

Список литературы

- [1] Lee, G., Luo, M., Zambetta, F., and Li, X. (2014) Learning a Super Mario controller from examples of human play. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1–8.
- [2] Nguyen, T., Nguyen, K., and Thawonmas, R. (2014) Integrating fuzzy integral and heuristic search for unit micromanagement in RTS games. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 9–12.
- [3] Ashlock, D. and Hingston, P. (2014) *Tego - a framework for adversarial planning. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 13–20.
- [4] Gaudesi, M., Piccolo, E., Squillero, G., and Tonda, A. (2014) TURAN: Evolving non-deterministic players for the iterated prisoner’s dilemma. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 21–27.
- [5] Buck, A., Banerjee, T., and Keller, J. (2014) Evolving a fuzzy goal-driven strategy for the game of Geister. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 28–35.
- [6] Handa, H. (2014) Deep boltzmann machine for evolutionary agents of Mario AI. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 36–41.
- [7] Rahman, H. F., Sarker, R., Essam, D., and Chang, G. (2014) A memetic algorithm for solving permutation flow shop problems with known and unknown machine breakdowns. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 42–49.
- [8] Ma, A., Zhong, Y., and Zhang, L. (2014) Remote sensing imagery clustering using an adaptive bi-objective memetic method. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 50–57.
- [9] Ma, J., Lei, Y., Wang, Z., and Jiao, L. (2014) A memetic algorithm based on immune multi-objective optimization for flexible job-shop scheduling problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 58–65.
- [10] Ma, W., Zuo, Y., Zeng, J., Liang, S., and Jiao, L. (2014) A memetic algorithm for solving flexible job-shop scheduling problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 66–73.
- [11] Wei, K. and Dinneen, M. J. (2014) Hybridizing the dynamic mutation approach with local searches to overcome local optima. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 74–81.
- [12] Liu, C. and Li, B. (2014) Memetic algorithm with adaptive local search depth for large scale global optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 82–88.
- [13] Albukhanajer, W. A., Jin, Y., and Briffa, J. A. (2014) Neural network ensembles for image identification using Pareto-optimal features. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 89–96.
- [14] Valsecchi, A., Mesejo, P., Marrakchi-Kacem, L., Cagnoni, S., and Damas, S. (2014) Automatic evolutionary medical image segmentation using deformable models. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 97–104.

- [15] Schaefer, G., Krawczyk, B., Doshi, N., and Nakashima, T. (2014) Cost-sensitive texture classification. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 105–108.
- [16] Naqvi, S. S., Browne, W. N., and Hollitt, C. (2014) Genetic algorithms based feature combination for salient object detection, for autonomously identified image domain types. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 109–116.
- [17] Fu, W., Johnston, M., and Zhang, M. (2014) Unsupervised learning for edge detection using genetic programming. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 117–124.
- [18] Wagner, M. and Neumann, F. (2014) Single- and multi-objective genetic programming: New runtime results for SORTING. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 125–132.
- [19] Wei, K. and Dinneen, M. J. (2014) Runtime comparison of two fitness functions on a memetic algorithm for the clique problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 133–140.
- [20] He, J., Boris, M., and Zhou, Y. (2014) A theoretical assessment of solution quality in evolutionary algorithms for the knapsack problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 141–148.
- [21] Yu, Y. and Qian, H. (2014) The sampling-and-learning framework: A statistical view of evolutionary algorithms. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 149–158.
- [22] Chotard, A., Auger, A., and Hansen, N. (2014) Markov chain analysis of evolution strategies on a linear constraint optimization problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 159–166.
- [23] Everitt, T., Lattimore, T., and Hutter, M. (2014) Free lunch for optimisation under the universal distribution. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 167–174.
- [24] Arana-Daniel, N., Gallegos, A. A., Lopez-Franco, C., and Alanis, A. Y. (2014) Smooth global and local path planning for mobile robot using particle swarm optimization, radial basis functions, splines and Bezier curves. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 175–182.
- [25] Wang, L., Yang, B., Li, Y., and Zhang, N. (2014) A novel improvement of particle swarm optimization using dual factors strategy. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 183–189.
- [26] Xiang, T., Zhang, W., and Chen, F. (2014) A verifiable PSO algorithm in cloud computing. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 190–193.
- [27] Zong, X., Xiong, S., Xu, H., and Duan, P. (2014) Space-time simulation model based on particle swarm optimization algorithm for stadium evacuation. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 194–201.
- [28] Campos, M. and Krohling, R. (2014) Bare bones particle swarm with scale mixtures of Gaussians for dynamic constrained optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 202–209.
- [29] Zhang, G. and Li, Y. (2014) Cooperative particle swarm optimizer with elimination mechanism for global optimization of multimodal problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 210–217.

- [30] Yan, P. and Jiao, M. (2014) A chaotic particle swarm optimization algorithm for the jobshop scheduling problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 218–222.
- [31] Dong, W., Tian, J., Tang, X., Sheng, K., and Liu, J. (2014) Autonomous learning adaptation for particle swarm optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 223–228.
- [32] Wu, N., Zhu, Z., and Ji, Z. (2014) A growing partitional clustering based on particle swarm optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 229–234.
- [33] Kuang, F., Jin, Z., Xu, W., and Zhang, S. (2014) A novel chaotic artificial bee colony algorithm based on tent map. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 235–241.
- [34] Chen, M.-R., Zeng, W., Zeng, G.-Q., Li, X., and Luo, J.-P. (2014) A novel artificial bee colony algorithm with integration of extremal optimization for numerical optimization problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 242–249.
- [35] Lauri, F. and Koukam, A. (2014) Hybrid ACO/EA algorithms applied to the multi-agent patrolling problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 250–257.
- [36] Zeng, Y. and Sun, Y. (2014) Comparison of multiobjective particle swarm optimization and evolutionary algorithms for optimal reactive power dispatch problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 258–265.
- [37] Chaman-Garcia, I., Coello, C. C., and Arias-Montano, A. (2014) MOPSOhv: A new hypervolume-based multi-objective particle swarm optimizer. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 266–273.
- [38] Peng, Z., Zheng, J., and Zou, J. (2014) A population diversity maintaining strategy based on dynamic environment evolutionary model for dynamic multiobjective optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 274–281.
- [39] Carvalho, L. and Fernandes, M. (2014) Multi-objective flexible job-shop scheduling problem with DIPSO: More diversity, greater efficiency. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 282–289.
- [40] Hu, X.-B., Wang, M., and Leeson, M. S. (2014) Calculating the complete Pareto front for a special class of continuous multi-objective optimization problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 290–297.
- [41] Lara-Cabrera, R., Cotta, C., and Fernandez-Leiva, A. J. (2014) A self-adaptive evolutionary approach to the evolution of aesthetic maps for a RTS game. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 298–304.
- [42] Cai, Y. and Du, J. (2014) Enhanced differential evolution with adaptive direction information. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 305–312.
- [43] Lotif, M. (2014) Visualizing the population of meta-heuristics during the optimization process using self-organizing maps. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 313–319.

- [44] Lin, K., Wang, X., Li, X., and Tan, Y. (2014) Self-adaptive morphable model based multi-view non-cooperative 3D face reconstruction. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 320–325.
- [45] Turkey, A. and Abdullah, S. (2014) Using electromagnetic algorithm for tuning the structure and parameters of neural networks. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 326–331.
- [46] Li, Z., Shang, Z., Liang, J. J., and Qu, B. Y. (2014) Feature selection based on manifold-learning with dynamic constraint-handling differential evolution. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 332–337.
- [47] Viegas, J., Vieira, S., Sousa, J., and Henriques, E. (2014) Metaheuristics for the 3D bin packing problem in the steel industry. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 338–343.
- [48] Gonzalez-Pardo, A. and Camacho, D. (2014) A new CSP graph-based representation to resource-constrained project scheduling problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 344–351.
- [49] Liu, H., Zhou, J., Wu, X., and Yuan, P. (2014) Optimization algorithm for rectangle packing problem based on varied-factor genetic algorithm and lowest front-line strategy. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 352–357.
- [50] Farzan, S. and DeSouza, G. (2014) A parallel evolutionary solution for the inverse kinematics of generic robotic manipulators. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 358–365.
- [51] Yue, C., Zexuan, Z., and Zhen, J. (2014) Feature extraction based on trimmed complex network representation for metabolomic data classification. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 366–370.
- [52] Tamura, K. and Yasuda, K. (2014) Primary study on feedback controlled differential evolution. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 371–378.
- [53] Yu, W. and Lu, L. (2014) A route planning strategy for the automatic garment cutter based on genetic algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 379–386.
- [54] Lopez-Herrejon, R. E., Ferrer, J., Chicano, F., Egyed, A., and Alba, E. (2014) Comparative analysis of classical multi-objective evolutionary algorithms and seeding strategies for pairwise testing of software product lines. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 387–396.
- [55] Li, Y., Zhou, A., and Zhang, G. (2014) An MOEA/D with multiple differential evolution mutation operators. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 397–404.
- [56] Brands, T., Wismans, L., and van Berkum, E. (2014) Multi-objective transportation network design: Accelerating search by applying e-NSGAI. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 405–412.
- [57] Acampora, G., Ishibuchi, H., and Vitiello, A. (2014) A comparison of multi-objective evolutionary algorithms for the ontology meta-matching problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 413–420.
- [58] Mohammadi, A., Omidvar, M. N., Li, X., and Deb, K. (2014) Integrating user preferences and decomposition methods for many-objective optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 421–428.

- [59] Martinez, S. Z. and Coello, C. A. C. (2014) A multi-objective evolutionary algorithm based on decomposition for constrained multi-objective optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 429–436.
- [60] Georgieva, K. S. and Engelbrecht, A. P. (2014) Cooperative DynDE for temporal data clustering. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 437–444.
- [61] Liang, J. J., Zheng, B., Qu, B. Y., and Song, H. (2014) Multi-objective differential evolution algorithm based on fast sorting and a novel constraints handling technique. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 445–450.
- [62] Aalto, J. and Lampinen, J. (2014) A mutation and crossover adaptation mechanism for differential evolution algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 451–458.
- [63] Segura, C., Coello, C. A. C., Segredo, E., and Leon, C. (2014) An analysis of the automatic adaptation of the crossover rate in differential evolution. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 459–466.
- [64] Qin, A. K., Tang, K., Pan, H., and Xia, S. (2014) Self-adaptive differential evolution with local search chains for real-parameter single-objective optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 467–474.
- [65] Amin, R., Tang, J., Ellejmi, M., Kirby, S., and Abbass, H. A. (2014) Trading-off simulation fidelity and optimization accuracy in air-traffic experiments using differential evolution. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 475–482.
- [66] Bennett, S., Nguyen, S., and Zhang, M. (2014) A hybrid discrete particle swarm optimisation method for grid computation scheduling. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 483–490.
- [67] Cui, T., Cheng, S., and Bai, R. (2014) A combinatorial algorithm for the cardinality constrained portfolio optimization problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 491–498.
- [68] Sabar, N. R. and Kendall, G. (2014) Using harmony search with multiple pitch adjustment operators for the portfolio selection problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 499–503.
- [69] Smullen, D., Gillett, J., Heron, J., and Rahnamayan, S. (2014) Genetic algorithm with self-adaptive mutation controlled by chromosome similarity. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 504–511.
- [70] Yu, J. J., Lam, A. Y., and Li, V. O. (2014) Chemical reaction optimization for the set covering problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 512–519.
- [71] Sabar, N. R. and Kendall, G. (2014) Aircraft landing problem using hybrid differential evolution and simple descent algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 520–527.
- [72] Li, B., Chiong, R., and Gong, L. (2014) Search-evasion path planning for submarines using the artificial bee colony algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 528–535.

- [73] Fatnassi, E., Chebbi, O., and Chaouachi, J. (2014) A bee colony algorithm for routing guided automated battery-operated electric vehicles in personal rapid transit systems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 536–543.
- [74] Fong, C. W., Asmuni, H., Lam, W. S., McCollum, B., and McMullan, P. (2014) A novel hybrid approach for curriculum based course timetabling problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 544–550.
- [75] Bulut, O. and Tasgetiren, M. F. (2014) A discrete artificial bee colony algorithm for the economic lot scheduling problem with returns. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 551–557.
- [76] Liang, Y.-C., Chen, H.-L., and Nien, Y.-H. (2014) Artificial bee colony for workflow scheduling. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 558–564.
- [77] Madureira, A., Cunha, B., and Pereira, I. (2014) Cooperation mechanism for distributed resource scheduling through artificial bee colony based self-organized scheduling system. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 565–572.
- [78] Jana, N. D., Das, S., and Sil, J. (2014) Particle swarm optimization with population adaptation. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 573–578.
- [79] Liu, M., Singh, H., and Ray, T. (2014) A benchmark generator for dynamic capacitated arc routing problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 579–586.
- [80] Yu Zheng, H., Wang, L., and Yao Wang, S. (2014) A co-evolutionary teaching-learning-based optimization algorithm for stochastic RCPSP. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 587–594.
- [81] Liu, M., Singh, H., and Ray, T. (2014) A memetic algorithm with a new split scheme for solving dynamic capacitated arc routing problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 595–602.
- [82] Yuan, Z., Chen, Y., and He, R. (2014) Agile earth observing satellites mission planning using genetic algorithm based on high quality initial solutions. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 603–609.
- [83] Tang, J. and Abbass, H. A. (2014) Behavioral learning of aircraft landing sequencing using a society of probabilistic finite state machines. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 610–617.
- [84] Hunt, R., Johnston, M., and Zhang, M. (2014) Evolving machine-specific dispatching rules for a two-machine job shop using genetic programming. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 618–625.
- [85] Zheng, X., Wang, L., and Wang, S. (2014) An enhanced non-dominated sorting based fruit fly optimization algorithm for solving environmental economic dispatch problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 626–633.
- [86] Niu, B., Xie, T., Duan, Q., and Tan, L. (2014) Particle swarm optimization for integrated yard truck scheduling and storage allocation problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 634–639.
- [87] Liu, T., Sun, C., Zeng, J., and Jin, Y. (2014) Similarity- and reliability-assisted fitness estimation for particle swarm optimization of expensive problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 640–646.

- [88] Niu, B. and Bi, Y. (2014) Binary bacterial foraging optimization for solving 0/1 knapsack problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 647–652.
- [89] Kizilay, D., Tasgetiren, M. F., Bulut, O., and Bostan, B. (2014) A discrete artificial bee colony algorithm for the parallel machine scheduling problem in DY0 painting company. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 653–660.
- [90] Wang, F., Gao, Y., and Zhu, Z. (2014) Locality-sensitive hashing based multiobjective memetic algorithm for dynamic pickup and delivery problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 661–666.
- [91] Wu, J., Yuan, L., Gong, Q., Ma, W., Ma, J., and Li, Y. (2014) A compression optimization algorithm for community detection. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 667–671.
- [92] Wang, S., Gong, M., Ma, L., Cai, Q., and Jiao, L. (2014) Decomposition based multiobjective evolutionary algorithm for collaborative filtering recommender systems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 672–679.
- [93] Mu, C., Xie, J., Liu, R., and Jiao, L. (2014) A memetic algorithm using local structural information for detecting community structure in complex networks. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 680–686.
- [94] Song, X., Ji, J., Yang, C., and Zhang, X. (2014) Ant colony clustering based on sampling for community detection. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 687–692.
- [95] Kuang, L., Zhao, Z., Wang, F., Li, Y., Yu, F., and Li, Z. (2014) A differential evolution box-covering algorithm for fractal dimension on complex networks. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 693–699.
- [96] Mu, C., Zhang, J., and Jiao, L. (2014) An intelligent ant colony optimization for community detection in complex networks. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 700–706.
- [97] Zhang, Y., Dai, G., Peng, L., and Wang, M. (2014) HMOEDA_LLE: A hybrid multi-objective estimation of distribution algorithm combining locally linear embedding. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 707–714.
- [98] Liu, B., Chen, Q., Zhang, Q., Gielen, G., and Grout, V. (2014) Behavioral study of the surrogate model-aware evolutionary search framework. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 715–722.
- [99] Zhang, H., Song, S., Zhou, A., and Gao, X.-Z. (2014) A clustering based multiobjective evolutionary algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 723–730.
- [100] Li, X., He, W., and Hirasawa, K. (2014) Creating stock trading rules using graph-based estimation of distribution algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 731–738.
- [101] Wong, P.-K., Lo, L.-Y., Wong, M.-L., and Leung, K.-S. (2014) Grammar based genetic programming with Bayesian network. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 739–746.

- [102] Krawczyk, B., Triguero, I., Garcia, S., Wozniak, M., and Herrera, F. (2014) A first attempt on evolutionary prototype reduction for nearest neighbor one-class classification. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 747–753.
- [103] Liu, R., Niu, X., and Jiao, L. (2014) A multi-swarm particle swarm optimization with orthogonal learning for locating and tracking multiple optima in dynamic environments. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 754–761.
- [104] Liu, J., He, Y., and Hu, Y. (2014) Regression ensemble with PSO algorithms based fuzzy integral. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 762–768.
- [105] Jiang, S. and Yang, S. (2014) An improved quantum-behaved particle swarm optimization based on linear interpolation. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 769–775.
- [106] Oh, H. and Jin, Y. (2014) Evolving hierarchical gene regulatory networks for morphogenetic pattern formation of swarm robotics. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 776–783.
- [107] Zheng, Z., Li, J., Li, J., and Tan, Y. (2014) Avoiding decoys in multiple targets searching problems using swarm robotics. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 784–791.
- [108] Liu, J., gen Cai, B., and Wang, J. (2014) Particle swarm optimization for integrity monitoring in BDS/DR based railway train positioning. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 792–797.
- [109] Li, X., He, W., and Hirasawa, K. (2014) Learning and evolution of genetic network programming with knowledge transfer. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 798–805.
- [110] Yang, M., Cai, Z., Li, C., and Guan, J. (2014) An improved JADE algorithm for global optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 806–812.
- [111] Feng, S., Tan, S., and Lu, J. (2014) Characterizing the impact of selection on the evolution of cooperation in complex networks. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 813–818.
- [112] Yu, M., Zuo, X., and Murray, C. C. (2014) A tabu search heuristic for the single row layout problem with shared clearances. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 819–825.
- [113] Gao, C., Weise, T., and Li, J. (2014) A weighting-based local search heuristic algorithm for the set covering problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 826–831.
- [114] Schlueter, M. and Munetomo, M. (2014) Parallelization for space trajectory optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 832–839.
- [115] Jiang, Q., Wang, L., Hei, X., Fei, R., Yang, D., Zou, F., Li, H., and Cao, Z. (2014) Optimal approximation of stable linear systems with a novel and efficient optimization algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 840–844.
- [116] Bolufe-Rohler, A. and Chen, S. (2014) Extending minimum population search towards large scale global optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 845–852.

- [117] Zhang, B., hua Duan, J., yan Sang, H., qing Li, J., and Yan, H. (2014) A new penalty function method for constrained optimization using harmony search algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 853–859.
- [118] Davendra, D., Senkerik, R., Zelinka, I., and Pluhacek, M. (2014) Scatter search algorithm with chaos based stochasticity. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 860–866.
- [119] Akhmedova, S. and Semenkin, E. (2014) Co-operation of biology related algorithms meta-heuristic in ANN-based classifiers design. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 867–872.
- [120] Felipe, D., Goldbarg, E. F. G., and Goldbarg, M. C. (2014) Scientific algorithms for the car renter salesman problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 873–879.
- [121] Watanabe, S., Chiba, Y., and Kanazaki, M. (2014) A proposal on analysis support system based on association rule analysis for non-dominated solutions. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 880–887.
- [122] Zhou, X., Peng, W., and Yang, B. (2014) GEAS: A GA-ES-mixed algorithm for parameterized optimization problems - using CLS problem as an example. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 888–894.
- [123] Alvares, M., Buarque, F., and Marwala, T. (2014) Application of computational intelligence for source code classification. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 895–902.
- [124] Hu, X.-B. and Leeson, M. S. (2014) Genetic algorithm with spatial receding horizon control for the optimization of facility locations. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 903–909.
- [125] Reps, J., Aickelin, U., and Garibaldi, J. (2014) Tuning a multiple classifier system for side effect discovery using genetic algorithms. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 910–917.
- [126] Zhang, J., Zhang, C., Chu, T., and Cao, M. (2014) Cooperation with potential leaders in evolutionary game study of networking agents. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 918–923.
- [127] Duan, P., Xiong, S., Hu, Z., Chen, Q., and Zhong, X. (2014) Multi-objective optimization model based on steady degree for teaching building evacuation. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 924–929.
- [128] Bello-Orgaz, G. and Camacho, D. (2014) Evolutionary clustering algorithm for community detection using graph-based information. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 930–937.
- [129] Nishiyama, M. and Iba, H. (2014) Applying conversion matrix to robots for imitating motion using genetic algorithms. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 938–944.
- [130] Manfrini, F., Barbosa, H., and Bernadino, H. (2014) Optimization of combinational logic circuits through decomposition of truth table and evolution of sub-circuits. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 945–950.
- [131] Thanh, B. H. T., Van, L. T., Xuan, H. N., Duc, A. N., and Manh, T. P. (2014) Reordering dimensions for radial visualization of multidimensional data - a genetic algorithms approach. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 951–958.

- [132] Silva, E. Q., Camilo-Junior, C. G., Pascoal, L. M. L., and Rosa, T. C. (2014) An evolutionary approach for combining results of recommender systems techniques based on collaborative filtering. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 959–966.
- [133] Bu, C., Luo, W., and Zhu, T. (2014) Differential evolution with a species-based repair strategy for constrained optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 967–974.
- [134] Ameca-Alducin, M.-Y., Mezura-Montes, E., and Cruz-Ramirez, N. (2014) Differential evolution with combined variants for dynamic constrained optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 975–982.
- [135] Singh, H., Asafuddoula, M., and Ray, T. (2014) Solving problems with a mix of hard and soft constraints using modified infeasibility driven evolutionary algorithm (IDEA-M). Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 983–990.
- [136] Hamza, N., Sarker, R., and Essam, D. (2014) Differential evolution with a constraint consensus mutation for solving optimization problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 991–997.
- [137] Poole, D., Allen, C., and Rendall, T. (2014) Constraint handling in agent-based optimization by independent sub-swarms. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 998–1005.
- [138] Elsayed, S., Sarker, R., and Essam, D. (2014) United multi-operator evolutionary algorithms. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1006–1013.
- [139] Nobile, M. S., Citrolo, A. G., Cazzaniga, P., Besozzi, D., and Mauri, G. (2014) A memetic hybrid method for the molecular distance geometry problem with incomplete information. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1014–1021.
- [140] Thompson, J. A. and Congdon, C. B. (2014) GAMI-CRM: Using de novo motif inference to detect cis-regulatory modules. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1022–1029.
- [141] Pang, W. and Coghill, G. (2014) An immune network approach to learning qualitative models of biological pathways. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1030–1037.
- [142] Chen, Y., Shang, Y., and Xu, D. (2014) Multi-dimensional scaling and MODELLER-based evolutionary algorithms for protein model refinement. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1038–1045.
- [143] Chowdhury, A., Rakshit, P., Konar, A., and Nagar, A. (2014) A modified bat algorithm to predict protein-protein interaction network. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1046–1053.
- [144] Peterson, L. (2014) Evolutionary algorithms applied to likelihood function maximization during Poisson, logistic, and Cox proportional hazards regression analysis. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1054–1061.
- [145] Elsayed, S., Ray, T., and Sarker, R. (2014) A surrogate-assisted differential evolution algorithm with dynamic parameters selection for solving expensive optimization problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1062–1068.

- [146] Singh, H., Isaacs, A., and Ray, T. (2014) A hybrid surrogate based algorithm (HSBA) to solve computationally expensive optimization problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1069–1075.
- [147] Biswas, S., Eita, M. A., Das, S., and Vasilakos, A. V. (2014) Evaluating the performance of group counseling optimizer on CEC 2014 problems for computational expensive optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1076–1083.
- [148] Erlich, I., Rueda, J. L., and Wildenhues, S. (2014) Solving the IEEE-CEC 2014 expensive optimization test problems by using single-particle MVMO. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1084–1091.
- [149] Krityakierne, T., Mueller, J., and Shoemaker, C. (2014) SO-MODS: Optimization for high dimensional computationally expensive multi-modal functions with surrogate search. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1092–1099.
- [150] Rosales-Perez, A., Escalante, H. J., Coello, C. A. C., Gonzalez, J. A., and Reyes-Garcia, C. A. (2014) An evolutionary multi-objective approach for prototype generation. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1100–1107.
- [151] Cheng, P., Pan, J.-S., and Lin, C.-W. (2014) Use EMO to protect sensitive knowledge in association rule mining by removing items. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1108–1115.
- [152] Debie, E., Shafi, K., Merrick, K., and Lokan, C. (2014) An online evolutionary rule learning algorithm with incremental attribute discretization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1116–1123.
- [153] Yexing, L., Xinye, C., Zhun, F., and Qingfu, Z. (2014) An external archive guided multiobjective evolutionary approach based on decomposition for continuous optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1124–1130.
- [154] Bourennani, F., Rahnamayan, S., and Naterer, G. F. (2014) Multi-objective differential evolution with leadership enhancement (MODEL). Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1131–1138.
- [155] Bandaru, S., Ng, A., and Deb, K. (2014) On the performance of classification algorithms for learning Pareto-dominance relations. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1139–1146.
- [156] Purshouse, R. C., Deb, K., Mansor, M. M., Mostaghim, S., and Wang, R. (2014) A review of hybrid evolutionary multiple criteria decision making methods. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1147–1154.
- [157] Alhindi, A. and Zhang, Q. (2014) MOEA/D with tabu search for multiobjective permutation flow shop scheduling problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1155–1164.
- [158] ming Cheung, Y. and Gu, F. (2014) Online objective reduction for many-objective optimization problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1165–1171.
- [159] Gee, S. B. and Tan, K. C. (2014) Diversity preservation with hybrid recombination for evolutionary multiobjective optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1172–1178.

- [160] Alicino, S. and Vasile, M. (2014) An evolutionary approach to the solution of multi-objective min-max problems in evidence-based robust optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1179–1186.
- [161] Luo, C., Shimoyama, K., and Obayashi, S. (2014) Kriging model based many-objective optimization with efficient calculation of expected hypervolume improvement. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1187–1194.
- [162] Sudo, T., Nojima, Y., and Ishibuchi, H. (2014) Effects of ensemble action selection on the evolution of iterated prisoner’s dilemma game strategies. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1195–1201.
- [163] Tsang, J. (2014) The structure of a probabilistic 2-state finite transducer representation for prisoner’s dilemma. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1202–1209.
- [164] Scheepers, C. and Engelbrecht, A. (2014) Competitive coevolutionary training of simple soccer agents from zero knowledge. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1210–1217.
- [165] Greenwood, G., Elsayed, S., Sarker, R., and Abbass, H. (2014) Online generation of trajectories for autonomous vehicles using a multi-agent system. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1218–1224.
- [166] Lee, S.-M. and Myung, H. (2014) A cooperative coevolutionary approach to multi-robot formation control. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1225–1231.
- [167] Li, M. and O’Riordan, C. (2014) Graph centrality measures and the robustness of cooperation. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1232–1237.
- [168] Ling, S. H., San, P. P., Lam, H. K., and Nguyen, H. (2014) Non-invasive detection of hypoglycemic episodes in type1 diabetes using intelligent hybrid rough neural system. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1238–1242.
- [169] Chan, K. Y., Rajakaruna, N., Rathnayake, C., and Murray, I. (2014) Image deblurring using a hybrid optimization algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1243–1249.
- [170] Yuwono, M., Su, S. W., Moulton, B. D., Guo, Y., and Nguyen, H. T. (2014) An algorithm for scalable clustering: Ensemble rapid centroid estimation. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1250–1257.
- [171] Yu, J.-C. and Liang, Z.-F. (2014) Evolutionary regional network modeling for efficient engineering optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1258–1264.
- [172] Li, F., Zhang, Y., and Li, H. (2014) Quantum bacterial foraging optimization algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1265–1272.
- [173] Liu, W.-Y. and Lin, C.-C. (2014) A cultural algorithm for spatial forest harvest scheduling. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1273–1276.

- [174] Ye, S., Dai, G., and Peng, L. (2014) A hybrid adaptive coevolutionary differential evolution algorithm for large-scale optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1277–1284.
- [175] Mahdavi, S., Shiri, M. E., and Rahnamayan, S. (2014) Cooperative co-evolution with a new decomposition method for large-scale optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1285–1292.
- [176] Wei, F., Wang, Y., and Zong, T. (2014) Variable grouping based differential evolution using an auxiliary function for large scale global optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1293–1298.
- [177] Wang, S., Zuo, X., and Zhao, X. (2014) Solving dynamic double-row layout problem via an improved simulated annealing algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1299–1304.
- [178] Omidvar, M. N., Mei, Y., and Li, X. (2014) Effective decomposition of large-scale separable continuous functions for cooperative co-evolutionary algorithms. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1305–1312.
- [179] Mei, Y., Li, X., and Yao, X. (2014) Variable neighborhood decomposition for large scale capacitated arc routing problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1313–1320.
- [180] Ni, Q., Cao, C., and Yin, X. (2014) A new dynamic probabilistic particle swarm optimization with dynamic random population topology. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1321–1327.
- [181] Gu, J. and Shi, X. (2014) An adaptive PSO based on motivation mechanism and acceleration restraint operator. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1328–1336.
- [182] Zhang, W., Gao, Y., and Zhang, C. (2014) The enhanced vector of convergence for particle swarm optimization based on constrict factor. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1337–1342.
- [183] Xu, X., Lu, L., He, P., Ding, J., and Ju, Y. (2014) Evolutionary semi-supervised learning with swarm intelligence. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1343–1350.
- [184] Zhang, J., Zhu, X., Wang, W., and Yao, J. (2014) A fast restarting particle swarm optimizer. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1351–1358.
- [185] Li, Z., Zhang, J., Wang, W., and Yao, J. (2014) Dimensions cooperate by Euclidean metric in particle swarm optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1359–1366.
- [186] Li, Y., Tian, X., Jiao, L., and Zhang, X. (2014) Biclustering of gene expression data using particle swarm optimization integrated with pattern-driven local search. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1367–1373.
- [187] Shuai, L., Wang, Z., and Gong, T. (2014) Simulating the coevolution of language and long-term memory. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1374–1381.
- [188] Chen, G., Luo, W., and Zhu, T. (2014) Evolutionary clustering with differential evolution. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1382–1389.

- [189] Ameerudden, M. R. and Rughooputh, H. (2014) Smart hybrid genetic algorithms in the bandwidth optimization of a PIFA antenna. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1390–1396.
- [190] Chen, S.-W. and Chiang, T.-C. (2014) Evolutionary many-objective optimization by MO-NSGA-II with enhanced mating selection. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1397–1404.
- [191] Luo, Y., Huang, S., and Hu, J. (2014) A niching two-layered differential evolution with self-adaptive control parameters. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1405–1412.
- [192] Lattarulo, V., Lindley, B. A., and Parks, G. T. (2014) Application of the MOAA for the optimization of CORAIL assemblies for nuclear reactors. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1413–1420.
- [193] Pop, P. and Chira, C. (2014) A hybrid approach based on genetic algorithms for solving the clustered vehicle routing problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1421–1426.
- [194] Montgomery, J., Chen, S., and Gonzalez-Fernandez, Y. (2014) Identifying and exploiting the scale of a search space in differential evolution. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1427–1434.
- [195] Ksibi, A., Ammar, A. B., and Amar, C. B. (2014) Enhancing relevance re-ranking using nature-inspired meta-heuristic optimization algorithms. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1435–1442.
- [196] Kromer, P., Zelinka, I., and Snasel, V. (2014) Can deterministic chaos improve differential evolution for the linear ordering problem? Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1443–1448.
- [197] Zhang, J. and Maringer, D. (2014) Two parameter update schemes for recurrent reinforcement learning. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1449–1453.
- [198] Li, Z., Shang, Z., Liang, J. J., and Qu, B. Y. (2014) Differential evolution strategy based on the constraint of fitness values classification. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1454–1460.
- [199] Htiouech, S. and Bouamama, S. (2014) A Lagrangian and surrogate information enhanced tabu search for the MMKP. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1461–1468.
- [200] Yang, P., Tang, K., and Lozano, J. A. (2014) Estimation of distribution algorithms based unmanned aerial vehicle path planner using a new coordinate. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1469–1476.
- [201] Wu, H., Zhang, F., and Wu, L. (2014) An uncultivated wolf pack algorithm for high-dimensional functions and its application in parameters optimization of PID controller. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1477–1482.
- [202] Marchetti, L., Manca, V., and Zelinka, I. (2014) On the inference of deterministic chaos: Evolutionary algorithm and metabolic P system approaches. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1483–1489.

- [203] Yang, M., Li, R., and Chu, T. (2014) A new method and application for controlling the steady-state probability distributions of probabilistic Boolean networks. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1490–1495.
- [204] He, T. and Chan, K. C. (2014) Evolutionary community detection in social networks. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1496–1503.
- [205] O'Neill, M., Nicolau, M., and Agapitos, A. (2014) Experiments in program synthesis with grammatical evolution: A focus on integer sorting. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1504–1511.
- [206] Pascoal, L. M. L., Camilo-Junior, C. G., Silva, E. Q., and Rosa, T. C. (2014) A social-evolutionary approach to compose a similarity function used on event recommendation. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1512–1519.
- [207] Matei, O., Contrás, D., and Pop, P. (2014) Applying evolutionary computation for evolving ontologies. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1520–1527.
- [208] Guo, Y., Chen, M., Fu, H., and Liu, Y. (2014) Find robust solutions over time by two-layer multi-objective optimization method. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1528–1535.
- [209] Hui, S. and Ponnuthurai, N. S. (2014) Niching-based self-adaptive ensemble DE with MMTS for solving dynamic optimization problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1536–1541.
- [210] Mavrovouniotis, M. and Yang, S. (2014) Interactive and non-interactive hybrid immigrants schemes for ant algorithms in dynamic environments. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1542–1549.
- [211] Fu, H., Lewis, P., Sendhoff, B., Tang, K., and Yao, X. (2014) What are dynamic optimization problems? Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1550–1557.
- [212] Chow, C. K. and Yuen, S. Y. (2014) A dynamic history-driven evolutionary algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1558–1564.
- [213] Zhan, Z.-H. and Zhang, J. (2014) Adaptive particle swarm optimization with variable relocation for dynamic optimization problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1565–1570.
- [214] Chang, P.-C. and He, X. (2014) Macroscopic indeterminacy swarm optimization (MISO) algorithm for real-parameter search. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1571–1578.
- [215] Jiang, Y., Yang, Z., Hao, Z., Wang, Y., and He, H. (2014) A cooperative honey bee mating algorithm and its application in multi-threshold image segmentation. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1579–1585.
- [216] Chou, C.-H., Chia-Ling, H., and Chang, P.-C. (2014) A RFID network design methodology for decision problem in health care. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1586–1592.

- [217] Shang-Chia, W., Wei-Chang, Y., and Tso-Jung, Y. (2014) Pareto simplified swarm optimization for grid-computing reliability and service makspan in grid-RMS. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1593–1600.
- [218] Xu, X. and Tang, M. (2014) A new grouping genetic algorithm for the mapreduce placement problem in cloud computing. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1601–1608.
- [219] Yusoh, Z. M. and Tang, M. (2014) Composite SaaS scaling in cloud computing using a hybrid genetic algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1609–1616.
- [220] Xu, C., Huang, H., and Ye, S. (2014) A differential evolution with replacement strategy for real-parameter numerical optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1617–1624.
- [221] Erlich, I., Rueda, J. L., and Wildenhues, S. (2014) Evaluating the mean-variance mapping optimization on the IEEE-CEC 2014 test suite. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1625–1632.
- [222] Molina, D., Lacroix, B., and Herrera, F. (2014) Influence of regions on the memetic algorithm for the special session on real-parameter single objective optimisation. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1633–1640.
- [223] Garden, R. and Engelbrecht, A. (2014) Analysis and classification of optimisation benchmark functions and benchmark suites. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1641–1649.
- [224] Elsayed, S., Sarker, R., Essam, D., and Hamza, N. (2014) Testing united multi-operator evolutionary algorithms on the CEC2014 real-parameter numerical optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1650–1657.
- [225] Tanabe, R. and Fukunaga, A. (2014) Improving the search performance of SHADE using linear population size reduction. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1658–1665.
- [226] Santu, S. K. K., Rahman, M. M., Islam, M. M., and Murase, K. (2014) Towards better generalization in Pittsburgh learning classifier systems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1666–1673.
- [227] Scardapane, S., Comminiello, D., Scarpiniti, M., and Uncini, A. (2014) GP-based kernel evolution for L2-regularization networks. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1674–1681.
- [228] Li, X., He, W., and Hirasawa, K. (2014) Generalized classifier system: Evolving classifiers with cyclic conditions. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1682–1689.
- [229] Lee, P.-M. and Hsiao, T.-C. (2014) Applying LCS to affective images classification in spatial-frequency domain. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1690–1697.
- [230] Nguyen, T. T., Liew, A. W.-C., Tran, M. T., Pham, X. C., and Nguyen, M. P. (2014) A novel genetic algorithm approach for simultaneous feature and classifier selection in multi classifier system. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1698–1705.

- [231] Glette, K. and Kaufmann, P. (2014) Lookup table partial reconfiguration for an evolvable hardware classifier system. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1706–1713.
- [232] Pat, A. (2014) Ant colony optimization and hypergraph covering problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1714–1720.
- [233] He, P., Lu, L., Xu, X., Li, K., Qian, H., and Zhang, W. (2014) Confidence-based ant random walks. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1721–1728.
- [234] Kaszkurewicz, E., Bhaya, A., Jayadeva, J., and da Silva, J. M. M. (2014) The coupled EigenAnt algorithm for shortest path problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1729–1735.
- [235] Dawson, L. and Stewart, I. (2014) Accelerating ant colony optimization-based edge detection on the GPU using CUDA. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1736–1743.
- [236] Wu, Z. and Kolonko, M. (2014) Absorption in model-based search algorithms for combinatorial optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1744–1751.
- [237] Mavrovouniotis, M. and Yang, S. (2014) Elitism-based immigrants for ant colony optimization in dynamic environments: Adapting the replacement rate. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1752–1759.
- [238] Mallipeddi, R., Wu, G., Lee, M., and Nagarathnam, S. P. (2014) Gaussian adaptation based parameter adaptation for differential evolution. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1760–1767.
- [239] Salehinejad, H., Rahnamayan, S., and Tizhoosh, H. R. (2014) Toward using type-II opposition in optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1768–1775.
- [240] Liu, H., Wu, Z., Wang, H., Rahnamayan, S., and Deng, C. (2014) Improved differential evolution with adaptive opposition strategy. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1776–1783.
- [241] Angelo, J., Krempser, E., and Barbosa, H. (2014) Differential evolution assisted by a surrogate model for bilevel programming problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1784–1791.
- [242] Minisci, E. and Vasile, M. (2014) Adaptive inflationary differential evolution. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1792–1799.
- [243] Rahnamayan, S., Jesuthasan, J., Bourennani, F., Salehinejad, H., and Naterer, G. F. (2014) Computing opposition by involving entire population. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1800–1807.
- [244] Li, X., He, W., and Hirasawa, K. (2014) Adaptive genetic network programming. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1808–1815.
- [245] Weise, T., Wan, M., Tang, K., and Yao, X. (2014) Evolving exact integer algorithms with genetic programming. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1816–1823.

- [246] Nguyen, S., Zhang, M., and Johnston, M. (2014) A sequential genetic programming method to learn forward construction heuristics for order acceptance and scheduling. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1824–1831.
- [247] Xie, C. and Shang, L. (2014) Anomaly detection in crowded scenes using genetic programming. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1832–1839.
- [248] Yu, Y., Ma, H., and Zhang, M. (2014) A genetic programming approach to distributed QoS-aware web service composition. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1840–1846.
- [249] Kren, T. and Neruda, R. (2014) Generating lambda term individuals in typed genetic programming using forgetful A*. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1847–1854.
- [250] Cota, L. P., Haddad, M. N., Souza, M. J. F., and Coelho, V. N. (2014) AIRP: A heuristic algorithm for solving the unrelated parallel machine scheduling problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1855–1862.
- [251] Grobler, J., Engelbrecht, A. P., Kendall, G., and Yadavalli, V. (2014) Heuristic space diversity management in a meta-hyper-heuristic framework. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1863–1869.
- [252] Sinha, A., Malo, P., and Deb, K. (2014) An improved bilevel evolutionary algorithm based on quadratic approximations. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1870–1877.
- [253] Ke, L. (2014) A cooperative approach between metaheuristic and branch-and-price for the team orienteering problem with time windows. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1878–1882.
- [254] Zheng, Y.-J., Zhang, B., and Cheng, Z. (2014) Hyper-heuristics with penalty parameter adaptation for constrained optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1883–1889.
- [255] Segredo, E., Segura, C., and Leon, C. (2014) Control of numeric and symbolic parameters with a hybrid scheme based on fuzzy logic and hyper-heuristics. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1890–1897.
- [256] Sayed, E., Essam, D., Sarker, R., and Elsayed, S. (2014) A decomposition-based algorithm for dynamic economic dispatch problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1898–1905.
- [257] Ding, J., Song, S., Zhang, R., and Wu, C. (2014) Minimizing makespan for a no-wait flowshop using tabu mechanism improved iterated greedy algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1906–1911.
- [258] Ruello, M., Grimaccia, F., Mussetta, M., and Zich, R. E. (2014) Black-hole PSO and SNO for electromagnetic optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1912–1916.
- [259] Qian, X., Huang, M., Gao, T., and Wang, X. (2014) An improved ant colony algorithm for winner determination in multi-attribute combinatorial reverse auction. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1917–1921.

- [260] Pandiyan, M. (2014) Soft computing techniques based optimal tuning of virtual feedback PID controller for chemical tank reactor. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1922–1928.
- [261] Harrison, K., Ombuki-Berman, B., and Engelbrecht, A. (2014) Dynamic multi-objective optimization using charged vector evaluated particle swarm optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1929–1936.
- [262] Mesa, E., Velasquez, J. D., and Jaramillo, P. (2014) A new self-adaptive PSO based on the identification of planar regions. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1937–1943.
- [263] Tsai, P.-C., Chen, C.-M., and ping Chen, Y. (2014) PSO-based evacuation simulation framework. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1944–1950.
- [264] Bouaziz, S., Alimi, A. M., and Abraham, A. (2014) PSO-based update memory for improved harmony search algorithm to the evolution of FBBFNT’ parameters. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1951–1958.
- [265] Jariyatantiwait, C. and Yen, G. (2014) Fuzzy multiobjective differential evolution using performance metrics feedback. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1959–1966.
- [266] Yuen, S. Y. and Zhang, X. (2014) Multiobjective evolutionary algorithm portfolio: Choosing suitable algorithm for multiobjective optimization problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1967–1973.
- [267] Shang, R., Zhang, K., and Jiao, L. (2014) A novel algorithm for many-objective dimension reductions: Pareto-PCA-NSGA-II. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1974–1981.
- [268] Souza, T., Goldbarg, E., and Goldbarg, M. (2014) An experimental analysis of evolutionary algorithms for the three-objective oil derivatives distribution problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1982–1989.
- [269] Leung, M. F., Ng, S. C., Cheung, C. C., and Lui, A. K. (2014) A new strategy for finding good local guides in MOPSO. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1990–1997.
- [270] Yu, J. J., Li, V. O., and Lam, A. Y. (2014) An inter-molecular adaptive collision scheme for chemical reaction optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 1998–2004.
- [271] Poole, D., Allen, C., and Rendall, T. (2014) Analysis of constraint handling methods for the gravitational search algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2005–2012.
- [272] Cai, Z., Wen, S., and Liu, L. (2014) Distributed wireless sensor scheduling for multi-target tracking based on matrix-coded parallel genetic algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2013–2018.
- [273] Ding, J., Chen, L., Xie, Q., Chai, T., and Zheng, X. (2014) Effect of pseudo gradient on differential evolutionary for global numerical optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2019–2026.

- [274] Li, M., Ji, T., Wu, P., He, S., and Wu, Q. (2014) Protein folding estimation using paired-bacteria optimizer. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2027–2032.
- [275] wei Zheng, X., jie Lu, D., and hua Chen, Z. (2014) A self-adaptive group search optimizer with elitist strategy. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2033–2039.
- [276] Xu, J., Xi, X., and Wang, S. (2014) Optimization based on adaptive hinging hyperplanes and genetic algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2040–2046.
- [277] Zhu, T., Luo, W., and Yue, L. (2014) Combining multipopulation evolutionary algorithms with memory for dynamic optimization problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2047–2054.
- [278] Salehinejad, H., Rahnamayan, S., and Tizhoosh, H. R. (2014) Micro-differential evolution with vectorized random mutation factor. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2055–2062.
- [279] Gao, S., Liu, Z., Dai, C., and Geng, X. (2014) Application of BPSO with GA in model-based fault diagnosis of traction substation. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2063–2069.
- [280] Du, X. and Chang, X. (2014) Performance of AI algorithms for mining meaningful roles. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2070–2076.
- [281] Li, J. and Zhang, J. (2014) Using estimation of distribution algorithm to coordinate decentralized learning automata for meta-task scheduling. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2077–2084.
- [282] Chatbri, H., Kwan, P., and Kameyama, K. (2014) A modular approach for query spotting in document images and its optimization using genetic algorithms. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2085–2092.
- [283] Zhu, X., Luo, W., and Zhu, T. (2014) An improved genetic algorithm for dynamic shortest path problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2093–2100.
- [284] Wu, C.-L., Liu, C.-H., and Ting, C.-K. (2014) A novel genetic algorithm considering measures and phrases for generating melody. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2101–2107.
- [285] Shi, Z., Peng, Y., and Wei, W. (2014) Optimal sizing of DGs and storage for microgrid with interruptible load using improved NSGA-II. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2108–2115.
- [286] R., R. B. (2014) Lion algorithm for standard and large scale bilinear system identification: A global optimization based on lion’s social behavior. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2116–2123.
- [287] Wang, Y. and Yin, J. (2014) Intelligent search optimized edge potential function (EPF) approach to synthetic aperture radar (SAR) scene matching. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2124–2131.
- [288] Wang, Z., Zhang, Q., Gong, M., and Zhou, A. (2014) A replacement strategy for balancing convergence and diversity in MOEA/D. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2132–2139.

- [289] Li, M., Yang, S., and Liu, X. (2014) A test problem for visual investigation of high-dimensional multi-objective search. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2140–2147.
- [290] Menchaca-Mendez, A. and Coello, C. A. C. (2014) MD-MOEA : A new MOEA based on the maximin fitness function and Euclidean distances between solutions. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2148–2155.
- [291] Li, H., Zhang, Q., and Deng, J. (2014) Multiobjective test problems with complicated Pareto fronts: Difficulties in degeneracy. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2156–2163.
- [292] Souza, L., Prudencio, R., and Barros, F. (2014) A comparison study of binary multi-objective particle swarm optimization approaches for test case selection. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2164–2171.
- [293] Pilat, M. and Neruda, R. (2014) The effect of different local search algorithms on the performance of multi-objective optimizers. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2172–2179.
- [294] Ali, M., Morghem, A., AlBadarneh, J., Al-Gharaibeh, R., Suganthan, P., and Reynolds, R. (2014) Cultural algorithms applied to the evolution of robotic soccer team tactics: A novel perspective. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2180–2187.
- [295] Juan, T., Jose, A., and Mariela, C. (2014) Cultural learning for multi-agent system and its application to fault management. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2188–2195.
- [296] Stanley, S., Palazzolo, T., and Warnke, D. (2014) Analyzing prehistoric hunter behavior with cultural algorithms. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2196–2205.
- [297] Judeh, T., Jayyousi, T., Acharya, L., Reynolds, R., and Zhu, D. (2014) GSCA: Reconstructing biological pathway topologies using a cultural algorithms approach. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2206–2213.
- [298] Che, X. and Reynolds, R. (2014) A social metrics based process model on complex social system. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2214–2221.
- [299] Zhang, B., Shafi, K., and Abbass, H. (2014) Online knowledge-based evolutionary multi-objective optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2222–2229.
- [300] Polakova, R., Tvrdik, J., and Bujok, P. (2014) Controlled restart in differential evolution applied to CEC2014 benchmark functions. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2230–2236.
- [301] Dhebar, Y., Deb, K., and Bandaru, S. (2014) Non-uniform mapping in real-coded genetic algorithms. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2237–2244.
- [302] Philippe, P., Remi, M., and Michal, V. (2014) Bandits attack function optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2245–2252.

- [303] Bujok, P., Tvrdik, J., and Polakova, R. (2014) Differential evolution with rotation-invariant mutation and competing-strategies adaptation. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2253–2258.
- [304] Hu, Z., Bao, Y., and Xiong, T. (2014) Partial opposition-based adaptive differential evolution algorithms: Evaluation on the CEC 2014 benchmark set for real-parameter optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2259–2265.
- [305] Liang, J. J., Qu, B. Y., Song, H., and Shang, Z. G. (2014) Memetic differential evolution based on fitness Euclidean-distance ratio. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2266–2273.
- [306] Campbell, A., Ciesielski, V., and Trist, K. (2014) A self organising map based method for understanding features associated with high aesthetic value evolved abstract images. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2274–2281.
- [307] de Vega, F. F., Garcia-Valdez, M., Navarro, L., Cruz, C., Hernandez, P., Gallego, T., and Albarran, J. V. (2014) When artists met Evospace-i. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2282–2289.
- [308] Sephton, N., Cowling, P., Powley, E., Whitehouse, D., and Slaven, N. (2014) Parallelization of information set Monte Carlo tree search. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2290–2297.
- [309] Wang, S., Gain, J., and Nitschke, G. (2014) Comparing crossover operators in neuro-evolution with crowd simulations. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2298–2305.
- [310] Davila, J. (2014) Genotype coding, diversity, and dynamic environments: A study on an evolutionary neural network multi-agent system. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2306–2313.
- [311] Perez, D., Powley, E., Whitehouse, D., Samothrakis, S., Lucas, S., and Cowling, P. (2014) The 2013 multi-objective physical travelling salesman problem competition. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2314–2321.
- [312] Shao, H., Abielmona, R., Falcon, R., and Japkowicz, N. (2014) Vessel track correlation and association using fuzzy logic and echo state networks. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2322–2329.
- [313] Wang, X., Liu, X., Japkowicz, N., and Matwin, S. (2014) Automatic target recognition using multiple-aspect sonar images. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2330–2337.
- [314] Yu, J. J. and Li, V. O. (2014) Base station switching problem for green cellular networks with social spider algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2338–2344.
- [315] Wang, Z., Gong, M., Cai, Q., Ma, L., and Jiao, L. (2014) Deployment optimization of near space airships based on MOEA/D with local search. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2345–2352.
- [316] Tung, H.-Y., Ma, W.-C., and Yu, T.-L. (2014) Novel traffic signal timing adjustment strategy based on genetic algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2353–2360.

- [317] Mauser, I., Dorscheid, M., Allerdig, F., and Schmeck, H. (2014) Encodings for evolutionary algorithms in smart buildings with energy management systems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2361–2366.
- [318] Mayo, M. and Sun, Q. (2014) Evolving artificial datasets to improve interpretable classifiers. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2367–2374.
- [319] Varela, G., Caamano, P., Orjales, F., Deibe, A., Lopez-Pena, F., and Duro, R. (2014) Differential evolution in constrained sampling problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2375–2382.
- [320] Plagianakos, V. (2014) Unsupervised clustering and multi-optima evolutionary search. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2383–2390.
- [321] Qiu, X., Xu, J., and Tan, K. C. (2014) A novel differential evolution (DE) algorithm for multi-objective optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2391–2396.
- [322] St-Pierre, D. L. and Liu, J. (2014) Differential evolution algorithm applied to non-stationary bandit problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2397–2403.
- [323] Kazimipour, B., Li, X., and Qin, A. (2014) Effects of population initialization on differential evolution for large scale optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2404–2411.
- [324] vanden Broucke, S., Vanthienen, J., and Baesens, B. (2014) Declarative process discovery with evolutionary computing. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2412–2419.
- [325] Burattin, A., Sperduti, A., and van der Aalst, W. M. P. (2014) Control-flow discovery from event streams. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2420–2427.
- [326] Low, W., Weerdt, J. D., Wynn, M., ter Hofstede, A., van der Aalst, W., and vanden Broucke, S. (2014) Perturbing event logs to identify cost reduction opportunities: A genetic algorithm-based approach. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2428–2435.
- [327] Martins, L., Nobre, R., Delbem, A., Marques, E., and Cardoso, J. (2014) A clustering-based approach for exploring sequences of compiler optimizations. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2436–2443.
- [328] Yoshida, T. and Yoshikawa, T. (2014) A study on non-correspondence in spread between objective space and design variable space for trajectory designing optimization problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2444–2450.
- [329] Agapitos, A., O’Neill, M., and Brabazon, A. (2014) Ensemble Bayesian model averaging in genetic programming. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2451–2458.
- [330] Ceberio, J., Irurozki, E., Mendiburu, A., and Lozano, J. A. (2014) Extending distance-based ranking models in estimation of distribution algorithms. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2459–2466.

- [331] Wang, B., Xu, H., and Yuan, Y. (2014) Quantum-inspired evolutionary algorithm with linkage learning. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2467–2474.
- [332] Wang, S.-M., Tung, Y.-F., and Yu, T.-L. (2014) Investigation on efficiency of optimal mixing on various linkage sets. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2475–2482.
- [333] Liao, Q., Zhou, A., and Zhang, G. (2014) A locally weighted metamodel for pre-selection in evolutionary optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2483–2490.
- [334] Su, Y.-E. and Yu, T.-L. (2014) Use model building on discretization algorithms for discrete EDAs to work on real-valued problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2491–2498.
- [335] Kattan, A., Kampouridis, M., Ong, Y.-S., and Mehamdi, K. (2014) Transformation of input space using statistical moments: EA-based approach. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2499–2506.
- [336] Malan, K. and Engelbrecht, A. (2014) A progressive random walk algorithm for sampling continuous fitness landscapes. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2507–2514.
- [337] Alanazi, F. and Lehre, P. K. (2014) Runtime analysis of selection hyper-heuristics with classical learning mechanisms. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2515–2523.
- [338] Cleghorn, C. and Engelbrecht, A. (2014) Particle swarm convergence: An empirical investigation. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2524–2530.
- [339] Ma, J., Zhang, J., Wang, W., and Yao, J. (2014) Phase transition particle swarm optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2531–2538.
- [340] Zhang, K., Weise, T., and Li, J. (2014) Fitness level based adaptive operator selection for cutting stock problems with contiguity. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2539–2546.
- [341] Klazar, R. and Engelbrecht, A. (2014) Parameter optimization by means of statistical quality guides in F-Race. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2547–2552.
- [342] Zhang, L. and He, R. (2014) A globally diversified island model PGA for multimodal optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2553–2561.
- [343] Pereira, M., Roisenberg, M., and Neto, G. (2014) A topological niching covariance matrix adaptation for multimodal optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2562–2569.
- [344] Vafaei, F., Turan, G., Nelson, P., and Berger-Wolf, T. (2014) Balancing the exploration and exploitation in an adaptive diversity guided genetic algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2570–2577.
- [345] Peng, X., Lei, X., and Liu, K. (2014) Compensate information from multimodal dynamic landscapes: An anti-pathology cooperative coevolutionary algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2578–2584.

- [346] Kazimipour, B., Li, X., and Qin, A. (2014) A review of population initialization techniques for evolutionary algorithms. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2585–2592.
- [347] Fieldsend, J. (2014) Running up those hills: Multi-modal search with the niching migratory multi-swarm optimiser. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2593–2600.
- [348] Zhu, L., Deb, K., and Kulkarni, S. (2014) Multi-scenario optimization using multi-criterion methods: A case study on Byzantine agreement problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2601–2608.
- [349] Smith, C., Doherty, J., and Jin, Y. (2014) Multi-objective evolutionary recurrent neural network ensemble for prediction of computational fluid dynamic simulations. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2609–2616.
- [350] Wesolkowski, S., Francetic, N., and Grant, S. (2014) TraDE: Training device selection via multi-objective optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2617–2624.
- [351] Abdul, W., Xiaoying, G., and Peter, A. (2014) Multi-view clustering of web documents using multi-objective genetic algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2625–2632.
- [352] Masuda, H., Nojima, Y., and Ishibuchi, H. (2014) Visual examination of the behavior of EMO algorithms for many-objective optimization with many decision variables. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2633–2640.
- [353] Hu, W., Yen, G., and Zhang, X. (2014) Sensitivity analysis of parallel cell coordinate system in many-objective particle swarm optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2641–2648.
- [354] Maia, R., de Castro, L., and Caminhas, W. (2014) Real-parameter optimization with OptBees. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2649–2655.
- [355] Shan, H., Yasuda, T., and Ohkura, K. (2014) A Levy flight-based hybrid artificial bee colony algorithm for solving numerical optimization problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2656–2663.
- [356] Ding, K. and Tan, Y. (2014) Comparison of random number generators in particle swarm optimization algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2664–2671.
- [357] Chen, L., Liu, H.-L., Zheng, Z., and Xie, S. (2014) A evolutionary algorithm based on covariance matrix leaning and searching preference for solving CEC 2014 benchmark problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2672–2677.
- [358] Leite, V., Silva, C., Claro, J., and Sousa, J. M. C. (2014) Optimization of power flow with energy storage using genetic algorithms. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2678–2684.
- [359] Yang, Z., Li, K., Foley, A., and Zhang, C. (2014) A new self-learning TLBO algorithm for RBF neural modelling of batteries in electric vehicles. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2685–2691.

- [360] Richter, H. (2014) Codynamic fitness landscapes of coevolutionary minimal substrates. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2692–2699.
- [361] Dick, G. and Yao, X. (2014) Model representation and cooperative coevolution for finite-state machine evolution. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2700–2707.
- [362] Wu, S.-Y. and Liu, J.-S. (2014) Evolutionary path planning of a data mule in wireless sensor network by using shortcuts. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2708–2715.
- [363] Karim, M. R. and Mouhoub, M. (2014) Coevolutionary genetic algorithm for variable ordering in CSPs. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2716–2723.
- [364] Menendez, H. D., Barrero, D. F., and Camacho, D. (2014) A co-evolutionary multi-objective approach for a k-adaptive graph-based clustering algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2724–2731.
- [365] Bidlo, M. (2014) Evolving multiplication as emergent behavior in cellular automata using conditionally matching rules. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2732–2739.
- [366] Menendez, H. D., Plaza, L., and Camacho, D. (2014) Combining graph connectivity and genetic clustering to improve biomedical summarization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2740–2747.
- [367] Datta, S., Rakshit, P., Konar, A., and Nagar, A. K. (2014) Selecting the optimal EEG electrode positions for a cognitive task using an artificial bee colony with adaptive scale factor optimization algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2748–2755.
- [368] Ahmed, S., Zhang, M., and Peng, L. (2014) A new GP-based wrapper feature construction approach to classification and biomarker identification. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2756–2763.
- [369] Byrne, J., Nicolau, M., Brabazon, A., and O'Neill, M. (2014) An examination of synchronisation in artificial gene regulatory networks. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2764–2769.
- [370] Soncco-Alvarez, J. L. and Ayala-Rincon, M. (2014) Memetic algorithm for sorting unsigned permutations by reversals. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2770–2777.
- [371] Fogel, G., Liu, E., Salemi, M., Lamers, S., and McGrath, M. (2014) Evolved neural networks for HIV-1 co-receptor identification. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2778–2784.
- [372] Mario, E. D., Navarro, I., and Martinoli, A. (2014) Analysis of fitness noise in particle swarm optimization: From robotic learning to benchmark functions. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2785–2792.
- [373] Pretorius, C., du Plessis, M., and Gonsalves, J. (2014) A comparison of neural networks and physics models as motion simulators for simple robotic evolution. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2793–2800.

- [374] Moshaiov, A. and Tal, A. (2014) Family bootstrapping: A genetic transfer learning approach for onsetting the evolution for a set of related robotic tasks. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2801–2808.
- [375] Moshaiov, A. and Abramovich, O. (2014) Is MO-CMA-ES superior to NSGA-II for the evolution of multi-objective neuro-controllers? Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2809–2816.
- [376] Dornberger, R., Hanne, T., Ryter, R., and Michael, S. (2014) Optimization of the picking sequence of an automated storage and retrieval system (AS/RS). Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2817–2824.
- [377] Alam, K., Ray, T., and Anavatti, S. G. (2014) Practical application of an evolutionary algorithm for the design and construction of a six-inch submarine. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2825–2832.
- [378] Kazimipour, B., Omidvar, M. N., Li, X., and Qin, A. (2014) A novel hybridization of opposition-based learning and cooperative co-evolutionary for large-scale optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2833–2840.
- [379] Cooper, I., John, M., Lewis, R., Olden, A., and Mumford, C. (2014) Optimising large scale public transport network design problems using mixed-mode parallel multi-objective evolutionary algorithms. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2841–2848.
- [380] Watanabe, T., Tatsukawa, T., Jaimes, A. L., Aono, H., Nonomura, T., Oyama, A., and Fujii, K. (2014) Many-objective evolutionary computation for optimization of separated-flow control using a DBD plasma actuator. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2849–2854.
- [381] Lin, L., Mitsuo, G., and Yan, L. (2014) A hybrid EA for high-dimensional subspace clustering problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2855–2860.
- [382] yu Du, M., juan Lei, X., and qiang Wu, Z. (2014) A simplified glowworm swarm optimization algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2861–2868.
- [383] Li, B., Li, J., Tang, K., and Yao, X. (2014) An improved two archive algorithm for many-objective optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2869–2876.
- [384] Xiao, Y., Trefzer, M., Walker, J., Bale, S., and Tyrrell, A. (2014) Two step evolution strategy for device motif BSIM model parameter extraction. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2877–2884.
- [385] Wagner, M. (2014) Maximising axiomatization coverage and minimizing regression testing time. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2885–2892.
- [386] Huo, Y., Cai, Z., Gong, W., and Liu, Q. (2014) A new adaptive kalman filter by combining evolutionary algorithm and fuzzy inference system. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2893–2900.
- [387] Sekanina, L., Ptak, O., and Vasicek, Z. (2014) Cartesian genetic programming as local optimizer of logic networks. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2901–2908.

- [388] Donne, S., Nicolau, M., Bean, C., and O'Neill, M. (2014) Wave height quantification using land based seismic data with grammatical evolution. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2909–2916.
- [389] Xie, F., Song, A., and Ciesielski, V. (2014) Genetic programming based activity recognition on a smartphone sensory data benchmark. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2917–2924.
- [390] Janecek, A., Jordan, T., and de Lima-Neto, F. B. (2014) Swarm/evolutionary intelligence for agent-based social simulation. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2925–2932.
- [391] Zan, D. and Jaros, J. (2014) Solving the multidimensional knapsack problem using a CUDA accelerated PSO. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2933–2939.
- [392] Runkler, T. and Bezdek, J. (2014) Multidimensional scaling with multiswarming. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2940–2946.
- [393] Metlicka, M. and Davendra, D. (2014) Chaos-driven discrete artificial bee colony. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2947–2954.
- [394] Alam, S., Dobbie, G., Koh, Y. S., and Riddle, P. (2014) Web bots detection using particle swarm optimization based clustering. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2955–2962.
- [395] Wu, C.-W., Chiang, T.-C., and Fu, L.-C. (2014) An ant colony optimization algorithm for multi-objective clustering in mobile ad hoc networks. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2963–2968.
- [396] Adriaensen, S., Brys, T., and Nowe, A. (2014) Designing reusable metaheuristic methods: A semi-automated approach. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2969–2976.
- [397] Enaya, Y. and Deb, K. (2014) Network path optimization under dynamic conditions. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2977–2984.
- [398] Brent, O., Thiruvady, D., Gomez-Iglesias, A., and Garcia-Flores, R. (2014) A parallel Lagrangian-ACO heuristic for project scheduling. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2985–2991.
- [399] Masi, L. and Vasile, M. (2014) A multidirectional Physarum solver for the automated design of space trajectories. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 2992–2999.
- [400] Xie, J., Mei, Y., Ernst, A., Li, X., and Song, A. (2014) A genetic programming-based hyper-heuristic approach for storage location assignment problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3000–3007.
- [401] Burman, R., Das, S., Haque, Z., Vasilakos, A. V., and Chakraborti, S. (2014) The monarchy driven optimization algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3008–3015.
- [402] Jin, N. and Yao, X. (2014) Heuristic optimization for software project management with impacts of team efficiency. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3016–3023.

- [403] Wang, Q., Li, H., Gong, M., Su, L., and Jiao, L. (2014) A multiobjective optimization method based on MOEA/D and fuzzy clustering for change detection in SAR images. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3024–3029.
- [404] Tsai, P.-C., Chen, C.-M., and ping Chen, Y. (2014) A novel evaluation function for LT codes degree distribution optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3030–3035.
- [405] Triguero, I., Peralta, D., Bacardit, J., Garcia, S., and Herrera, F. (2014) A combined MapReduce-windowing two-level parallel scheme for evolutionary prototype generation. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3036–3043.
- [406] Gu, L., Yang, P., and Dong, Y. (2014) A dynamic-weighted collaborative filtering approach to address sparsity and adaptivity issues. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3044–3050.
- [407] Reid, S., Malan, K., and Engelbrecht, A. (2014) Carry trade portfolio optimization using particle swarm optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3051–3058.
- [408] reza Bonyadi, M. and Michalewicz, Z. (2014) On the edge of feasibility: A case study of the particle swarm optimizer. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3059–3066.
- [409] Dong, W. and Zeng, S. (2014) Linear sparse arrays designed by dynamic constrained multi-objective evolutionary algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3067–3072.
- [410] Si, C., Shen, J., Zou, X., Wang, L., and Wu, Q. (2014) Mapping constrained optimization problems to penalty parameters: An empirical study. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3073–3079.
- [411] Singh, P., Couckuyt, I., Ferranti, F., and Dhaene, T. (2014) A constrained multi-objective surrogate-based optimization algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3080–3087.
- [412] Poursoltan, S. and Neumann, F. (2014) A feature-based analysis on the impact of linear constraints for e-constrained differential evolution. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3088–3095.
- [413] Ki-Baek, L. and Jong-Hwan, K. (2014) DMOPSO: Dual multi-objective particle swarm optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3096–3102.
- [414] Cheng, R. and Jin, Y. (2014) Demonstrator selection in a social learning particle swarm optimizer. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3103–3110.
- [415] Nguyen, B. H., Xue, B., Liu, I., and Zhang, M. (2014) Filter based backward elimination in wrapper based PSO for feature selection in classification. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3111–3118.
- [416] Xue, B., Qin, A. K., and Zhang, M. (2014) An archive based particle swarm optimisation for feature selection in classification. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3119–3126.

- [417] da Silva, A. S., Ma, H., and Zhang, M. (2014) A graph-based particle swarm optimisation approach to QoS-aware web service composition and selection. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3127–3134.
- [418] Hardhienata, M., Ugrinovskii, V., and Merrick, K. (2014) Task allocation under communication constraints using motivated particle swarm optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3135–3142.
- [419] McNabb, A. and Seppi, K. (2014) Serial PSO results are irrelevant in a multi-core parallel world. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3143–3150.
- [420] Helbig, M. and Engelbrecht, A. (2014) Heterogeneous dynamic vector evaluated particle swarm optimisation for dynamic multi-objective optimisation. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3151–3159.
- [421] Liu, M., Zheng, J., Wang, J., Liu, Y., and Jiang, L. (2014) An adaptive diversity introduction method for dynamic evolutionary multiobjective optimization. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3160–3167.
- [422] Azzouz, R., Bechikh, S., and Said, L. B. (2014) A multiple reference point-based evolutionary algorithm for dynamic multi-objective optimization with undetectable changes. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3168–3175.
- [423] Rakshit, P., Konar, A., and Nagar, A. (2014) Artificial bee colony induced multi-objective optimization in presence of noise. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3176–3183.
- [424] Friedrich, T. and Menzel, S. (2014) A cascaded evolutionary multi-objective optimization for solving the unbiased universal electric motor family problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3184–3191.
- [425] Biswas, S., Das, S., Suganthan, P. N., and Coello, C. A. C. (2014) Evolutionary multiobjective optimization in dynamic environments: A set of novel benchmark functions. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3192–3199.
- [426] Zhang, B., Zhang, M.-X., and Zheng, Y.-J. (2014) A hybrid biogeography-based optimization and fireworks algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3200–3206.
- [427] Liu, J., Zheng, S., and Tan, Y. (2014) Analysis on global convergence and time complexity of fireworks algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3207–3213.
- [428] Li, J., Zheng, S., and Tan, Y. (2014) Adaptive fireworks algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3214–3221.
- [429] Zheng, S., Janeczek, A., Li, J., and Tan, Y. (2014) Dynamic search in fireworks algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3222–3229.
- [430] Cheng, S., Shi, Y., Qin, Q., Ting, T. O., and Bai, R. (2014) Maintaining population diversity in brain storm optimization algorithm. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3230–3237.

- [431] Yu, C., Kelley, L., Zheng, S., and Tan, Y. (2014) Fireworks algorithm with differential mutation for solving the CEC 2014 competition problems. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3238–3245.
- [432] Ivan, Z., Jouni, L., Roman, S., Michal, P., and Donald, D. (2014) Evolutionary algorithms dynamics and its hidden complex network structures. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3246–3251.
- [433] Suzuki, M., Tsuruta, S., Knauf, R., and Sakurai, Y. (2014) Knowledge acquisition issues for intelligent route optimization by evolutionary computation. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3252–3257.
- [434] Menezes, M., Goldberg, M., and Goldberg, E. (2014) A memetic algorithm for the prize collecting traveling car renter problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3258–3265.
- [435] Wu, M., Karkar, A., Liu, B., Yakovlev, A., and Gielen, G. (2014) Network on chip optimization based on surrogate model assisted evolutionary algorithms. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3266–3271.
- [436] Liao, X.-L., Chien, C.-H., and Ting, C.-K. (2014) A genetic algorithm for the minimum latency pickup and delivery problem. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3272–3279.
- [437] Weiszer, M., Chen, J., Ravizza, S., Atkin, J., and Stewart, P. (2014) A heuristic approach to greener airport ground movement. Coello Coello, C. A. (ed.), *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, Beijing, China, 6-11 July, pp. 3280–3286.