Elsayed, R. Sarker, and H. Abbass, "Online generation of trajectories for autonomous vehicles using a multi-agent system," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1218–1224.

[GK14]   K. Glette and P. Kaufmann, "Lookup table partial reconfiguration for an evolvable hardware classifier system," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1706–1713.

[GLDG14]   S. Gao, Z. Liu, C. Dai, and X. Geng, "Application of BPSO with GA in model-based fault diagnosis of traction substation," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2063–2069.

[GPC14]   A. Gonzalez-Pardo and D. Camacho, "A new CSP graph-based representation to resource-constrained project scheduling problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 344–351.

[GPST14]   M. Gaudesi, E. Piccolo, G. Squillero, and A. Tonda, "TURAN: Evolving non-deterministic players for the iterated prisoner's dilemma," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 21–27.

[GS14]   J. Gu and X. Shi, "An adaptive PSO based on motivation mechanism and acceleration restraint operator," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1328–1336.

[GT14]   S. B. Gee and K. C. Tan, "Diversity preservation with hybrid recombination for evolutionary multiobjective optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1172–1178.

[GWL14]   C. Gao, T. Weise, and J. Li, "A weighting-based local search heuristic algorithm for the set covering problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 826–831.

[GYD14]   L. Gu, P. Yang, and Y. Dong, "A dynamic-weighted collaborative filtering approach to address sparsity and adaptivity issues," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3044–3050.

[Han14]   H. Handa, "Deep boltzmann machine for evolutionary agents of Mario AI," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 36–41.

[HB14]   S. Htiouech and S. Bouamama, "A Lagrangian and surrogate information enhanced tabu search for the MMKP," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1461–1468.

[HBX14]   Z. Hu, Y. Bao, and T. Xiong, "Partial opposition-based adaptive differential evolution algorithms: Evaluation on the CEC 2014 benchmark set for real-parameter optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2259–2265.

[HBZ14]   J. He, M. Boris, and Y. Zhou, "A theoretical assessment of solution quality in evolutionary algorithms for the knapsack problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 141–148.

[HC14]   T. He and K. C. Chan, "Evolutionary community detection in social networks," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1496–1503.

[HCGL14]   Y. Huo, Z. Cai, W. Gong, and Q. Liu, "A new adaptive kalman filter by combining evolutionary algorithm and fuzzy inference system," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2893–2900.

[HE14]   M. Helbig and A. Engelbrecht, "Heterogeneous dynamic vector evaluated particle swarm optimisation for dynamic multi-objective optimisation," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3151–3159.

[HJZ14]   R. Hunt, M. Johnston, and M. Zhang, "Evolving machine-specific dispatching rules for a two-machine job shop using genetic programming," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 618–625.

[HL14]   X.-B. Hu and M. S. Leeson, "Genetic algorithm with spatial receding horizon control for the optimization of facility locations," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 903–909.

[HLX$^+$14]   P. He, L. Lu, X. Xu, K. Li, H. Qian, and W. Zhang, "Confidence-based ant random walks," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1721–1728.

[HOBE14]   K. Harrison, B. Ombuki-Berman, and A. Engelbrecht, "Dynamic multi-objective optimization using charged vector evaluated particle swarm optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1929–1936.

[HP14]   S. Hui and N. S. Ponnuthurai, "Niching-based self-adaptive ensemble DE with MMTS for solving dynamic optimization problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1536–1541.

[HSE14]   N. Hamza, R. Sarker, and D. Essam, "Differential evolution with a constraint consensus mutation for solving optimization problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 991–997.

[HUM14]   M. Hardhienata, V. Ugrinovskii, and K. Merrick, "Task allocation under communication constraints using motivated particle swarm optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3135–3142.

[HWL14]   X.-B. Hu, M. Wang, and M. S. Leeson, "Calculating the complete Pareto front for a special class of continuous multi-objective optimization problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 290–297.

[HYZ14]   W. Hu, G. Yen, and X. Zhang, "Sensitivity analysis of parallel cell coordinate system in many-objective particle swarm optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2641–2648.

[IJR$^+$14]   Z. Ivan, L. Jouni, S. Roman, P. Michal, and D. Donald, "Evolutionary algorithms dynamics and its hidden complex network structures," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3246–3251.

[JDS14]   N. D. Jana, S. Das, and J. Sil, "Particle swarm optimization with population adaptation," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 573–578.

[JJA$^+$14]   T. Judeh, T. Jayyousi, L. Acharya, R. Reynolds, and D. Zhu, "GSCA: Reconstructing biological pathway topologies using a cultural algorithms approach," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2206–2213.

[JJdLN14]   A. Janecek, T. Jordan, and F. B. de Lima-Neto, "Swarm/evolutionary intelligence for agent-based social simulation," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2925–2932.

[JJM14]   T. Juan, A. Jose, and C. Mariela, "Cultural learning for multi-agent system and its application to fault management," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2188–2195.

[JWH$^+$14] Q. Jiang, L. Wang, X. Hei, R. Fei, D. Yang, F. Zou, H. Li, and Z. Cao, "Optimal approximation of stable linear systems with a novel and efficient optimization algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 840–844.

[JY14a]   C. Jariyatantiwait and G. Yen, "Fuzzy multiobjective differential evolution using performance metrics feedback," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1959–1966.

[JY14b]   S. Jiang and S. Yang, "An improved quantum-behaved particle swarm optimization based on linear interpolation," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 769–775.

[JY14c]   N. Jin and X. Yao, "Heuristic optimization for software project management with impacts of team efficiency," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3016–3023.

[JYH$^+$14] Y. Jiang, Z. Yang, Z. Hao, Y. Wang, and H. He, "A cooperative honey bee mating algorithm and its application in multi-threshold image segmentation," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1579–1585.

[KAA14]   A. Ksibi, A. B. Ammar, and C. B. Amar, "Enhancing relevance re-ranking using nature-inspired meta-heuristic optimization algorithms," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1435–1442.

[KBJdS14]   E. Kaszkurewicz, A. Bhaya, J. Jayadeva, and J. M. M. da Silva, "The coupled EigenAnt algorithm for shortest path problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1729–1735.

[KBJH14]   L. Ki-Baek and K. Jong-Hwan, "DMOPSO: Dual multi-objective particle swarm optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3096–3102.

[Ke14a]   L. Ke, "A cooperative approach between metaheuristic and branch-and-price for the team orienteering problem with time windows," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1878–1882.

[KE14b]   R. Klazar and A. Engelbrecht, "Parameter optimization by means of statistical quality guides in F-Race," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2547–2552.

[KJXZ14]   F. Kuang, Z. Jin, W. Xu, and S. Zhang, "A novel chaotic artificial bee colony algorithm based on tent map," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 235–241.

[KKOM14]   A. Kattan, M. Kampouridis, Y.-S. Ong, and K. Mehamdi, "Transformation of input space using statistical moments: EA-based approach," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2499–2506.

[KLQ14a]   B. Kazimipour, X. Li, and A. Qin, "Effects of population initialization on differential evolution for large scale optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2404–2411.

[KLQ14b]   ——, "A review of population initialization techniques for evolutionary algorithms," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2585–2592.

[KM14]   M. R. Karim and M. Mouhoub, "Coevolutionary genetic algorithm for variable ordering in CSPs," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2716–2723.

[KMS14]   T. Krityakierne, J. Mueller, and C. Shoemaker, "SO-MODS: Optimization for high dimensional computationally expensive multi-modal functions with surrogate search," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1092–1099.

[KN14]   T. Kren and R. Neruda, "Generating lambda term individuals in typed genetic programming using forgetful A*," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1847–1854.

[KOLQ14]   B. Kazimipour, M. N. Omidvar, X. Li, and A. Qin, "A novel hybridization of opposition-based learning and cooperative co-evolutionary for large-scale optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2833–2840.

[KTBB14]   D. Kizilay, M. F. Tasgetiren, O. Bulut, and B. Bostan, "A discrete artificial bee colony algorithm for the parallel machine scheduling problem in DYO painting company," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 653–660.

[KTG⁺14]   B. Krawczyk, I. Triguero, S. Garcia, M. Wozniak, and F. Herrera, "A first attempt on evolutionary prototype reduction for nearest neighbor one-class classification," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 747–753.

[KZS14]   P. Kromer, I. Zelinka, and V. Snasel, "Can deterministic chaos improve differential evolution for the linear ordering problem?" in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1443–1448.

[KZW+14]   L. Kuang, Z. Zhao, F. Wang, Y. Li, F. Yu, and Z. Li, "A differential evolution box-covering algorithm for fractal dimension on complex networks," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 693–699.

[LCCFL14]   R. Lara-Cabrera, C. Cotta, and A. J. Fernandez-Leiva, "A self-adaptive evolutionary approach to the evolution of aesthetic maps for a RTS game," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 298–304.

[LCG14]   B. Li, R. Chiong, and L. Gong, "Search-evasion path planning for submarines using the artificial bee colony algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 528–535.

[LCN14]   Y.-C. Liang, H.-L. Chen, and Y.-H. Nien, "Artificial bee colony for workflow scheduling," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 558–564.

[LCT14]   X.-L. Liao, C.-H. Chien, and C.-K. Ting, "A genetic algorithm for the minimum latency pickup and delivery problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3272–3279.

[LCZ+14]   B. Liu, Q. Chen, Q. Zhang, G. Gielen, and V. Grout, "Behavioral study of the surrogate model-aware evolutionary search framework," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 715–722.

[LgCW14]   J. Liu, B. gen Cai, and J. Wang, "Particle swarm optimization for integrity monitoring in BDS/DR based railway train positioning," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 792–797.

[LH14]   P.-M. Lee and T.-C. Hsiao, "Applying LCS to affective images classification in spatial-frequency domain," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1690–1697.

[LHFC+14]   R. E. Lopez-Herrejon, J. Ferrer, F. Chicano, A. Egyed, and E. Alba, "Comparative analysis of classical multi-objective evolutionary algorithms and seeding strategies for pairwise testing of software product lines," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 387–396.

[LHH14a]   X. Li, W. He, and K. Hirasawa, "Adaptive genetic network programming," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1808–1815.

[LHH14b]   ——, "Creating stock trading rules using graph-based estimation of distribution algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 731–738.

[LHH14c]   ——, "Generalized classifier system: Evolving classifiers with cyclic conditions," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1682–1689.

[LHH14d]   ——, "Learning and evolution of genetic network programming with knowledge transfer," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 798–805.

[LHH14e]   J. Liu, Y. He, and Y. Hu, "Regression ensemble with PSO algorithms based fuzzy integral," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 762–768.

[LHH14f]   Y. Luo, S. Huang, and J. Hu, "A niching two-layered differential evolution with self-adaptive control parameters," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1405–1412.

[LJW$^+$14]   M. Li, T. Ji, P. Wu, S. He, and Q. Wu, "Protein folding estimation using paired-bacteria optimizer," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2027–2032.

[LK14]   F. Lauri and A. Koukam, "Hybrid ACO/EA algorithms applied to the multi-agent patrolling problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 250–257.

[LL14a]   C. Liu and B. Li, "Memetic algorithm with adaptive local search depth for large scale global optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 82–88.

[LL14b]   W.-Y. Liu and C.-C. Lin, "A cultural algorithm for spatial forest harvest scheduling," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1273–1276.

[LLP14]   V. Lattarulo, B. A. Lindley, and G. T. Parks, "Application of the MOAA for the optimization of CORAIL assemblies for nuclear reactors," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1413–1420.

[LLTY14]   B. Li, J. Li, K. Tang, and X. Yao, "An improved two archive algorithm for many-objective optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2869–2876.

[LLZL14]   G. Lee, M. Luo, F. Zambetta, and X. Li, "Learning a Super Mario controller from examples of human play," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1–8.

[LM14]   S.-M. Lee and H. Myung, "A cooperative coevolutionary approach to multi-robot formation control," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1225–1231.

[LMY14]   L. Lin, G. Mitsuo, and L. Yan, "A hybrid EA for high-dimensional subspace clustering problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2855–2860.

[LNCL14]   M. F. Leung, S. C. Ng, C. C. Cheung, and A. K. Lui, "A new strategy for finding good local guides in MOPSO," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1990–1997.

[LNJ14]   R. Liu, X. Niu, and L. Jiao, "A multi-swarm particle swarm optimization with orthogonal learning for locating and tracking multiple optima in dynamic environments," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 754–761.

[LO14]   M. Li and C. O'Riordan, "Graph centrality measures and the robustness of cooperation," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1232–1237.

[Lot14]   M. Lotif, "Visualizing the population of meta-heuristics during the optimization process using self-organizing maps," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 313–319.

[LQSS14]   J. J. Liang, B. Y. Qu, H. Song, and Z. G. Shang, "Memetic differential evolution based on fitness Euclidean-distance ratio," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2266–2273.

[LSCS14]   V. Leite, C. Silva, J. Claro, and J. M. C. Sousa, "Optimization of power flow with energy storage using genetic algorithms," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2678–2684.

[LSLN14]   S. H. Ling, P. P. San, H. K. Lam, and H. Nguyen, "Non-invasive detection of hypoglycemic episodes in type1 diabetes using intelligent hybrid rough neural system," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1238–1242.

[LSLQ14a]   Z. Li, Z. Shang, J. J. Liang, and B. Y. Qu, "Differential evolution strategy based on the constraint of fitness values classification," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1454–1460.

[LSLQ14b]   ——, "Feature selection based on manifold-learning with dynamic constraint-handling differential evolution," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 332–337.

[LSO14]   C. Luo, K. Shimoyama, and S. Obayashi, "Kriging model based many-objective optimization with efficient calculation of expected hypervolume improvement," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1187–1194.

[LSR14a]   M. Liu, H. Singh, and T. Ray, "A benchmark generator for dynamic capacitated arc routing problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 579–586.

[LSR14b]   ——, "A memetic algorithm with a new split scheme for solving dynamic capacitated arc routing problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 595–602.

[LSZJ14]   T. Liu, C. Sun, J. Zeng, and Y. Jin, "Similarity- and reliability-assisted fitness estimation for particle swarm optimization of expensive problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 640–646.

[LTJZ14]   Y. Li, X. Tian, L. Jiao, and X. Zhang, "Biclustering of gene expression data using particle swarm optimization integrated with pattern-driven local search," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1367–1373.

[LWLT14]   K. Lin, X. Wang, X. Li, and Y. Tan, "Self-adaptive morphable model based multi-view non-cooperative 3D face reconstruction," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 320–325.

[LWW+14a]   H. Liu, Z. Wu, H. Wang, S. Rahnamayan, and C. Deng, "Improved differential evolution with adaptive opposition strategy," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1776–1783.

[LWW⁺14b]   W. Low, J. D. Weerdt, M. Wynn, A. ter Hofstede, W. van der Aalst, and S. vanden Broucke, "Perturbing event logs to identify cost reduction opportunities: A genetic algorithm-based approach," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2428–2435.

[LYL14]   M. Li, S. Yang, and X. Liu, "A test problem for visual investigation of high-dimensional multi-objective search," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2140–2147.

[LZ14]   J. Li and J. Zhang, "Using estimation of distribution algorithm to coordinate decentralized learning automata for meta-task scheduling," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2077–2084.

[LZD14]   H. Li, Q. Zhang, and J. Deng, "Multiobjective test problems with complicated Pareto fronts: Difficulties in degeneracy," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2156–2163.

[LZL14]   F. Li, Y. Zhang, and H. Li, "Quantum bacterial foraging optimization algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1265–1272.

[LZQS14]   J. J. Liang, B. Zheng, B. Y. Qu, and H. Song, "Multi-objective differential evolution algorithm based on fast sorting and a novel constraints handling technique," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 445–450.

[LZT14a]   J. Li, S. Zheng, and Y. Tan, "Adaptive fireworks algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3214–3221.

[LZT14b]   J. Liu, S. Zheng, and Y. Tan, "Analysis on global convergence and time complexity of fireworks algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3207–3213.

[LZW⁺14]   M. Liu, J. Zheng, J. Wang, Y. Liu, and L. Jiang, "An adaptive diversity introduction method for dynamic evolutionary multiobjective optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3160–3167.

[LZWY14a]   Z. Li, J. Zhang, W. Wang, and J. Yao, "Dimensions cooperate by Euclidean metric in particle swarm optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1359–1366.

[LZWY14b]   H. Liu, J. Zhou, X. Wu, and P. Yuan, "Optimization algorithm for rectangle packing problem based on varied-factor genetic algorithm and lowest front-line strategy," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 352–357.

[LZZ14a]   Y. Li, A. Zhou, and G. Zhang, "An MOEA/D with multiple differential evolution mutation operators," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 397–404.

[LZZ14b]   Q. Liao, A. Zhou, and G. Zhang, "A locally weighted metamodel for pre-selection in evolutionary optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2483–2490.

[MA14]   A. Moshaiov and O. Abramovich, "Is MO-CMA-ES superior to NSGA-II for the evolution of multi-objective neuro-controllers?" in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2809–2816.

[MBB14]   F. Manfrini, H. Barbosa, and H. Bernadino, "Optimization of combinational logic circuits through decomposition of truth table and evolution of sub-circuits," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 945–950.

[MBC14]   H. D. Menendez, D. F. Barrero, and D. Camacho, "A co-evolutionary multi-objective approach for a k-adaptive graph-based clustering algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2724–2731.

[MC14]   S. Z. Martinez and C. A. C. Coello, "A multi-objective evolutionary algorithm based on decomposition for constrained multi-objective optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 429–436.

[mCG14]   Y. ming Cheung and F. Gu, "Online objective reduction for many-objective optimization problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1165–1171.

[MCGF14]   J. Montgomery, S. Chen, and Y. Gonzalez-Fernandez, "Identifying and exploiting the scale of a search space in differential evolution," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1427–1434.

[MCP14a]   A. Madureira, B. Cunha, and I. Pereira, "Cooperation mechanism for distributed resource scheduling through artificial bee colony based self-organized scheduling system," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 565–572.

[MCP14b]   O. Matei, D. Contras, and P. Pop, "Applying evolutionary computation for evolving ontologies," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1520–1527.

[MD14]   M. Metlicka and D. Davendra, "Chaos-driven discrete artificial bee colony," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2947–2954.

[MDAS14]   I. Mauser, M. Dorscheid, F. Allerding, and H. Schmeck, "Encodings for evolutionary algorithms in smart buildings with energy management systems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2361–2366.

[MdCC14]   R. Maia, L. de Castro, and W. Caminhas, "Real-parameter optimization with OptBees," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2649–2655.

[ME14]   K. Malan and A. Engelbrecht, "A progressive random walk algorithm for sampling continuous fitness landscapes," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2507–2514.

[MGG14]   M. Menezes, M. Goldbarg, and E. Goldbarg, "A memetic algorithm for the prize collecting traveling car renter problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3258–3265.

[MLH14]   D. Molina, B. Lacroix, and F. Herrera, "Influence of regions on the memetic algorithm for the special session on real-parameter single objetive optimisation," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1633–1640.

[MLWJ14]   J. Ma, Y. Lei, Z. Wang, and L. Jiao, "A memetic algorithm based on immune multi-objective optimization for flexible job-shop scheduling problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 58–65.

[MLY14]   Y. Mei, X. Li, and X. Yao, "Variable neighborhood decomposition for large scale capacitated arc routing problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1313–1320.

[MMC14]   A. Menchaca-Mendez and C. A. C. Coello, "MD-MOEA : A new MOEA based on the maximin fitness function and Euclidean distances between solutions," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2148–2155.

[MMZ14]   L. Marchetti, V. Manca, and I. Zelinka, "On the inference of deterministic chaos: Evolutionary algorithm and metabolic P system approaches," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1483–1489.

[MND+14]   L. Martins, R. Nobre, A. Delbem, E. Marques, and J. Cardoso, "A clustering-based approach for exploring sequences of compiler optimizations," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2436–2443.

[MNI14]   H. Masuda, Y. Nojima, and H. Ishibuchi, "Visual examination of the behavior of EMO algorithms for many-objective optimization with many decision variables," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2633–2640.

[MNM14]   E. D. Mario, I. Navarro, and A. Martinoli, "Analysis of fitness noise in particle swarm optimization: From robotic learning to benchmark functions," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2785–2792.

[MOLD14]   A. Mohammadi, M. N. Omidvar, X. Li, and K. Deb, "Integrating user preferences and decomposition methods for many-objective optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 421–428.

[MPC14]   H. D. Menendez, L. Plaza, and D. Camacho, "Combining graph connectivity and genetic clustering to improve biomedical summarization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2740–2747.

[MS14a]   M. Mayo and Q. Sun, "Evolving artificial datasets to improve interpretable classifiers," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2367–2374.

[MS14b]   A. McNabb and K. Seppi, "Serial PSO results are irrelevant in a multi-core parallel world," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3143–3150.

[MSR14]   S. Mahdavi, M. E. Shiri, and S. Rahnamayan, "Cooperative co-evolution with a new decomposition method for large-scale optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1285–1292.

[MT14]   A. Moshaiov and A. Tal, "Family bootstrapping: A genetic transfer learning approach for onsetting the evolution for a set of related robotic tasks," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2801–2808.

[MV14a]   L. Masi and M. Vasile, "A multidirectional Physarum solver for the automated design of space trajectories," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2992–2999.

[MV14b]   E. Minisci and M. Vasile, "Adaptive inflationary differential evolution," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1792–1799.

[MVJ14]   E. Mesa, J. D. Velasquez, and P. Jaramillo, "A new self-adaptive PSO based on the identification of planar regions," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1937–1943.

[MWLN14]   R. Mallipeddi, G. Wu, M. Lee, and S. P. Nagaratnam, "Gaussian adaptation based parameter adaptation for differential evolution," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1760–1767.

[MXLJ14]   C. Mu, J. Xie, R. Liu, and L. Jiao, "A memetic algorithm using local structural information for detecting community structure in complex networks," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 680–686.

[MY14a]   M. Mavrovouniotis and S. Yang, "Elitism-based immigrants for ant colony optimization in dynamic environments: Adapting the replacement rate," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1752–1759.

[MY14b]   ——, "Interactive and non-interactive hybrid immigrants schemes for ant algorithms in dynamic environments," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1542–1549.

[MZJ14]   C. Mu, J. Zhang, and L. Jiao, "An intelligent ant colony optimization for community detection in complex networks," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 700–706.

[MZWY14]   J. Ma, J. Zhang, W. Wang, and J. Yao, "Phase transition particle swarm optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2531–2538.

[MZZ14a]   A. Ma, Y. Zhong, and L. Zhang, "Remote sensing imagery clustering using an adaptive bi-objective memetic method," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 50–57.

[MZZ+14b]   W. Ma, Y. Zuo, J. Zeng, S. Liang, and L. Jiao, "A memetic algorithm for solving flexible job-shop scheduling problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 66–73.

[NB14]   B. Niu and Y. Bi, "Binary bacterial foraging optimization for solving 0/1 knapsack problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 647–652.

[NBH14]   S. S. Naqvi, W. N. Browne, and C. Hollitt, "Genetic algorithms based feature combination for salient object detection, for autonomously identified image domain types," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 109–116.

[NCC+14]   M. S. Nobile, A. G. Citrolo, P. Cazzaniga, D. Besozzi, and G. Mauri, "A memetic hybrid method for the molecular distance geometry problem with incomplete information," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1014–1021.

[NCY14]   Q. Ni, C. Cao, and X. Yin, "A new dynamic probabilistic particle swarm optimization with dynamic random population topology," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1321–1327.

[NI14]   M. Nishiyama and H. Iba, "Applying conversion matrix to robots for imitating motion using genetic algorithms," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 938–944.

[NLT+14]   T. T. Nguyen, A. W.-C. Liew, M. T. Tran, X. C. Pham, and M. P. Nguyen, "A novel genetic algorithm approach for simultaneous feature and classifier selection in multi classifier system," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1698–1705.

[NNT14]   T. Nguyen, K. Nguyen, and R. Thawonmas, "Integrating fuzzy integral and heuristic search for unit micromanagement in RTS games," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 9–12.

[NXDT14]   B. Niu, T. Xie, Q. Duan, and L. Tan, "Particle swarm optimization for integrated yard truck scheduling and storage allocation problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 634–639.

[NXLZ14]   B. H. Nguyen, B. Xue, I. Liu, and M. Zhang, "Filter based backward elimination in wrapper based PSO for feature selection in classification," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3111–3118.

[NZJ14]   S. Nguyen, M. Zhang, and M. Johnston, "A sequential genetic programming method to learn forward construction heuristics for order acceptance and scheduling," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1824–1831.

[OJ14]   H. Oh and Y. Jin, "Evolving hierarchical gene regulatory networks for morphogenetic pattern formation of swarm robotics," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 776–783.

[OML14]   M. N. Omidvar, Y. Mei, and X. Li, "Effective decomposition of large-scale separable continuous functions for cooperative co-evolutionary algorithms," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1305–1312.

[ONA14]   M. O'Neill, M. Nicolau, and A. Agapitos, "Experiments in program synthesis with grammatical evolution: A focus on integer sorting," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1504–1511.

[Pan14]   M. Pandiyan, "Soft computing techniques based optimal tuning of virtual feedback PID controller for chemical tank reactor," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1922–1928.

[PAR14a]   D. Poole, C. Allen, and T. Rendall, "Analysis of constraint handling methods for the gravitational search algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2005–2012.

[PAR14b]   ——, "Constraint handling in agent-based optimization by independent sub-swarms," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 998–1005.

[Pat14]   A. Pat, "Ant colony optimization and hypergraph covering problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1714–1720.

[PC14a]   W. Pang and G. Coghill, "An immune network approach to learning qualitative models of biological pathways," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1030–1037.

[PC14b]   P. Pop and C. Chira, "A hybrid approach based on genetic algorithms for solving the clustered vehicle routing problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1421–1426.

[PCJSR14]   L. M. L. Pascoal, C. G. Camilo-Junior, E. Q. Silva, and T. C. Rosa, "A social-evolutionary approach to compose a similarity function used on event recommendation," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1512–1519.

[PDM+14]   R. C. Purshouse, K. Deb, M. M. Mansor, S. Mostaghim, and R. Wang, "A review of hybrid evolutionary multiple criteria decision making methods," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1147–1154.

[PdPG14]   C. Pretorius, M. du Plessis, and J. Gonsalves, "A comparison of neural networks and physics models as motion simulators for simple robotic evolution," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2793–2800.

[Pet14]   L. Peterson, "Evolutionary algorithms applied to likelihood function maximization during Poisson, logistic, and Cox proportional hazards regression analysis," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1054–1061.

[Pla14]   V. Plagianakos, "Unsupervised clustering and multi-optima evolutionary search," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2383–2390.

[PLL14]   X. Peng, X. Lei, and K. Liu, "Compensate information from multimodal dynamic landscapes: An anti-pathology cooperative coevolutionary algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2578–2584.

[PN14a]   M. Pilat and R. Neruda, "The effect of different local search algorithms on the performance of multi-objective optimizers," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2172–2179.

[PN14b]   S. Poursoltan and F. Neumann, "A feature-based analysis on the impact of linear constraints for e-constrained differential evolution," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3088–3095.

[PPW⁺14]   D. Perez, E. Powley, D. Whitehouse, S. Samothrakis, S. Lucas, and P. Cowling, "The 2013 multi-objective physical travelling salesman problem competition," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2314–2321.

[PRM14]   P. Philippe, M. Remi, and V. Michal, "Bandits attack function optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2245–2252.

[PRN14]   M. Pereira, M. Roisenberg, and G. Neto, "A topological niching covariance matrix adaptation for multimodal optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2562–2569.

[PTB14]   R. Polakova, J. Tvrdik, and P. Bujok, "Controlled restart in differential evolution applied to CEC2014 benchmark functions," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2230–2236.

[PZZ14]   Z. Peng, J. Zheng, and J. Zou, "A population diversity maintaining strategy based on dynamic environment evolutionary model for dynamic multiobjective optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 274–281.

[QHGW14]   X. Qian, M. Huang, T. Gao, and X. Wang, "An improved ant colony algorithm for winner determination in multi-attribute combinatorial reverse auction," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1917–1921.

[QTPX14]   A. K. Qin, K. Tang, H. Pan, and S. Xia, "Self-adaptive differential evolution with local search chains for real-parameter single-objective optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 467–474.

[QXT14]   X. Qiu, J. Xu, and K. C. Tan, "A novel differential evolution (DE) algorithm for multi-objective optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2391–2396.

[R.14]   R. B. R., "Lion algorithm for standard and large scale bilinear system identification: A global optimization based on lion's social behavior," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2116–2123.

[RAG14]   J. Reps, U. Aickelin, and J. Garibaldi, "Tuning a multiple classifier system for side effect discovery using genetic algorithms," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 910–917.

[RB14]   T. Runkler and J. Bezdek, "Multidimensional scaling with multiswarming," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2940–2946.

[rBM14]   M. reza Bonyadi and Z. Michalewicz, "On the edge of feasibility: A case study of the particle swarm optimizer," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3059–3066.

[RGMZ14]   M. Ruello, F. Grimaccia, M. Mussetta, and R. E. Zich, "Black-hole PSO and SNO for electromagnetic optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1912–1916.

[Ric14]   H. Richter, "Codynamic fitness landscapes of coevolutionary minimal substrates," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2692–2699.

[RJB$^+$14]   S. Rahnamayan, J. Jesuthasan, F. Bourennani, H. Salehinejad, and G. F. Naterer, "Computing opposition by involving entire population," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1800–1807.

[RKN14]   P. Rakshit, A. Konar, and A. Nagar, "Artificial bee colony induced multi-objective optimization in presence of noise," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3176–3183.

[RME14]   S. Reid, K. Malan, and A. Engelbrecht, "Carry trade portfolio optimization using particle swarm optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3051–3058.

[RPEC$^+$14]   A. Rosales-Perez, H. J. Escalante, C. A. C. Coello, J. A. Gonzalez, and C. A. Reyes-Garcia, "An evolutionary multi-objective approach for prototype generation," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1100–1107.

[RSEC14]   H. F. Rahman, R. Sarker, D. Essam, and G. Chang, "A memetic algorithm for solving permutation flow shop problems with known and unknown machine breakdowns," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 42–49.

[SAAR14]   J. L. Soncco-Alvarez and M. Ayala-Rincon, "Memetic algorithm for sorting unsigned permutations by reversals," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2770–2777.

[SAFJ14]   H. Shao, R. Abielmona, R. Falcon, and N. Japkowicz, "Vessel track correlation and association using fuzzy logic and echo state networks," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2322–2329.

[SAR14]   H. Singh, M. Asafuddoula, and T. Ray, "Solving problems with a mix of hard and soft constraints using modified infeasibility driven evolutionary algorithm (IDEA-M)," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 983–990.

[SCFD14]   P. Singh, I. Couckuyt, F. Ferranti, and T. Dhaene, "A constrained multi-objective surrogate-based optimization algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3080–3087.

[SCJPR14]   E. Q. Silva, C. G. Camilo-Junior, L. M. L. Pascoal, and T. C. Rosa, "An evolutionary approach for combining results of recommender systems techniques based on collaborative filtering," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 959–966.

[SCP$^+$14]   N. Sephton, P. Cowling, E. Powley, D. Whitehouse, and N. Slaven, "Parallelization of information set Monte Carlo tree search," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2290–2297.

[SCSL14]   C. Segura, C. A. C. Coello, E. Segredo, and C. Leon, "An analysis of the automatic adaptation of the crossover rate in differential evolution," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 459–466.

[SCSU14]   S. Scardapane, D. Comminiello, M. Scarpiniti, and A. Uncini, "GP-based kernel evolution for L2-regularization networks," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1674–1681.

[SCWCTJ14]   W. Shang-Chia, Y. Wei-Chang, and Y. Tso-Jung, "Pareto simplified swarm optimization for grid-computing reliability and service makspan in grid-RMS," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1593–1600.

[SDJ14]   C. Smith, J. Doherty, and Y. Jin, "Multi-objective evolutionary recurrent neural network ensemble for prediction of computational fluid dynamic simulations," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2609–2616.

[SE14]   C. Scheepers and A. Engelbrecht, "Competitive coevolutionary training of simple soccer agents from zero knowledge," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1210–1217.

[SESE14]   E. Sayed, D. Essam, R. Sarker, and S. Elsayed, "A decomposition-based algorithm for dynamic economic dispatch problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1898–1905.

[SGG14]   T. Souza, E. Goldbarg, and M. Goldbarg, "An experimental analysis of evolutionary algorithms for the three-objective oil derivatives distribution problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1982–1989.

[SGHR14]   D. Smullen, J. Gillett, J. Heron, and S. Rahnamayan, "Genetic algorithm with self-adaptive mutation controlled by chromosome similarity," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 504–511.

[SIR14]   H. Singh, A. Isaacs, and T. Ray, "A hybrid surrogate based algorithm (HSBA) to solve computationally expensive optimization problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1069–1075.

[SJYZ14]   X. Song, J. Ji, C. Yang, and X. Zhang, "Ant colony clustering based on sampling for community detection," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 687–692.

[SK14a]   N. R. Sabar and G. Kendall, "Aircraft landing problem using hybrid differential evolution and simple descent algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 520–527.

[SK14b]   ——, "Using harmony search with multiple pitch adjustment operators for the portfolio selection problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 499–503.

[SKDN14]   G. Schaefer, B. Krawczyk, N. Doshi, and T. Nakashima, "Cost-sensitive texture classification," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 105–108.

[SM14]   M. Schlueter and M. Munetomo, "Parallelization for space trajectory optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 832–839.

[SMD14]   A. Sinha, P. Malo, and K. Deb, "An improved bilevel evolutionary algorithm based on quadratic approximations," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1870–1877.

[SNI14]   T. Sudo, Y. Nojima, and H. Ishibuchi, "Effects of ensemble action selection on the evolution of iterated prisoner's dilemma game strategies," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1195–1201.

[SPB14]   L. Souza, R. Prudencio, and F. Barros, "A comparison study of binary multi-objective particle swarm optimization approaches for test case selection," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2164–2171.

[SPL14]   D. L. St-Pierre and J. Liu, "Differential evolution algorithm applied to non-stationary bandit problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2397–2403.

[SPV14]   L. Sekanina, O. Ptak, and Z. Vasicek, "Cartesian genetic programming as local optimizer of logic networks," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2901–2908.

[SPW14a]   Z. Shi, Y. Peng, and W. Wei, "Optimal sizing of DGs and storage for microgrid with interruptible load using improved NSGA-II," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2108–2115.

[SPW14b]   S. Stanley, T. Palazzolo, and D. Warnke, "Analyzing prehistoric hunter behavior with cultural algorithms," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2196–2205.

[SRIM14]   S. K. K. Santu, M. M. Rahman, M. M. Islam, and K. Murase, "Towards better generalization in Pittsburgh learning classifier systems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1666–1673.

[SRT14a]   H. Salehinejad, S. Rahnamayan, and H. R. Tizhoosh, "Micro-differential evolution with vectorized random mutation factor," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2055–2062.

[SRT14b]   ——, "Toward using type-II opposition in optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1768–1775.

[SSL14]   E. Segredo, C. Segura, and C. Leon, "Control of numeric and symbolic parameters with a hybrid scheme based on fuzzy logic and hyper-heuristics," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1890–1897.

[SSZ$^+$14]   C. Si, J. Shen, X. Zou, L. Wang, and Q. Wu, "Mapping constrained optimization problems to penalty parameters: An empirical study," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3073–3079.

[STKS14]   M. Suzuki, S. Tsuruta, R. Knauf, and Y. Sakurai, "Knowledge acquisition issues for intelligent route optimization by evolutionary computation," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3252–3257.

[SWG14]   L. Shuai, Z. Wang, and T. Gong, "Simulating the coevolution of language and long-term memory," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1374–1381.

[SY14]   Y.-E. Su and T.-L. Yu, "Use model building on discretization algorithms for discrete EDAs to work on real-valued problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2491–2498.

[SYO14]   H. Shan, T. Yasuda, and K. Ohkura, "A Levy flight-based hybrid artificial bee colony algorithm for solving numerical optimization problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2656–2663.

[SZJ14]   R. Shang, K. Zhang, and L. Jiao, "A novel algorithm for many-objective dimension reductions: Pareto-PCA-NSGA-II," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1974–1981.

[TA14a]   J. Tang and H. A. Abbass, "Behavioral learning of aircraft landing sequencing using a society of probabilistic finite state machines," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 610–617.

[TA14b]   A. Turky and S. Abdullah, "Using electromagnetic algorithm for tuning the structure and parameters of neural networks," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 326–331.

[TC14]   J. A. Thompson and C. B. Congdon, "GAMI-CRM: Using de novo motif inference to detect cis-regulatory modules," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1022–1029.

[TCpC14a]   P.-C. Tsai, C.-M. Chen, and Y. ping Chen, "A novel evaluation function for LT codes degree distribution optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3030–3035.

[TCpC14b]   ——, "PSO-based evacuation simulation framework," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1944–1950.

[TF14]   R. Tanabe and A. Fukunaga, "Improving the search performance of SHADE using linear population size reduction," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1658–1665.

[TMY14]   H.-Y. Tung, W.-C. Ma, and T.-L. Yu, "Novel traffic signal timing adjustment strategy based on genetic algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2353–2360.

[TPB+14]   I. Triguero, D. Peralta, J. Bacardit, S. Garcia, and F. Herrera, "A combined MapReduce-windowing two-level parallel scheme for evolutionary prototype generation," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3036–3043.

[Tsa14]   J. Tsang, "The structure of a probabilistic 2-state finite transducer representation for prisoner's dilemma," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1202–1209.

[TVX+14]   B. H. T. Thanh, L. T. Van, H. N. Xuan, A. N. Duc, and T. P. Manh, "Reordering dimensions for radial visualization of multidimensional data - a genetic algorithms approach," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 951–958.

[TY14]   K. Tamura and K. Yasuda, "Primary study on feedback controlled differential evolution," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 371–378.

[vBVB14]   S. vanden Broucke, J. Vanthienen, and B. Baesens, "Declarative process discovery with evolutionary computing," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2412–2419.

[VCO+14]   G. Varela, P. Caamano, F. Orjales, A. Deibe, F. Lopez-Pena, and R. Duro, "Differential evolution in constrained sampling problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2375–2382.

[VMMK+14]   A. Valsecchi, P. Mesejo, L. Marrakchi-Kacem, S. Cagnoni, and S. Damas, "Automatic evolutionary medical image segmentation using deformable models," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 97–104.

[VTNBW14]   F. Vafaee, G. Turan, P. Nelson, and T. Berger-Wolf, "Balancing the exploration and exploitation in an adaptive diversity guided genetic algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2570–2577.

[VVSH14]   J. Viegas, S. Vieira, J. Sousa, and E. Henriques, "Metaheuristics for the 3D bin packing problem in the steel industry," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 338–343.

[Wag14]   M. Wagner, "Maximising axiomatization coverage and minimizing regression testing time," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2885–2892.

[WCF14]   C.-W. Wu, T.-C. Chiang, and L.-C. Fu, "An ant colony optimization algorithm for multi-objective clustering in mobile ad hoc networks," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2963–2968.

[WCK14]   S. Watanabe, Y. Chiba, and M. Kanazaki, "A proposal on analysis support system based on association rule analysis for non-dominated solutions," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 880–887.

[WCR+14]   M. Weiszer, J. Chen, S. Ravizza, J. Atkin, and P. Stewart, "A heuristic approach to greener airport ground movement," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3280–3286.

[WD14a]   K. Wei and M. J. Dinneen, "Hybridizing the dynamic mutation approach with local searches to overcome local optima," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 74–81.

[WD14b] ——, "Runtime comparison of two fitness functions on a memetic algorithm for the clique problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 133–140.

[WFG14] S. Wesolkowski, N. Francetic, and S. Grant, "TraDE: Training device selection via multi-objective optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2617–2624.

[WGC⁺14] Z. Wang, M. Gong, Q. Cai, L. Ma, and L. Jiao, "Deployment optimization of near space airships based on MOEA/D with local search," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2345–2352.

[WGM⁺14] S. Wang, M. Gong, L. Ma, Q. Cai, and L. Jiao, "Decomposition based multiobjective evolutionary algorithm for collaborative filtering recommender systems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 672–679.

[WGN14] S. Wang, J. Gain, and G. Nitschke, "Comparing crossover operators in neuro-evolution with crowd simulations," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2298–2305.

[WGZ14] F. Wang, Y. Gao, and Z. Zhu, "Locality-sensitive hashing based multiobjective memetic algorithm for dynamic pickup and delivery problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 661–666.

[WK14] Z. Wu and M. Kolonko, "Absorption in model-based search algorithms for combinatorial optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1744–1751.

[WKL⁺14] M. Wu, A. Karkar, B. Liu, A. Yakovlev, and G. Gielen, "Network on chip optimization based on surrogate model assisted evolutionary algorithms," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3266–3271.

[WL14] S.-Y. Wu and J.-S. Liu, "Evolutionary path planning of a data mule in wireless sensor network by using shortcuts," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2708–2715.

[WLG⁺14] Q. Wang, H. Li, M. Gong, L. Su, and L. Jiao, "A multiobjective optimization method based on MOEA/D and fuzzy clustering for change detection in SAR images," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3024–3029.

[WLJM14] X. Wang, X. Liu, N. Japkowicz, and S. Matwin, "Automatic target recognition using multiple-aspect sonar images," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2330–2337.

[WLT14] C.-L. Wu, C.-H. Liu, and C.-K. Ting, "A novel genetic algorithm considering measures and phrases for generating melody," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2101–2107.

[WLWL14] P.-K. Wong, L.-Y. Lo, M.-L. Wong, and K.-S. Leung, "Grammar based genetic programming with Bayesian network," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 739–746.

[WN14]   M. Wagner and F. Neumann, "Single- and multi-objective genetic programming: New runtime results for SORTING," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 125–132.

[WTJ+14]   T. Watanabe, T. Tatsukawa, A. L. Jaimes, H. Aono, T. Nonomura, A. Oyama, and K. Fujii, "Many-objective evolutionary computation for optimization of separated-flow control using a DBD plasma actuator," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2849–2854.

[WTY14]   S.-M. Wang, Y.-F. Tung, and T.-L. Yu, "Investigation on efficiency of optimal mixing on various linkage sets," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2475–2482.

[WWTY14]   T. Weise, M. Wan, K. Tang, and X. Yao, "Evolving exact integer algorithms with genetic programming," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1816–1823.

[WWZ14]   F. Wei, Y. Wang, and T. Zong, "Variable grouping based differential evolution using an auxiliary function for large scale global optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1293–1298.

[WXY14]   B. Wang, H. Xu, and Y. Yuan, "Quantum-inspired evolutionary algorithm with linkage learning," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2467–2474.

[WY14]   Y. Wang and J. Yin, "Intelligent search optimized edge potential function (EPF) approach to synthetic aperture radar (SAR) scene matching," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2124–2131.

[WYG+14]   J. Wu, L. Yuan, Q. Gong, W. Ma, J. Ma, and Y. Li, "A compression optimization algorithm for community detection," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 667–671.

[WYLZ14]   L. Wang, B. Yang, Y. Li, and N. Zhang, "A novel improvement of particle swarm optimization using dual factors strategy," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 183–189.

[WZGZ14]   Z. Wang, Q. Zhang, M. Gong, and A. Zhou, "A replacement strategy for balancing convergence and diversity in MOEA/D," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2132–2139.

[WZJ14]   N. Wu, Z. Zhu, and Z. Ji, "A growing partitional clustering based on particle swarm optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 229–234.

[wZjLhC14] X. wei Zheng, D. jie Lu, and Z. hua Chen, "A self-adaptive group search optimizer with elitist strategy," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2033–2039.

[WZW14]   H. Wu, F. Zhang, and L. Wu, "An uncultivated wolf pack algorithm for high-dimensional functions and its application in parameters optimization of PID controller," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1477–1482.

[WZZ14]   S. Wang, X. Zuo, and X. Zhao, "Solving dynamic double-row layout problem via an improved simulated annealing algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1299–1304.

[XHY14]   C. Xu, H. Huang, and S. Ye, "A differential evolution with replacement strategy for real-parameter numerical optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1617–1624.

[XLH+14]   X. Xu, L. Lu, P. He, J. Ding, and Y. Ju, "Evolutionary semi-supervised learning with swarm intelligence," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1343–1350.

[XME+14]   J. Xie, Y. Mei, A. Ernst, X. Li, and A. Song, "A genetic programming-based hyper-heuristic approach for storage location assignment problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3000–3007.

[XQZ14]   B. Xue, A. K. Qin, and M. Zhang, "An archive based particle swarm optimisation for feature selection in classification," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3119–3126.

[XS14]   C. Xie and L. Shang, "Anomaly detection in crowded scenes using genetic programming," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1832–1839.

[XSC14]   F. Xie, A. Song, and V. Ciesielski, "Genetic programming based activity recognition on a smartphone sensory data benchmark," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2917–2924.

[XT14]   X. Xu and M. Tang, "A new grouping genetic algorithm for the mapreduce placement problem in cloud computing," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1601–1608.

[XTW+14]   Y. Xiao, M. Trefzer, J. Walker, S. Bale, and A. Tyrrell, "Two step evolution strategy for device motif BSIM model parameter extraction," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2877–2884.

[XXW14]   J. Xu, X. Xi, and S. Wang, "Optimization based on adaptive hinging hyperplanes and genetic algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2040–2046.

[XZC14]   T. Xiang, W. Zhang, and F. Chen, "A verifiable PSO algorithm in cloud computing," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 190–193.

[YCH14]   Z. Yuan, Y. Chen, and R. He, "Agile earth observing satellites mission planning using genetic algorithm based on high quality initial solutions," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 603–609.

[YCLG14]   M. Yang, Z. Cai, C. Li, and J. Guan, "An improved JADE algorithm for global optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 806–812.

[yDjLqW14]   M. yu Du, X. juan Lei, and Z. qiang Wu, "A simplified glowworm swarm optimization algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2861–2868.

[YDP14]   S. Ye, G. Dai, and L. Peng, "A hybrid adaptive coevolutionary differential evolution algorithm for large-scale optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1277–1284.

[YJ14]   P. Yan and M. Jiao, "A chaotic particle swarm optimization algorithm for the jobshop scheduling problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 218–222.

[YKZT14]   C. Yu, L. Kelley, S. Zheng, and Y. Tan, "Fireworks algorithm with differential mutation for solving the CEC 2014 competition problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3238–3245.

[YL14a]   J. J. Yu and V. O. Li, "Base station switching problem for green cellular networks with social spider algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2338–2344.

[YL14b]   J.-C. Yu and Z.-F. Liang, "Evolutionary regional network modeling for efficient engineering optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1258–1264.

[YL14c]   W. Yu and L. Lu, "A route planning strategy for the automatic garment cutter based on genetic algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 379–386.

[YLC14]   M. Yang, R. Li, and T. Chu, "A new method and application for controlling the steady-state probability distributions of probabilistic Boolean networks," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1490–1495.

[YLFZ14]   Z. Yang, K. Li, A. Foley, and C. Zhang, "A new self-learning TLBO algorithm for RBF neural modelling of batteries in electric vehicles," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2685–2691.

[YLL14a]   J. J. Yu, A. Y. Lam, and V. O. Li, "Chemical reaction optimization for the set covering problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 512–519.

[YLL14b]   J. J. Yu, V. O. Li, and A. Y. Lam, "An inter-molecular adaptive collision scheme for chemical reaction optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1998–2004.

[YMZ14]   Y. Yu, H. Ma, and M. Zhang, "A genetic programming approach to distributed QoS-aware web service composition," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1840–1846.

[YQ14]   Y. Yu and H. Qian, "The sampling-and-learning framework: A statistical view of evolutionary algorithms," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 149–158.

[YSM+14]   M. Yuwono, S. W. Su, B. D. Moulton, Y. Guo, and H. T. Nguyen, "An algorithm for scalable clustering: Ensemble rapid centroid estimation," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1250–1257.

[YT14]   Z. M. Yusoh and M. Tang, "Composite SaaS scaling in cloud computing using a hybrid genetic algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1609–1616.

[YTL14]   P. Yang, K. Tang, and J. A. Lozano, "Estimation of distribution algorithms based unmanned aerial vehicle path planner using a new coordinate," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1469–1476.

[YXZQ14]   L. Yexing, C. Xinye, F. Zhun, and Z. Qingfu, "An external archive guided multiobjective evolutionary approach based on decomposition for continuous optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1124–1130.

[YY14]   T. Yoshida and T. Yoshikawa, "A study on non-correspondence in spread between objective space and design variable space for trajectory designing optimization problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2444–2450.

[YZ14]   S. Y. Yuen and X. Zhang, "Multiobjective evolutionary algorithm portfolio: Choosing suitable algorithm for multiobjective optimization problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1967–1973.

[YZM14]   M. Yu, X. Zuo, and C. C. Murray, "A tabu search heuristic for the single row layout problem with shared clearances," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 819–825.

[yZWyW14]   H. yu Zheng, L. Wang, and S. yao Wang, "A co-evolutionary teaching-learning-based optimization algorithm for stochastic RCPSP," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 587–594.

[YZZ14]   C. Yue, Z. Zexuan, and J. Zhen, "Feature extraction based on trimmed complex network representation for metabolomic data classification," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 366–370.

[ZDK14]   L. Zhu, K. Deb, and S. Kulkarni, "Multi-scenario optimization using multi-criterion methods: A case study on Byzantine agreement problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2601–2608.

[ZDPW14]   Y. Zhang, G. Dai, L. Peng, and M. Wang, "HMOEDA_LLE: A hybrid multi-objective estimation of distribution algorithm combining locally linear embedding," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 707–714.

[ZGZ14]   W. Zhang, Y. Gao, and C. Zhang, "The enhanced vector of convergence for particle swarm optimization based on constrict factor," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1337–1342.

[ZH14]   L. Zhang and R. He, "A globally diversified island model PGA for multimodal optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2553–2561.

[ZhDyS+14]   B. Zhang, J. hua Duan, H. yan Sang, J. qing Li, and H. Yan, "A new penalty function method for constrained optimization using harmony search algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 853–859.

[ZJ14]   D. Zan and J. Jaros, "Solving the multidimensional knapsack problem using a CUDA accelerated PSO," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2933–2939.

[ZJLT14]   S. Zheng, A. Janecek, J. Li, and Y. Tan, "Dynamic search in fireworks algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3222–3229.

[ZL14]   G. Zhang and Y. Li, "Cooperative particle swarm optimizer with elimination mechanism for global optimization of multimodal problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 210–217.

[ZLLT14]   Z. Zheng, J. Li, J. Li, and Y. Tan, "Avoiding decoys in multiple targets searching problems using swarm robotics," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 784–791.

[ZLY14]   T. Zhu, W. Luo, and L. Yue, "Combining multipopulation evolutionary algorithms with memory for dynamic optimization problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2047–2054.

[ZLZ14]   X. Zhu, W. Luo, and T. Zhu, "An improved genetic algorithm for dynamic shortest path problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2093–2100.

[ZM14]   J. Zhang and D. Maringer, "Two parameter update schemes for recurrent reinforcement learning," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1449–1453.

[ZPY14]   X. Zhou, W. Peng, and B. Yang, "GEAS: A GA-ES-mixed algorithm for parameterized optimization problems - using CLS problem as an example," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 888–894.

[ZS14]   Y. Zeng and Y. Sun, "Comparison of multiobjective particle swarm optimization and evolutionary algorithms for optimal reactive power dispatch problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 258–265.

[ZSA14]   B. Zhang, K. Shafi, and H. Abbass, "Online knowledge-based evolutionary multi-objective optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2222–2229.

[ZSZG14]   H. Zhang, S. Song, A. Zhou, and X.-Z. Gao, "A clustering based multiobjective evolutionary algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 723–730.

[ZWL14]   K. Zhang, T. Weise, and J. Li, "Fitness level based adaptive operator selection for cutting stock problems with contiguity," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 2539–2546.

[ZWW14]   X. Zheng, L. Wang, and S. Wang, "An enhanced non-dominated sorting based fruit fly optimization algorithm for solving environmental economic dispatch problem," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 626–633.

[ZXXD14]   X. Zong, S. Xiong, H. Xu, and P. Duan, "Space-time simulation model based on particle swarm optimization algorithm for stadium evacuation," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 194–201.

[ZZ14]   Z.-H. Zhan and J. Zhang, "Adaptive particle swarm optimization with variable relocation for dynamic optimization problems," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1565–1570.

[ZZC14]   Y.-J. Zheng, B. Zhang, and Z. Cheng, "Hyper-heuristics with penalty parameter adaptation for constrained optimization," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1883–1889.

[ZZCC14]   J. Zhang, C. Zhang, T. Chu, and M. Cao, "Cooperation with potential leaders in evolutionary game study of networking agents," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 918–923.

[ZZWY14]   J. Zhang, X. Zhu, W. Wang, and J. Yao, "A fast restarting particle swarm optimizer," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 1351–1358.

[ZZZ14]   B. Zhang, M.-X. Zhang, and Y.-J. Zheng, "A hybrid biogeography-based optimization and fireworks algorithm," in *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, C. A. Coello Coello, Ed., Beijing, China, 6-11 July 2014, pp. 3200–3206.