Список литературы

- [AAMMCR14] Maria-Yaneli Ameca-Alducin, Efren Mezura-Montes, and Nicandro Cruz-Ramirez. Differential evolution with combined variants for dynamic constrained optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 975–982, Beijing, China, 6-11 July 2014.
- [ABM14] Marcos Alvares, Fernando Buarque, and Tshilidzi Marwala. Application of computational intelligence for source code classification. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 895–902, Beijing, China, 6-11 July 2014.
- [ABN14] Steven Adriaensen, Tim Brys, and Ann Nowe. Designing reusable metaheuristic methods: A semi-automated approach. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2969–2976, Beijing, China, 6-11 July 2014.
- [ABS14] Radhia Azzouz, Slim Bechikh, and Lamjed Ben Said. A multiple reference point-based evolutionary algorithm for dynamic multi-objective optimization with undetectable changes. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3168–3175, Beijing, China, 6-11 July 2014.
- [ADGLFA14] Nancy Arana-Daniel, Alberto A. Gallegos, Carlos Lopez-Franco, and Alma Y. Alanis. Smooth global and local path planning for mobile robot using particle swarm optimization, radial basis functions, splines and Bezier curves. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 175–182, Beijing, China, 6-11 July 2014.
- [ADKR14] Shafiq Alam, Gillian Dobbie, Yun Sing Koh, and Patricia Riddle. Web bots detection using particle swarm optimization based clustering. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2955–2962, Beijing, China, 6-11 July 2014.
- [AH14] Daniel Ashlock and Philip Hingston. *Tego a framework for adversarial planning. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 13–20, Beijing, China, 6-11 July 2014.
- [AIV14] Giovanni Acampora, Hisao Ishibuchi, and Autilia Vitiello. A comparison of multiobjective evolutionary algorithms for the ontology meta-matching problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary* Computation, pages 413–420, Beijing, China, 6-11 July 2014.
- [AJB14] Wissam A. Albukhanajer, Yaochu Jin, and Johann A. Briffa. Neural network ensembles for image identification using Pareto-optimal features. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 89–96, Beijing, China, 6-11 July 2014.
- [AKB14] Jaqueline Angelo, Eduardo Krempser, and Helio Barbosa. Differential evolution assisted by a surrogate model for bilevel programming problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1784–1791, Beijing, China, 6-11 July 2014.
- [AL14a] Johanna Aalto and Jouni Lampinen. A mutation and crossover adaptation mechanism for differential evolution algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 451–458, Beijing, China, 6-11 July 2014.
- [AL14b] Fawaz Alanazi and Per Kristian Lehre. Runtime analysis of selection hyper-heuristics with classical learning mechanisms. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2515–2523, Beijing, China, 6-11 July 2014.

- [AMA⁺14] Mostafa Ali, Abdulmalik Morghem, Jafar AlBadarneh, Rami Al-Gharaibeh, Ponnuthurai Suganthan, and Robert Reynolds. Cultural algorithms applied to the evolution of robotic soccer team tactics: A novel perspective. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2180–2187, Beijing, China, 6-11 July 2014.
- [AOB14] Alexandros Agapitos, Michael O'Neill, and Anthony Brabazon. Ensemble Bayesian model averaging in genetic programming. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2451–2458, Beijing, China, 6-11 July 2014.
- [AR14] Mohammad Riyad Ameerudden and Harry Rughooputh. Smart hybrid genetic algorithms in the bandwidth optimization of a PIFA antenna. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1390–1396, Beijing, China, 6-11 July 2014.
- [ARA14] Khairul Alam, Tapabrata Ray, and Sreenatha G. Anavatti. Practical application of an evolutionary algorithm for the design and construction of a six-inch submarine. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2825–2832, Beijing, China, 6-11 July 2014.
- [AS14] Shakhnaz Akhmedova and Eugene Semenkin. Co-operation of biology related algorithms meta-heuristic in ANN-based classifiers design. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 867–872, Beijing, China, 6-11 July 2014.
- [ATE⁺14] Rubai Amin, Jiangjun Tang, Mohamed Ellejmi, Stephen Kirby, and Hussein A. Abbass. Trading-off simulation fidelity and optimization accuracy in air-traffic experiments using differential evolution. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 475–482, Beijing, China, 6-11 July 2014.
- [AV14] Simone Alicino and Massimiliano Vasile. An evolutionary approach to the solution of multi-objective min-max problems in evidence-based robust optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1179–1186, Beijing, China, 6-11 July 2014.
- [AXP14] Wahid Abdul, Gao Xiaoying, and Andreae Peter. Multi-view clustering of web documents using multi-objective genetic algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2625–2632, Beijing, China, 6-11 July 2014.
- [AZ14] Ahmad Alhindi and Qingfu Zhang. MOEA/D with tabu search for multiobjective permutation flow shop scheduling problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1155–1164, Beijing, China, 6-11 July 2014.
- [AZP14] Soha Ahmed, Mengjie Zhang, and Lifeng Peng. A new GP-based wrapper feature construction approach to classification and biomarker identification. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2756–2763, Beijing, China, 6-11 July 2014.
- [BAA14] Souhir Bouaziz, Adel M. Alimi, and Ajith Abraham. PSO-based update memory for improved harmony search algorithm to the evolution of FBBFNT' parameters. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1951–1958, Beijing, China, 6-11 July 2014.
- [BBK14] Andrew Buck, Tanvi Banerjee, and James Keller. Evolving a fuzzy goal-driven strategy for the game of Geister. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 28–35, Beijing, China, 6-11 July 2014.

- [BDH⁺14] Ritambhar Burman, Swagatam Das, Zheshanul Haque, Athanasios V. Vasilakos, and Soumyadip Chakraborti. The monarchy driven optimization algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3008–3015, Beijing, China, 6-11 July 2014.
- [BDSC14] Subhodip Biswas, Swagatam Das, P. N. Suganthan, and C. A. C Coello. Evolutionary multiobjective optimization in dynamic environments: A set of novel benchmark functions. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3192–3199, Beijing, China, 6-11 July 2014.
- [BEDV14] Subhodip Biswas, Mohammad A. Eita, Swagatam Das, and Athanasios V. Vasilakos. Evaluating the performance of group counseling optimizer on CEC 2014 problems for computational expensive optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1076–1083, Beijing, China, 6-11 July 2014.
- [Bid14] Michal Bidlo. Evolving multiplication as emergent behavior in cellular automata using conditionally matching rules. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2732–2739, Beijing, China, 6-11 July 2014.
- [BLZ14] Chenyang Bu, Wenjian Luo, and Tao Zhu. Differential evolution with a species-based repair strategy for constrained optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 967–974, Beijing, China, 6-11 July 2014.
- [BNBO14] Jonathan Byrne, Miguel Nicolau, Anthony Brabazon, and Michael O'Neill. An examination of synchronisation in artificial gene regulatory networks. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2764–2769, Beijing, China, 6-11 July 2014.
- [BND14] Sunith Bandaru, Amos Ng, and Kalyanmoy Deb. On the performance of classification algorithms for learning Pareto-dominance relations. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1139–1146, Beijing, China, 6-11 July 2014.
- [BNZ14] Stephen Bennett, Su Nguyen, and Mengjie Zhang. A hybrid discrete particle swarm optimisation method for grid computation scheduling. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 483–490, Beijing, China, 6-11 July 2014.
- [BOC14] Gema Bello-Orgaz and David Camacho. Evolutionary clustering algorithm for community detection using graph-based information. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 930–937, Beijing, China, 6-11 July 2014.
- [BRC14] Antonio Bolufe-Rohler and Stephen Chen. Extending minimum population search towards large scale global optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 845–852, Beijing, China, 6-11 July 2014.
- [BRN14] Farid Bourennani, Shahryar Rahnamayan, and Greg F. Naterer. Multi-objective differential evolution with leadership enhancement (MODEL). In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1131–1138, Beijing, China, 6-11 July 2014.
- [BSvdA14] Andrea Burattin, Alessandro Sperduti, and Wil M. P. van der Aalst. Control-flow discovery from event streams. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2420–2427, Beijing, China, 6-11 July 2014.

- [BT14] Onder Bulut and M. Fatih Tasgetiren. A discrete artificial bee colony algorithm for the economic lot scheduling problem with returns. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 551–557, Beijing, China, 6-11 July 2014.
- [BTGIGF14] Oswyn Brent, Dhananjay Thiruvady, Antonio Gomez-Iglesias, and Rodolfo Garcia-Flores. A parallel Lagrangian-ACO heuristic for project scheduling. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2985–2991, Beijing, China, 6-11 July 2014.
- [BTP14] Petr Bujok, Josef Tvrdik, and Radka Polakova. Differential evolution with rotation-invariant mutation and competing-strategies adaptation. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2253–2258, Beijing, China, 6-11 July 2014.
- [BWvB14] Ties Brands, Luc Wismans, and Eric van Berkum. Multi-objective transportation network design: Accelerating search by applying e-NSGAII. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 405–412, Beijing, China, 6-11 July 2014.
- [CAH14] Alexandre Chotard, Anne Auger, and Nikolaus Hansen. Markov chain analysis of evolution strategies on a linear constraint optimization problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 159–166, Beijing, China, 6-11 July 2014.
- [CC14] Shao-Wen Chen and Tsung-Che Chiang. Evolutionary many-objective optimization by MO-NSGA-II with enhanced mating selection. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1397–1404, Beijing, China, 6-11 July 2014.
- [CCB14] Tianxiang Cui, Shi Cheng, and Ruibin Bai. A combinatorial algorithm for the cardinality constrained portfolio optimization problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 491–498, Beijing, China, 6-11 July 2014.
- [CCLC14] Chun-Hua Chou, Huang Chia-Ling, and Po-Chun Chang. A RFID network design methodology for decision problem in health care. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1586–1592, Beijing, China, 6-11 July 2014.
- [CCT14] Allan Campbell, Vic Ciesielski, and Karen Trist. A self organising map based method for understanding features associated with high aesthetic value evolved abstract images. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2274–2281, Beijing, China, 6-11 July 2014.
- [CD14] Yiqiao Cai and Jixiang Du. Enhanced differential evolution with adaptive direction information. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 305–312, Beijing, China, 6-11 July 2014.
- [CE14] Christopher Cleghorn and Andries Engelbrecht. Particle swarm convergence: An empirical investigation. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2524–2530, Beijing, China, 6-11 July 2014.
- [CF14] Luiz Carvalho and Marcia Fernandes. Multi-objective flexible job-shop scheduling problem with DIPSO: More diversity, greater efficiency. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 282–289, Beijing, China, 6-11 July 2014.

- [CGCAM14] Ivan Chaman-Garcia, Carlos Coello Coello, and Alfredo Arias-Montano. MOPSOhv: A new hypervolume-based multi-objective particle swarm optimizer. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 266–273, Beijing, China, 6-11 July 2014.
- [CH14] Po-Chun Chang and Xiangjian He. Macroscopic indeterminacy swarm optimization (MISO) algorithm for real-parameter search. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 1571–1578, Beijing, China, 6-11 July 2014.
- [CHSC14] Luciano Perdigao Cota, Matheus Nohra Haddad, Marcone Jamilson Freitas Souza, and Vitor Nazario Coelho. AIRP: A heuristic algorithm for solving the unrelated parallel machine scheduling problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1855–1862, Beijing, China, 6-11 July 2014.
- [CIML14] Josu Ceberio, Ekhine Irurozki, Alexander Mendiburu, and Jose A. Lozano. Extending distance-based ranking models in estimation of distribution algorithms. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2459–2466, Beijing, China, 6-11 July 2014.
- [CJ14] Ran Cheng and Yaochu Jin. Demonstrator selection in a social learning particle swarm optimizer. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3103–3110, Beijing, China, 6-11 July 2014.
- [CJL⁺14] Ian Cooper, Matthew John, Rhydian Lewis, Andrew Olden, and Christine Mumford. Optimising large scale public transport network design problems using mixed-mode parallel multi-objective evolutionary algorithms. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2841–2848, Beijing, China, 6-11 July 2014.
- [CK14] Mauro Campos and Renato Krohling. Bare bones particle swarm with scale mixtures of Gaussians for dynamic constrained optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 202–209, Beijing, China, 6-11 July 2014.
- [CKK14] Houssem Chatbri, Paul Kwan, and Keisuke Kameyama. A modular approach for query spotting in document images and its optimization using genetic algorithms. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2085–2092, Beijing, China, 6-11 July 2014.
- [CLZ14] Gang Chen, Wenjian Luo, and Tao Zhu. Evolutionary clustering with differential evolution. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1382–1389, Beijing, China, 6-11 July 2014.
- [CLZX14] Lei Chen, Hai-Lin Liu, Zhe Zheng, and Shengli Xie. A evolutionary algorithm based on covariance matrix leaning and searching preference for solving CEC 2014 benchmark problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2672–2677, Beijing, China, 6-11 July 2014.
- [CPL14] Peng Cheng, Jeng-Shyang Pan, and Chun-Wei Lin. Use EMO to protect sensitive knowledge in association rule mining by removing items. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1108–1115, Beijing, China, 6-11 July 2014.
- [CR14] Xiangdong Che and Robert Reynolds. A social metrics based process model on complex social system. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2214–2221, Beijing, China, 6-11 July 2014.

- [CRKN14] Archana Chowdhury, Pratyusha Rakshit, Amit Konar, and Atulya Nagar. A modified bat algorithm to predict protein-protein interaction network. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1046–1053, Beijing, China, 6-11 July 2014.
- [CRRM14] Kit Yan Chan, N. Rajakaruna, C. Rathnayake, and I. Murray. Image deblurring using a hybrid optimization algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1243–1249, Beijing, China, 6-11 July 2014.
- [CSQ⁺14] Shi Cheng, Yuhui Shi, Quande Qin, T. O. Ting, and Ruibin Bai. Maintaining population diversity in brain storm optimization algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3230–3237, Beijing, China, 6-11 July 2014.
- [CSX14] Yan Chen, Yi Shang, and Dong Xu. Multi-dimensional scaling and MODELLER-based evolutionary algorithms for protein model refinement. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1038–1045, Beijing, China, 6-11 July 2014.
- [CWL14] Zixing Cai, Sha Wen, and Lijue Liu. Distributed wireless sensor scheduling for multi-target tracking based on matrix-coded parallel genetic algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2013–2018, Beijing, China, 6-11 July 2014.
- [CY14] Chi Kin Chow and Shiu Yin Yuen. A dynamic history-driven evolutionary algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1558–1564, Beijing, China, 6-11 July 2014.
- [CZZ⁺14] Min-Rong Chen, Wei Zeng, Guo-Qiang Zeng, Xia Li, and Jian-Ping Luo. A novel artificial bee colony algorithm with integration of extremal optimization for numerical optimization problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 242–249, Beijing, China, 6-11 July 2014.
- [Dav14] Jaime Davila. Genotype coding, diversity, and dynamic environments: A study on an evolutionary neural network multi-agent system. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2306–2313, Beijing, China, 6-11 July 2014.
- [DC14] Xuanni Du and Xiaolin Chang. Performance of AI algorithms for mining meaningful roles. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2070–2076, Beijing, China, 6-11 July 2014.
- [DCX⁺14] Jinliang Ding, Lipeng Chen, Qingguang Xie, Tianyou Chai, and Xiuping Zheng. Effect of pseudo gradient on differential evolutionary for global numerical optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2019–2026, Beijing, China, 6-11 July 2014.
- [DDB14] Yashesh Dhebar, Kalyanmoy Deb, and Sunith Bandaru. Non-uniform mapping in real-coded genetic algorithms. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2237–2244, Beijing, China, 6-11 July 2014.
- [DHRM14] Rolf Dornberger, Thomas Hanne, Remo Ryter, and Stauffer Michael. Optimization of the picking sequence of an automated storage and retrieval system (AS/RS). In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2817–2824, Beijing, China, 6-11 July 2014.

- [DNBO14] Sarah Donne, Miguel Nicolau, Christopher Bean, and Michael O'Neill. Wave height quantification using land based seismic data with grammatical evolution. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2909–2916, Beijing, China, 6-11 July 2014.
- [DRKN14] Shreyasi Datta, Pratyusha Rakshit, Amit Konar, and Atulya K. Nagar. Selecting the optimal EEG electrode positions for a cognitive task using an artificial bee colony with adaptive scale factor optimization algorithm. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 2748–2755, Beijing, China, 6-11 July 2014.
- [DS14] Laurence Dawson and Iain Stewart. Accelerating ant colony optimization-based edge detection on the GPU using CUDA. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1736–1743, Beijing, China, 6-11 July 2014.
- [DSML14] Essam Debie, Kamran Shafi, Kathryn Merrick, and Chris Lokan. An online evolutionary rule learning algorithm with incremental attribute discretization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1116–1123, Beijing, China, 6-11 July 2014.
- [dSMZ14] Alexandre Sawczuk da Silva, Hui Ma, and Mengjie Zhang. A graph-based particle swarm optimisation approach to QoS-aware web service composition and selection. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3127–3134, Beijing, China, 6-11 July 2014.
- [DSZP14] Donald Davendra, Roman Senkerik, Ivan Zelinka, and Michal Pluhacek. Scatter search algorithm with chaos based stochasticity. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 860–866, Beijing, China, 6-11 July 2014.
- [DSZW14] Jianya Ding, Shiji Song, Rui Zhang, and Cheng Wu. Minimizing makespan for a no-wait flowshop using tabu mechanism improved iterated greedy algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1906–1911, Beijing, China, 6-11 July 2014.
- [DT14] Ke Ding and Ying Tan. Comparison of random number generators in particle swarm opimization algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2664–2671, Beijing, China, 6-11 July 2014.
- [DTT⁺14] Wenyong Dong, Jiangshen Tian, Xu Tang, Kang Sheng, and Jin Liu. Autonomous learning adaptation for particle swarm optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 223–228, Beijing, China, 6-11 July 2014.
- [dVGVN⁺14] Francisco Fernandez de Vega, Mario Garcia-Valdez, Lilian Navarro, Cayetano Cruz, Patricia Hernandez, Tania Gallego, and J. Vicente Albarran. When artists met Evospace-i. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2282–2289, Beijing, China, 6-11 July 2014.
- [DXH⁺14] Pengfei Duan, Shengwu Xiong, Zhongbo Hu, Qiong Chen, and Xinlu Zhong. Multiobjective optimization model based on steady degree for teaching building evacuation. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 924–929, Beijing, China, 6-11 July 2014.
- [DY14] Grant Dick and Xin Yao. Model representation and cooperative coevolution for finite-state machine evolution. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2700–2707, Beijing, China, 6-11 July 2014.

- [DZ14] Wei Dong and Sanyou Zeng. Linear sparse arrays designed by dynamic constrained multi-objective evolutionary algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3067–3072, Beijing, China, 6-11 July 2014.
- [ED14] Yaser Enaya and Kalyanmoy Deb. Network path optimization under dynamic conditions. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2977–2984, Beijing, China, 6-11 July 2014.
- [ELH14] Tom Everitt, Tor Lattimore, and Marcus Hutter. Free lunch for optimisation under the universal distribution. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 167–174, Beijing, China, 6-11 July 2014.
- [ERS14] Saber Elsayed, Tapabrata Ray, and Ruhul Sarker. A surrogate-assisted differential evolution algorithm with dynamic parameters selection for solving expensive optimization problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1062–1068, Beijing, China, 6-11 July 2014.
- [ERW14a] Istvan Erlich, Jose L. Rueda, and Sebastian Wildenhues. Evaluating the mean-variance mapping optimization on the IEEE-CEC 2014 test suite. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1625–1632, Beijing, China, 6-11 July 2014.
- [ERW14b] Istvan Erlich, Jose L. Rueda, and Sebastian Wildenhues. Solving the IEEE-CEC 2014 expensive optimization test problems by using single-particle MVMO. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1084–1091, Beijing, China, 6-11 July 2014.
- [ESE14] Saber Elsayed, Ruhul Sarker, and Daryl Essam. United multi-operator evolutionary algorithms. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1006–1013, Beijing, China, 6-11 July 2014.
- [ESEH14] Saber Elsayed, Ruhul Sarker, Daryl Essam, and Noha Hamza. Testing united multi-operator evolutionary algorithms on the CEC2014 real-parameter numerical optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1650–1657, Beijing, China, 6-11 July 2014.
- [FAL⁺14] Cheng Weng Fong, Hishammuddin Asmuni, Way Shen Lam, Barry McCollum, and Paul McMullan. A novel hybrid approach for curriculum based course timetabling problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 544–550, Beijing, China, 6-11 July 2014.
- [FCC14] Ezzeddine Fatnassi, Olfa Chebbi, and Jouhaina Chaouachi. A bee colony algorithm for routing guided automated battery-operated electric vehicles in personal rapid transit systems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 536–543, Beijing, China, 6-11 July 2014.
- [FD14] Siavash Farzan and Guilherme DeSouza. A parallel evolutionary solution for the inverse kinematics of generic robotic manipulators. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 358–365, Beijing, China, 6-11 July 2014.
- [FGG14] Denis Felipe, Elizabeth Ferreira Gouvea Goldbarg, and Marco Cesar Goldbarg. Scientific algorithms for the car renter salesman problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 873–879, Beijing, China, 6-11 July 2014.
- [Fie14] Jonathan Fieldsend. Running up those hills: Multi-modal search with the niching migratory multi-swarm optimiser. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2593–2600, Beijing, China, 6-11 July 2014.

- [FJZ14] Wenlong Fu, Mark Johnston, and Mengjie Zhang. Unsupervised learning for edge detection using genetic programming. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 117–124, Beijing, China, 6-11 July 2014.
- [FLS⁺14a] Gary Fogel, Enoch Liu, Marco Salemi, Susanna Lamers, and Michael McGrath. Evolved neural networks for HIV-1 co-receptor identification. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2778–2784, Beijing, China, 6-11 July 2014.
- [FLS⁺14b] Haobo Fu, Peter Lewis, Bernhard Sendhoff, Ke Tang, and Xin Yao. What are dynamic optimization problems? In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1550–1557, Beijing, China, 6-11 July 2014.
- [FM14] Timo Friedrich and Stefan Menzel. A cascaded evolutionary multi-objective optimization for solving the unbiased universal electric motor family problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3184–3191, Beijing, China, 6-11 July 2014.
- [FTL14] Shasha Feng, Shaolin Tan, and Jinhu Lu. Characterizing the impact of selection on the evolution of cooperation in complex networks. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 813–818, Beijing, China, 6-11 July 2014.
- [GCFL14] Yinan Guo, Meirong Chen, Haobo Fu, and Yun Liu. Find robust solutions over time by two-layer multi-objective optimization method. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1528–1535, Beijing, China, 6-11 July 2014.
- [GE14a] Robert Garden and Andries Engelbrecht. Analysis and classification of optimisation benchmark functions and benchmark suites. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1641–1649, Beijing, China, 6-11 July 2014.
- [GE14b] Kristina S. Georgieva and Andries P. Engelbrecht. Cooperative DynDE for temporal data clustering. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 437–444, Beijing, China, 6-11 July 2014.
- [GEKY14] Jacomine Grobler, Andries P. Engelbrecht, Graham Kendall, and V.S.S. Yadavalli. Heuristic space diversity management in a meta-hyper-heuristic framework. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1863–1869, Beijing, China, 6-11 July 2014.
- [GESA14] Garrison Greenwood, Saber Elsayed, Ruhul Sarker, and Hussein Abbass. Online generation of trajectories for autonomous vehicles using a multi-agent system. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1218–1224, Beijing, China, 6-11 July 2014.
- [GK14] Kyrre Glette and Paul Kaufmann. Lookup table partial reconfiguration for an evolvable hardware classifier system. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1706–1713, Beijing, China, 6-11 July 2014.
- [GLDG14] Song Gao, Zhigang Liu, Chenxi Dai, and Xiao Geng. Application of BPSO with GA in model-based fault diagnosis of traction substation. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2063–2069, Beijing, China, 6-11 July 2014.

- [GPC14] Antonio Gonzalez-Pardo and David Camacho. A new CSP graph-based representation to resource-constrained project scheduling problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 344–351, Beijing, China, 6-11 July 2014.
- [GPST14] Marco Gaudesi, Elio Piccolo, Giovanni Squillero, and Alberto Tonda. TURAN: Evolving non-deterministic players for the iterated prisoner's dilemma. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 21–27, Beijing, China, 6-11 July 2014.
- [GS14] Jiangshao Gu and Xuanhua Shi. An adaptive PSO based on motivation mechanism and acceleration restraint operator. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1328–1336, Beijing, China, 6-11 July 2014.
- [GT14] Sen Bong Gee and Kay Chen Tan. Diversity preservation with hybrid recombination for evolutionary multiobjective optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1172–1178, Beijing, China, 6-11 July 2014.
- [GWL14] Chao Gao, Thomas Weise, and Jinlong Li. A weighting-based local search heuristic algorithm for the set covering problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 826–831, Beijing, China, 6-11 July 2014.
- [GYD14] Liang Gu, Peng Yang, and Yongqiang Dong. A dynamic-weighted collaborative filtering approach to address sparsity and adaptivity issues. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3044–3050, Beijing, China, 6-11 July 2014.
- [Han14] Hisashi Handa. Deep boltzmann machine for evolutionary agents of Mario AI. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 36–41, Beijing, China, 6-11 July 2014.
- [HB14] Skander Htiouech and Sadok Bouamama. A Lagrangian and surrogate information enhanced tabu search for the MMKP. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1461–1468, Beijing, China, 6-11 July 2014.
- [HBX14] Zhongyi Hu, Yukun Bao, and Tao Xiong. Partial opposition-based adaptive differential evolution algorithms: Evaluation on the CEC 2014 benchmark set for real-parameter optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2259–2265, Beijing, China, 6-11 July 2014.
- [HBZ14] Jun He, Mitavskiy Boris, and Yuren Zhou. A theoretical assessment of solution quality in evolutionary algorithms for the knapsack problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 141–148, Beijing, China, 6-11 July 2014.
- [HC14] Tiantian He and Keith C.C. Chan. Evolutionary community detection in social networks. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1496–1503, Beijing, China, 6-11 July 2014.
- [HCGL14] Yudan Huo, Zhihua Cai, Wenyin Gong, and Qin Liu. A new adaptive kalman filter by combining evolutionary algorithm and fuzzy inference system. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2893–2900, Beijing, China, 6-11 July 2014.
- [HE14] Marde Helbig and Andries Engelbrecht. Heterogeneous dynamic vector evaluated particle swarm optimisation for dynamic multi-objective optimisation. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3151–3159, Beijing, China, 6-11 July 2014.

- [HJZ14] Rachel Hunt, Mark Johnston, and Mengjie Zhang. Evolving machine-specific dispatching rules for a two-machine job shop using genetic programming. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 618–625, Beijing, China, 6-11 July 2014.
- [HL14] Xiao-Bing Hu and Mark S Leeson. Genetic algorithm with spatial receding horizon control for the optimization of facility locations. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 903–909, Beijing, China, 6-11 July 2014.
- [HLX⁺14] Ping He, Ling Lu, Xiaohua Xu, Kanwen Li, Heng Qian, and Wei Zhang. Confidence-based ant random walks. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1721–1728, Beijing, China, 6-11 July 2014.
- [HOBE14] Kyle Harrison, Beatrice Ombuki-Berman, and Andries Engelbrecht. Dynamic multiobjective optimization using charged vector evaluated particle swarm optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary* Computation, pages 1929–1936, Beijing, China, 6-11 July 2014.
- [HP14] Sheldon Hui and Nagaratnam Suganthan Ponnuthurai. Niching-based self-adaptive ensemble DE with MMTS for solving dynamic optimization problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1536–1541, Beijing, China, 6-11 July 2014.
- [HSE14] Noha Hamza, Ruhul Sarker, and Daryl Essam. Differential evolution with a constraint consensus mutation for solving optimization problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 991–997, Beijing, China, 6-11 July 2014.
- [HUM14] Medria Hardhienata, Valery Ugrinovskii, and Kathryn Merrick. Task allocation under communication constraints using motivated particle swarm optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3135–3142, Beijing, China, 6-11 July 2014.
- [HWL14] Xiao-Bing Hu, Ming Wang, and Mark S Leeson. Calculating the complete Pareto front for a special class of continuous multi-objective optimization problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 290–297, Beijing, China, 6-11 July 2014.
- [HYZ14] Wang Hu, Gary Yen, and Xin Zhang. Sensitivity analysis of parallel cell coordinate system in many-objective particle swarm optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2641–2648, Beijing, China, 6-11 July 2014.
- [IJR⁺14] Zelinka Ivan, Lampinen Jouni, Senkerik Roman, Pluhacek Michal, and Davendra Donald. Evolutionary algorithms dynamics and its hidden complex network structures. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3246–3251, Beijing, China, 6-11 July 2014.
- [JDS14] Nanda Dulal Jana, Swagatam Das, and Jaya Sil. Particle swarm optimization with population adaptation. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 573–578, Beijing, China, 6-11 July 2014.
- [JJA⁺14] Thair Judeh, Thaer Jayyousi, Lipi Acharya, Robert Reynolds, and Dongxiao Zhu. GSCA: Reconstructing biological pathway topologies using a cultural algorithms approach. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2206–2213, Beijing, China, 6-11 July 2014.

- [JJdLN14] Andreas Janecek, Tobias Jordan, and Fernando Buarque de Lima-Neto. Swarm/evolutionary intelligence for agent-based social simulation. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2925–2932, Beijing, China, 6-11 July 2014.
- [JJM14] Teran Juan, Aguilar Jose, and Cerrada Mariela. Cultural learning for multi-agent system and its application to fault management. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 2188–2195, Beijing, China, 6-11 July 2014.
- [JWH⁺14] Qiaoyong Jiang, Lei Wang, Xinhong Hei, Rong Fei, Dongdong Yang, Feng Zou, Hongye Li, and Zijian Cao. Optimal approximation of stable linear systems with a novel and efficient optimization algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 840–844, Beijing, China, 6-11 July 2014.
- [JY14a] Chatkaew Jariyatantiwait and Gary Yen. Fuzzy multiobjective differential evolution using performance metrics feedback. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1959–1966, Beijing, China, 6-11 July 2014.
- [JY14b] Shouyong Jiang and Shengxiang Yang. An improved quantum-behaved particle swarm optimization based on linear interpolation. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 769–775, Beijing, China, 6-11 July 2014.
- [JY14c] Nanlin Jin and Xin Yao. Heuristic optimization for software project management with impacts of team efficiency. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3016–3023, Beijing, China, 6-11 July 2014.
- [JYH⁺14] Yunzhi Jiang, Zhenlun Yang, Zhifeng Hao, Yinglong Wang, and Huojiao He. A cooperative honey bee mating algorithm and its application in multi-threshold image segmentation. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1579–1585, Beijing, China, 6-11 July 2014.
- [KAA14] Amel Ksibi, Anis Ben Ammar, and Chokri Ben Amar. Enhancing relevance re-ranking using nature-inspired meta-heuristic optimization algorithms. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1435–1442, Beijing, China, 6-11 July 2014.
- [KBJdS14] Eugenius Kaszkurewicz, Amit Bhaya, Jayadeva Jayadeva, and Joao Marcos Meirelles da Silva. The coupled EigenAnt algorithm for shortest path problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1729–1735, Beijing, China, 6-11 July 2014.
- [KBJH14] Lee Ki-Baek and Kim Jong-Hwan. DMOPSO: Dual multi-objective particle swarm optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3096–3102, Beijing, China, 6-11 July 2014.
- [Ke14a] Liangjun Ke. A cooperative approach between metaheuristic and branch-and-price for the team orienteering problem with time windows. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1878–1882, Beijing, China, 6-11 July 2014.
- [KE14b] Ronald Klazar and Andries Engelbrecht. Parameter optimization by means of statistical quality guides in F-Race. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2547–2552, Beijing, China, 6-11 July 2014.

- [KJXZ14] Fangjun Kuang, Zhong Jin, Weihong Xu, and Siyang Zhang. A novel chaotic artificial bee colony algorithm based on tent map. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 235–241, Beijing, China, 6-11 July 2014.
- [KKOM14] Ahmed Kattan, Michael Kampouridis, Yew-Soon Ong, and Khalid Mehamdi. Transformation of input space using statistical moments: EA-based approach. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2499–2506, Beijing, China, 6-11 July 2014.
- [KLQ14a] Borhan Kazimipour, Xiaodong Li, and A.K. Qin. Effects of population initialization on differential evolution for large scale optimization. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 2404– 2411, Beijing, China, 6-11 July 2014.
- [KLQ14b] Borhan Kazimipour, Xiaodong Li, and A.K. Qin. A review of population initialization techniques for evolutionary algorithms. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2585–2592, Beijing, China, 6-11 July 2014.
- [KM14] Muhammad Rezaul Karim and Malek Mouhoub. Coevolutionary genetic algorithm for variable ordering in CSPs. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 2716–2723, Beijing, China, 6-11 July 2014.
- [KMS14] Tipaluck Krityakierne, Juliane Mueller, and Christine Shoemaker. SO-MODS: Optimization for high dimensional computationally expensive multi-modal functions with surrogate search. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1092–1099, Beijing, China, 6-11 July 2014.
- [KN14] Tomas Kren and Roman Neruda. Generating lambda term individuals in typed genetic programming using forgetful A*. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1847–1854, Beijing, China, 6-11 July 2014.
- [KOLQ14] Borhan Kazimipour, Mohammad Nabi Omidvar, Xiaodong Li, and A.K. Qin. A novel hybridization of opposition-based learning and cooperative co-evolutionary for large-scale optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2833–2840, Beijing, China, 6-11 July 2014.
- [KTBB14] Damla Kizilay, M. Fatih Tasgetiren, Onder Bulut, and Bilgehan Bostan. A discrete artificial bee colony algorithm for the parallel machine scheduling problem in DYO painting company. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 653–660, Beijing, China, 6-11 July 2014.
- [KTG⁺14] Bartosz Krawczyk, Isaac Triguero, Salvador Garcia, Michal Wozniak, and Francisco Herrera. A first attempt on evolutionary prototype reduction for nearest neighbor one-class classification. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 747–753, Beijing, China, 6-11 July 2014.
- [KZS14] Pavel Kromer, Ivan Zelinka, and Vaclav Snasel. Can deterministic chaos improve differential evolution for the linear ordering problem? In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1443–1448, Beijing, China, 6-11 July 2014.
- [KZW+14] Li Kuang, Zhiyong Zhao, Feng Wang, Yuanxiang Li, Fei Yu, and Zhijie Li. A differential evolution box-covering algorithm for fractal dimension on complex networks. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 693–699, Beijing, China, 6-11 July 2014.

- [LCCFL14] Raul Lara-Cabrera, Carlos Cotta, and Antonio J. Fernandez-Leiva. A self-adaptive evolutionary approach to the evolution of aesthetic maps for a RTS game. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 298–304, Beijing, China, 6-11 July 2014.
- [LCG14] Bai Li, Raymond Chiong, and Ligang Gong. Search-evasion path planning for submarines using the artificial bee colony algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 528–535, Beijing, China, 6-11 July 2014.
- [LCN14] Yun-Chia Liang, Hsiang-Ling Chen, and Yung-Hsiang Nien. Artificial bee colony for workflow scheduling. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 558–564, Beijing, China, 6-11 July 2014.
- [LCT14] Xin-Lan Liao, Chih-Hung Chien, and Chuan-Kang Ting. A genetic algorithm for the minimum latency pickup and delivery problem. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 3272– 3279, Beijing, China, 6-11 July 2014.
- [LCZ⁺14] Bo Liu, Qin Chen, Qingfu Zhang, Goerges Gielen, and Vic Grout. Behavioral study of the surrogate model-aware evolutionary search framework. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 715–722, Beijing, China, 6-11 July 2014.
- [LgCW14] Jiang Liu, Bai gen Cai, and Jian Wang. Particle swarm optimization for integrity monitoring in BDS/DR based railway train positioning. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 792–797, Beijing, China, 6-11 July 2014.
- [LH14] Po-Ming Lee and Tzu-Chien Hsiao. Applying LCS to affective images classification in spatial-frequency domain. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1690–1697, Beijing, China, 6-11 July 2014.
- [LHFC⁺14] Roberto Erick Lopez-Herrejon, Javier Ferrer, Francisco Chicano, Alexander Egyed, and Enrique Alba. Comparative analysis of classical multi-objective evolutionary algorithms and seeding strategies for pairwise testing of software product lines. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 387–396, Beijing, China, 6-11 July 2014.
- [LHH14a] Xianneng Li, Wen He, and Kotaro Hirasawa. Adaptive genetic network programming. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1808–1815, Beijing, China, 6-11 July 2014.
- [LHH14b] Xianneng Li, Wen He, and Kotaro Hirasawa. Creating stock trading rules using graph-based estimation of distribution algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 731–738, Beijing, China, 6-11 July 2014.
- [LHH14c] Xianneng Li, Wen He, and Kotaro Hirasawa. Generalized classifier system: Evolving classifiers with cyclic conditions. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1682–1689, Beijing, China, 6-11 July 2014.
- [LHH14d] Xianneng Li, Wen He, and Kotaro Hirasawa. Learning and evolution of genetic network programming with knowledge transfer. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 798–805, Beijing, China, 6-11 July 2014.
- [LHH14e] James Liu, Yulin He, and Yanxing Hu. Regression ensemble with PSO algorithms based fuzzy integral. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 762–768, Beijing, China, 6-11 July 2014.

- [LHH14f] Yongxin Luo, Sheng Huang, and Jinglu Hu. A niching two-layered differential evolution with self-adaptive control parameters. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1405–1412, Beijing, China, 6-11 July 2014.
- [LJW⁺14] Mengshi Li, Tianyao Ji, Peter Wu, Shan He, and Qinghua Wu. Protein folding estimation using paired-bacteria optimizer. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2027–2032, Beijing, China, 6-11 July 2014.
- [LK14] Fabrice Lauri and Abder Koukam. Hybrid ACO/EA algorithms applied to the multiagent patrolling problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 250–257, Beijing, China, 6-11 July 2014.
- [LL14a] Can Liu and Bin Li. Memetic algorithm with adaptive local search depth for large scale global optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 82–88, Beijing, China, 6-11 July 2014.
- [LL14b] Wan-Yu Liu and Chun-Cheng Lin. A cultural algorithm for spatial forest harvest scheduling. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1273–1276, Beijing, China, 6-11 July 2014.
- [LLP14] Valerio Lattarulo, Benjamin A. Lindley, and Geoffrey T. Parks. Application of the MOAA for the optimization of CORAIL assemblies for nuclear reactors. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1413–1420, Beijing, China, 6-11 July 2014.
- [LLTY14] Bingdong Li, Jinlong Li, Ke Tang, and Xin Yao. An improved two archive algorithm for many-objective optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2869–2876, Beijing, China, 6-11 July 2014.
- [LLZL14] Geoffrey Lee, Min Luo, Fabio Zambetta, and Xiaodong Li. Learning a Super Mario controller from examples of human play. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1–8, Beijing, China, 6-11 July 2014.
- [LM14] Seung-Mok Lee and Hyun Myung. A cooperative coevolutionary approach to multirobot formation control. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1225–1231, Beijing, China, 6-11 July 2014.
- [LMY14] Lin Lin, Gen Mitsuo, and Liang Yan. A hybrid EA for high-dimensional subspace clustering problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2855–2860, Beijing, China, 6-11 July 2014.
- [LNCL14] Man Fai Leung, Sin Chun Ng, Chi Chung Cheung, and Andrew K Lui. A new strategy for finding good local guides in MOPSO. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1990–1997, Beijing, China, 6-11 July 2014.
- [LNJ14] Ruochen Liu, Xu Niu, and Licheng Jiao. A multi-swarm particle swarm optimization with orthogonal learning for locating and tracking multiple optima in dynamic environments. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 754–761, Beijing, China, 6-11 July 2014.
- [LO14] Menglin Li and Colm O'Riordan. Graph centrality measures and the robustness of cooperation. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1232–1237, Beijing, China, 6-11 July 2014.

- [Lot14] Marcelo Lotif. Visualizing the population of meta-heuristics during the optimization process using self-organizing maps. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 313–319, Beijing, China, 6-11 July 2014.
- [LQSS14] J. Liang, B. Y. Qu, H. Song, and Z. G. Shang. Memetic differential evolution based on fitness Euclidean-distance ratio. In Carlos A. Coello Coello, editor, *Proceedings* of the 2014 IEEE Congress on Evolutionary Computation, pages 2266–2273, Beijing, China, 6-11 July 2014.
- [LSCS14] Vitor Leite, Carlos Silva, Joao Claro, and Joao M. C. Sousa. Optimization of power flow with energy storage using genetic algorithms. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2678–2684, Beijing, China, 6-11 July 2014.
- [LSLN14] Sai Ho Ling, Phyo Phyo San, Hak Keung Lam, and Hung Nguyen. Non-invasive detection of hypoglycemic episodes in type1 diabetes using intelligent hybrid rough neural system. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1238–1242, Beijing, China, 6-11 July 2014.
- [LSLQ14a] Zhihui Li, Zhigang Shang, J. J. Liang, and B. Y. Qu. Differential evolution strategy based on the constraint of fitness values classification. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1454–1460, Beijing, China, 6-11 July 2014.
- [LSLQ14b] Zhihui Li, Zhigang Shang, J. J. Liang, and B. Y. Qu. Feature selection based on manifold-learning with dynamic constraint-handling differential evolution. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 332–337, Beijing, China, 6-11 July 2014.
- [LSO14] Chang Luo, Koji Shimoyama, and Shigeru Obayashi. Kriging model based many-objective optimization with efficient calculation of expected hypervolume improvement. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1187–1194, Beijing, China, 6-11 July 2014.
- [LSR14a] Min Liu, Hemant Singh, and Tapabrata Ray. A benchmark generator for dynamic capacitated arc routing problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 579–586, Beijing, China, 6-11 July 2014.
- [LSR14b] Min Liu, Hemant Singh, and Tapabrata Ray. A memetic algorithm with a new split scheme for solving dynamic capacitated arc routing problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 595–602, Beijing, China, 6-11 July 2014.
- [LSZJ14] Tong Liu, Chaoli Sun, Jianchao Zeng, and Yaochu Jin. Similarity- and reliability-assisted fitness estimation for particle swarm optimization of expensive problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 640–646, Beijing, China, 6-11 July 2014.
- [LTJZ14] Yangyang Li, Xiaolong Tian, Licheng Jiao, and Xiangrong Zhang. Biclustering of gene expression data using particle swarm optimization integrated with pattern-driven local search. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1367–1373, Beijing, China, 6-11 July 2014.
- [LWLT14] Kuicheng Lin, Xue Wang, Xuanping Li, and Yuqi Tan. Self-adaptive morphable model based multi-view non-cooperative 3D face reconstruction. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 320–325, Beijing, China, 6-11 July 2014.

- [LWW⁺14a] Huichao Liu, Zhijian Wu, Hui Wang, Shahryar Rahnamayan, and Changshou Deng. Improved differential evolution with adaptive opposition strategy. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 1776–1783, Beijing, China, 6-11 July 2014.
- [LWW⁺14b] W.Z. Low, J. De Weerdt, M.T. Wynn, A.H.M. ter Hofstede, W.M.P. van der Aalst, and S. vanden Broucke. Perturbing event logs to identify cost reduction opportunities: A genetic algorithm-based approach. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2428–2435, Beijing, China, 6-11 July 2014.
- [LYL14] Miqing Li, Shengxiang Yang, and Xiaohui Liu. A test problem for visual investigation of high-dimensional multi-objective search. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2140–2147, Beijing, China, 6-11 July 2014.
- [LZ14] Jie Li and Junqi Zhang. Using estimation of distribution algorithm to coordinate decentralized learning automata for meta-task scheduling. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2077–2084, Beijing, China, 6-11 July 2014.
- [LZD14] Hui Li, Qingfu Zhang, and Jingda Deng. Multiobjective test problems with complicated Pareto fronts: Difficulties in degeneracy. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2156–2163, Beijing, China, 6-11 July 2014.
- [LZL14] Fei Li, Yuting Zhang, and Haibo Li. Quantum bacterial foraging optimization algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1265–1272, Beijing, China, 6-11 July 2014.
- [LZQS14] J. J. Liang, B. Zheng, B. Y. Qu, and H. Song. Multi-objective differential evolution algorithm based on fast sorting and a novel constraints handling technique. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 445–450, Beijing, China, 6-11 July 2014.
- [LZT14a] Junzhi Li, Shaoqiu Zheng, and Ying Tan. Adaptive fireworks algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3214–3221, Beijing, China, 6-11 July 2014.
- [LZT14b] Jianhua Liu, Shaoqu Zheng, and Ying Tan. Analysis on global convergence and time complexity of fireworks algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3207–3213, Beijing, China, 6-11 July 2014.
- [LZW⁺14] Min Liu, Jinhua Zheng, Junnian Wang, Yuzhen Liu, and Lei Jiang. An adaptive diversity introduction method for dynamic evolutionary multiobjective optimization. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 3160–3167, Beijing, China, 6-11 July 2014.
- [LZWY14a] Zezhou Li, Junqi Zhang, Wei Wang, and Jing Yao. Dimensions cooperate by Euclidean metric in particle swarm optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1359–1366, Beijing, China, 6-11 July 2014.
- [LZWY14b] Haiming Liu, Jiong Zhou, Xinsheng Wu, and Peng Yuan. Optimization algorithm for rectangle packing problem based on varied-factor genetic algorithm and lowest frontline strategy. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 352–357, Beijing, China, 6-11 July 2014.

- [LZZ14a] Yang Li, Aimin Zhou, and Guixu Zhang. An MOEA/D with multiple differential evolution mutation operators. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 397–404, Beijing, China, 6-11 July 2014.
- [LZZ14b] Qiuxiao Liao, Aimin Zhou, and Guixu Zhang. A locally weighted metamodel for preselection in evolutionary optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2483–2490, Beijing, China, 6-11 July 2014.
- [MA14] Amiram Moshaiov and Omer Abramovich. Is MO-CMA-ES superior to NSGA-II for the evolution of multi-objective neuro-controllers? In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2809–2816, Beijing, China, 6-11 July 2014.
- [MBB14] Francisco Manfrini, Helio Barbosa, and Heder Bernadino. Optimization of combinational logic circuits through decomposition of truth table and evolution of subcircuits. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 945–950, Beijing, China, 6-11 July 2014.
- [MBC14] Hector D. Menendez, David F. Barrero, and David Camacho. A co-evolutionary multi-objective approach for a k-adaptive graph-based clustering algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2724–2731, Beijing, China, 6-11 July 2014.
- [MC14] Saul Zapotecas Martinez and Carlos A. Coello Coello. A multi-objective evolutionary algorithm based on decomposition for constrained multi-objective optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 429–436, Beijing, China, 6-11 July 2014.
- [mCG14] Yiu ming Cheung and Fangqing Gu. Online objective reduction for many-objective optimization problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1165–1171, Beijing, China, 6-11 July 2014.
- [MCGF14] James Montgomery, Stephen Chen, and Yasser Gonzalez-Fernandez. Identifying and exploiting the scale of a search space in differential evolution. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1427–1434, Beijing, China, 6-11 July 2014.
- [MCP14a] Ana Madureira, Bruno Cunha, and Ivo Pereira. Cooperation mechanism for distributed resource scheduling through artificial bee colony based self-organized scheduling system. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 565–572, Beijing, China, 6-11 July 2014.
- [MCP14b] Oliviu Matei, Diana Contras, and Petrica Pop. Applying evolutionary computation for evolving ontologies. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1520–1527, Beijing, China, 6-11 July 2014.
- [MD14] Magdalena Metlicka and Donald Davendra. Chaos-driven discrete artificial bee colony. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2947–2954, Beijing, China, 6-11 July 2014.
- [MDAS14] Ingo Mauser, Marita Dorscheid, Florian Allerding, and Hartmut Schmeck. Encodings for evolutionary algorithms in smart buildings with energy management systems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2361–2366, Beijing, China, 6-11 July 2014.

- [MdCC14] Renato Maia, Leandro de Castro, and Walmir Caminhas. Real-parameter optimization with OptBees. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2649–2655, Beijing, China, 6-11 July 2014.
- [ME14] Katherine Malan and Andries Engelbrecht. A progressive random walk algorithm for sampling continuous fitness landscapes. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2507–2514, Beijing, China, 6-11 July 2014.
- [MGG14] Matheus Menezes, Marco Goldbarg, and Elizabeth Goldbarg. A memetic algorithm for the prize collecting traveling car renter problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3258–3265, Beijing, China, 6-11 July 2014.
- [MLH14] Daniel Molina, Benjamin Lacroix, and Francisco Herrera. Influence of regions on the memetic algorithm for the special session on real-parameter single objetive optimisation. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1633–1640, Beijing, China, 6-11 July 2014.
- [MLWJ14] Jingjing Ma, Yu Lei, Zhao Wang, and Licheng Jiao. A memetic algorithm based on immune multi-objective optimization for flexible job-shop scheduling problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 58–65, Beijing, China, 6-11 July 2014.
- [MLY14] Yi Mei, Xiaodong Li, and Xin Yao. Variable neighborhood decomposition for large scale capacitated arc routing problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1313–1320, Beijing, China, 6-11 July 2014.
- [MMC14] Adriana Menchaca-Mendez and Carlos A. Coello Coello. MD-MOEA: A new MOEA based on the maximin fitness function and Euclidean distances between solutions. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2148–2155, Beijing, China, 6-11 July 2014.
- [MMZ14] Luca Marchetti, Vincenzo Manca, and Ivan Zelinka. On the inference of deterministic chaos: Evolutionary algorithm and metabolic P system approaches. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1483–1489, Beijing, China, 6-11 July 2014.
- [MND⁺14] Luiz Martins, Ricardo Nobre, Alexandre Delbem, Eduardo Marques, and Joao Cardoso. A clustering-based approach for exploring sequences of compiler optimizations. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2436–2443, Beijing, China, 6-11 July 2014.
- [MNI14] Hiroyuki Masuda, Yusuke Nojima, and Hisao Ishibuchi. Visual examination of the behavior of EMO algorithms for many-objective optimization with many decision variables. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2633–2640, Beijing, China, 6-11 July 2014.
- [MNM14] Ezequiel Di Mario, Inaki Navarro, and Alcherio Martinoli. Analysis of fitness noise in particle swarm optimization: From robotic learning to benchmark functions. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2785–2792, Beijing, China, 6-11 July 2014.
- [MOLD14] Asad Mohammadi, Mohammad Nabi Omidvar, Xiaodong Li, and Kalyanmoy Deb. Integrating user preferences and decomposition methods for many-objective optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 421–428, Beijing, China, 6-11 July 2014.

- [MPC14] Hector D. Menendez, Laura Plaza, and David Camacho. Combining graph connectivity and genetic clustering to improve biomedical summarization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2740–2747, Beijing, China, 6-11 July 2014.
- [MS14a] Michael Mayo and Quan Sun. Evolving artificial datasets to improve interpretable classifiers. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2367–2374, Beijing, China, 6-11 July 2014.
- [MS14b] Andrew McNabb and Kevin Seppi. Serial PSO results are irrelevant in a multi-core parallel world. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3143–3150, Beijing, China, 6-11 July 2014.
- [MSR14] Sedigheh Mahdavi, Mohammad Ebrahim Shiri, and Shahryar Rahnamayan. Cooperative co-evolution with a new decomposition method for large-scale optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1285–1292, Beijing, China, 6-11 July 2014.
- [MT14] Amiram Moshaiov and Amir Tal. Family bootstrapping: A genetic transfer learning approach for onsetting the evolution for a set of related robotic tasks. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2801–2808, Beijing, China, 6-11 July 2014.
- [MV14a] Luca Masi and Massimiliano Vasile. A multidirectional Physarum solver for the automated design of space trajectories. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2992–2999, Beijing, China, 6-11 July 2014.
- [MV14b] Edmondo Minisci and Massimiliano Vasile. Adaptive inflationary differential evolution. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 1792–1799, Beijing, China, 6-11 July 2014.
- [MVJ14] Eddy Mesa, Juan David Velasquez, and Patricia Jaramillo. A new self-adaptive PSO based on the identification of planar regions. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1937–1943, Beijing, China, 6-11 July 2014.
- [MWLN14] Rammohan Mallipeddi, Guohua Wu, Minho Lee, and Suganthan Ponnuthurai Nagaratnam. Gaussian adaptation based parameter adaptation for differential evolution. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1760–1767, Beijing, China, 6-11 July 2014.
- [MXLJ14] Caihong Mu, Jin Xie, Ruochen Liu, and Licheng Jiao. A memetic algorithm using local structural information for detecting community structure in complex networks. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 680–686, Beijing, China, 6-11 July 2014.
- [MY14a] Michalis Mavrovouniotis and Shengxiang Yang. Elitism-based immigrants for ant colony optimization in dynamic environments: Adapting the replacement rate. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1752–1759, Beijing, China, 6-11 July 2014.
- [MY14b] Michalis Mavrovouniotis and Shengxiang Yang. Interactive and non-interactive hybrid immigrants schemes for ant algorithms in dynamic environments. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1542–1549, Beijing, China, 6-11 July 2014.
- [MZJ14] Caihong Mu, Jian Zhang, and Licheng Jiao. An intelligent ant colony optimization for community detection in complex networks. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 700–706, Beijing, China, 6-11 July 2014.

- [MZWY14] Ji Ma, Junqi Zhang, Wei Wang, and Jing Yao. Phase transition particle swarm optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2531–2538, Beijing, China, 6-11 July 2014.
- [MZZ14a] Ailong Ma, Yanfei Zhong, and Liangpei Zhang. Remote sensing imagery clustering using an adaptive bi-objective memetic method. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 50–57, Beijing, China, 6-11 July 2014.
- [MZZ⁺14b] Wenping Ma, Yi Zuo, Jiulin Zeng, Shuang Liang, and Licheng Jiao. A memetic algorithm for solving flexible job-shop scheduling problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 66–73, Beijing, China, 6-11 July 2014.
- [NB14] Ben Niu and Ying Bi. Binary bacterial foraging optimization for solving 0/1 knapsack problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 647–652, Beijing, China, 6-11 July 2014.
- [NBH14] Syed Saud Naqvi, Will N. Browne, and Christopher Hollitt. Genetic algorithms based feature combination for salient object detection, for autonomously identified image domain types. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 109–116, Beijing, China, 6-11 July 2014.
- [NCC⁺14] Marco S. Nobile, Andrea G. Citrolo, Paolo Cazzaniga, Daniela Besozzi, and Giancarlo Mauri. A memetic hybrid method for the molecular distance geometry problem with incomplete information. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1014–1021, Beijing, China, 6-11 July 2014.
- [NCY14] Qingjian Ni, Cen Cao, and Xushan Yin. A new dynamic probabilistic particle swarm optimization with dynamic random population topology. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1321–1327, Beijing, China, 6-11 July 2014.
- [NI14] Mari Nishiyama and Hitoshi Iba. Applying conversion matrix to robots for imitating motion using genetic algorithms. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 938–944, Beijing, China, 6-11 July 2014.
- [NLT⁺14] Tien Thanh Nguyen, Alan Wee-Chung Liew, Minh Toan Tran, Xuan Cuong Pham, and Mai Phuong Nguyen. A novel genetic algorithm approach for simultaneous feature and classifier selection in multi classifier system. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1698–1705, Beijing, China, 6-11 July 2014.
- [NNT14] Tung Nguyen, Kien Nguyen, and Ruck Thawonmas. Integrating fuzzy integral and heuristic search for unit micromanagement in RTS games. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 9–12, Beijing, China, 6-11 July 2014.
- [NXDT14] Ben Niu, Ting Xie, Qiqi Duan, and Lijing Tan. Particle swarm optimization for integrated yard truck scheduling and storage allocation problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 634–639, Beijing, China, 6-11 July 2014.
- [NXLZ14] Bach Hoai Nguyen, Bing Xue, Ivy Liu, and Mengjie Zhang. Filter based backward elimination in wrapper based PSO for feature selection in classification. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3111–3118, Beijing, China, 6-11 July 2014.

- [NZJ14] Su Nguyen, Mengjie Zhang, and Mark Johnston. A sequential genetic programming method to learn forward construction heuristics for order acceptance and scheduling. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1824–1831, Beijing, China, 6-11 July 2014.
- [OJ14] Hyondong Oh and Yaochu Jin. Evolving hierarchical gene regulatory networks for morphogenetic pattern formation of swarm robotics. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 776–783, Beijing, China, 6-11 July 2014.
- [OML14] Mohammad Nabi Omidvar, Yi Mei, and Xiaodong Li. Effective decomposition of large-scale separable continuous functions for cooperative co-evolutionary algorithms. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1305–1312, Beijing, China, 6-11 July 2014.
- [ONA14] Michael O'Neill, Miguel Nicolau, and Alexandros Agapitos. Experiments in program synthesis with grammatical evolution: A focus on integer sorting. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1504–1511, Beijing, China, 6-11 July 2014.
- [Pan14] Manikandan Pandiyan. Soft computing techniques based optimal tuning of virtual feedback PID controller for chemical tank reactor. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1922–1928, Beijing, China, 6-11 July 2014.
- [PAR14a] Daniel Poole, Christian Allen, and Thomas Rendall. Analysis of constraint handling methods for the gravitational search algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2005–2012, Beijing, China, 6-11 July 2014.
- [PAR14b] Daniel Poole, Christian Allen, and Thomas Rendall. Constraint handling in agent-based optimization by independent sub-swarms. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 998–1005, Beijing, China, 6-11 July 2014.
- [Pat14] Ankit Pat. Ant colony optimization and hypergraph covering problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1714–1720, Beijing, China, 6-11 July 2014.
- [PC14a] Wei Pang and George Coghill. An immune network approach to learning qualitative models of biological pathways. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1030–1037, Beijing, China, 6-11 July 2014.
- [PC14b] Petrica Pop and Camelia Chira. A hybrid approach based on genetic algorithms for solving the clustered vehicle routing problem. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 1421–1426, Beijing, China, 6-11 July 2014.
- [PCJSR14] Luiz Mario Lustosa Pascoal, Celso Goncalves Camilo-Junior, Edjalma Queiroz Silva, and Thierson Couto Rosa. A social-evolutionary approach to compose a similarity function used on event recommendation. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 1512–1519, Beijing, China, 6-11 July 2014.
- [PDM+14] Robin C. Purshouse, Kalyanmoy Deb, Maszatul M. Mansor, Sanaz Mostaghim, and Rui Wang. A review of hybrid evolutionary multiple criteria decision making methods. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1147–1154, Beijing, China, 6-11 July 2014.

- [PdPG14] Christiaan Pretorius, Mathys du Plessis, and John Gonsalves. A comparison of neural networks and physics models as motion simulators for simple robotic evolution. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 2793–2800, Beijing, China, 6-11 July 2014.
- [Pet14] Leif Peterson. Evolutionary algorithms applied to likelihood function maximization during Poisson, logistic, and Cox proportional hazards regression analysis. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1054–1061, Beijing, China, 6-11 July 2014.
- [Pla14] Vassilis Plagianakos. Unsupervised clustering and multi-optima evolutionary search. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2383–2390, Beijing, China, 6-11 July 2014.
- [PLL14] Xingguang Peng, Xiaokang Lei, and Kun Liu. Compensate information from multimodal dynamic landscapes: An anti-pathology cooperative coevolutionary algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2578–2584, Beijing, China, 6-11 July 2014.
- [PN14a] Martin Pilat and Roman Neruda. The effect of different local search algorithms on the performance of multi-objective optimizers. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2172–2179, Beijing, China, 6-11 July 2014.
- [PN14b] Shayan Poursoltan and Frank Neumann. A feature-based analysis on the impact of linear constraints for e-constrained differential evolution. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3088–3095, Beijing, China, 6-11 July 2014.
- [PPW⁺14] Diego Perez, Edward Powley, Daniel Whitehouse, Spyridon Samothrakis, Simon Lucas, and Peter Cowling. The 2013 multi-objective physical travelling salesman problem competition. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2314–2321, Beijing, China, 6-11 July 2014.
- [PRM14] Preux Philippe, Munos Remi, and Valko Michal. Bandits attack function optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2245–2252, Beijing, China, 6-11 July 2014.
- [PRN14] Marcio Pereira, Mauro Roisenberg, and Guenther Neto. A topological niching covariance matrix adaptation for multimodal optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2562–2569, Beijing, China, 6-11 July 2014.
- [PTB14] Radka Polakova, Josef Tvrdik, and Petr Bujok. Controlled restart in differential evolution applied to CEC2014 benchmark functions. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2230–2236, Beijing, China, 6-11 July 2014.
- [PZZ14] Zhou Peng, Jinhua Zheng, and Juan Zou. A population diversity maintaining strategy based on dynamic environment evolutionary model for dynamic multiobjective optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 274–281, Beijing, China, 6-11 July 2014.
- [QHGW14] Xiaohu Qian, Min Huang, Taiguang Gao, and Xingwei Wang. An improved ant colony algorithm for winner determination in multi-attribute combinatorial reverse auction. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1917–1921, Beijing, China, 6-11 July 2014.
- [QTPX14] A. K. Qin, Ke Tang, Hong Pan, and Siyu Xia. Self-adaptive differential evolution with local search chains for real-parameter single-objective optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 467–474, Beijing, China, 6-11 July 2014.

- [QXT14] Xin Qiu, Jianxin Xu, and Kay Chen Tan. A novel differential evolution (DE) algorithm for multi-objective optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2391–2396, Beijing, China, 6-11 July 2014.
- [R.14] Rajakumar B. R. Lion algorithm for standard and large scale bilinear system identification: A global optimization based on lion's social behavior. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2116–2123, Beijing, China, 6-11 July 2014.
- [RAG14] Jenna Reps, Uwe Aickelin, and Jonathan Garibaldi. Tuning a multiple classifier system for side effect discovery using genetic algorithms. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 910–917, Beijing, China, 6-11 July 2014.
- [RB14] Thomas Runkler and James Bezdek. Multidimensional scaling with multiswarming. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2940–2946, Beijing, China, 6-11 July 2014.
- [rBM14] Mohammad reza Bonyadi and Zbigniew Michalewicz. On the edge of feasibility: A case study of the particle swarm optimizer. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3059–3066, Beijing, China, 6-11 July 2014.
- [RGMZ14] Matteo Ruello, Francesco Grimaccia, Marco Mussetta, and Riccardo E. Zich. Blackhole PSO and SNO for electromagnetic optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1912–1916, Beijing, China, 6-11 July 2014.
- [Ric14] Hendrik Richter. Codynamic fitness landscapes of coevolutionary minimal substrates. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2692–2699, Beijing, China, 6-11 July 2014.
- [RJB⁺14] Shahryar Rahnamayan, Jude Jesuthasan, Faird Bourennani, Hojjat Salehinejad, and Greg F. Naterer. Computing opposition by involving entire population. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1800–1807, Beijing, China, 6-11 July 2014.
- [RKN14] Pratyusha Rakshit, Amit Konar, and Atulya Nagar. Artificial bee colony induced multi-objective optimization in presence of noise. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 3176– 3183, Beijing, China, 6-11 July 2014.
- [RME14] Stuart Reid, Katherine Malan, and Andries Engelbrecht. Carry trade portfolio optimization using particle swarm optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3051–3058, Beijing, China, 6-11 July 2014.
- [RPEC⁺14] Alejandro Rosales-Perez, Hugo Jair Escalante, Carlos A. Coello Coello, Jesus A. Gonzalez, and Carlos A. Reyes-Garcia. An evolutionary multi-objective approach for prototype generation. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1100–1107, Beijing, China, 6-11 July 2014.
- [RSEC14] Humyun Fuad Rahman, Ruhul Sarker, Daryl Essam, and Guijuan Chang. A memetic algorithm for solving permutation flow shop problems with known and unknown machine breakdowns. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 42–49, Beijing, China, 6-11 July 2014.

- [SAAR14] Jose Luis Soncco-Alvarez and Mauricio Ayala-Rincon. Memetic algorithm for sorting unsigned permutations by reversals. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2770–2777, Beijing, China, 6-11 July 2014.
- [SAFJ14] Hang Shao, Rami Abielmona, Rafael Falcon, and Nathalie Japkowicz. Vessel track correlation and association using fuzzy logic and echo state networks. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2322–2329, Beijing, China, 6-11 July 2014.
- [SAR14] Hemant Singh, Md. Asafuddoula, and Tapabrata Ray. Solving problems with a mix of hard and soft constraints using modified infeasibility driven evolutionary algorithm (IDEA-M). In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 983–990, Beijing, China, 6-11 July 2014.
- [SCFD14] Prashant Singh, Ivo Couckuyt, Francesco Ferranti, and Tom Dhaene. A constrained multi-objective surrogate-based optimization algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3080–3087, Beijing, China, 6-11 July 2014.
- [SCJPR14] Edjalma Queiroz Silva, Celso Goncalves Camilo-Junior, Luiz Mario L. Pascoal, and Thierson Couto Rosa. An evolutionary approach for combining results of recommender systems techniques based on collaborative filtering. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 959–966, Beijing, China, 6-11 July 2014.
- [SCP⁺14] Nicholas Sephton, Peter Cowling, Edward Powley, Daniel Whitehouse, and Nicholas Slaven. Parallelization of information set Monte Carlo tree search. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2290–2297, Beijing, China, 6-11 July 2014.
- [SCSL14] Carlos Segura, Carlos A. Coello Coello, Eduardo Segredo, and Coromoto Leon. An analysis of the automatic adaptation of the crossover rate in differential evolution. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 459–466, Beijing, China, 6-11 July 2014.
- [SCSU14] Simone Scardapane, Danilo Comminiello, Michele Scarpiniti, and Aurelio Uncini. GP-based kernel evolution for L2-regularization networks. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1674–1681, Beijing, China, 6-11 July 2014.
- [SCWCTJ14] Wei Shang-Chia, Yeh Wei-Chang, and Yen Tso-Jung. Pareto simplified swarm optimization for grid-computing reliability and service makspan in grid-RMS. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1593–1600, Beijing, China, 6-11 July 2014.
- [SDJ14] Christopher Smith, John Doherty, and Yaochu Jin. Multi-objective evolutionary recurrent neural network ensemble for prediction of computational fluid dynamic simulations. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2609–2616, Beijing, China, 6-11 July 2014.
- [SE14] Christiaan Scheepers and Andries Engelbrecht. Competitive coevolutionary training of simple soccer agents from zero knowledge. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1210–1217, Beijing, China, 6-11 July 2014.
- [SESE14] Eman Sayed, Daryl Essam, Ruhul Sarker, and Saber Elsayed. A decomposition-based algorithm for dynamic economic dispatch problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1898–1905, Beijing, China, 6-11 July 2014.

- [SGG14] Thatiana Souza, Elizabeth Goldbarg, and Marco Goldbarg. An experimental analysis of evolutionary algorithms for the three-objective oil derivatives distribution problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1982–1989, Beijing, China, 6-11 July 2014.
- [SGHR14] Daniel Smullen, Jonathan Gillett, Joseph Heron, and Shahryar Rahnamayan. Genetic algorithm with self-adaptive mutation controlled by chromosome similarity. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 504–511, Beijing, China, 6-11 July 2014.
- [SIR14] Hemant Singh, Amitay Isaacs, and Tapabrata Ray. A hybrid surrogate based algorithm (HSBA) to solve computationally expensive optimization problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1069–1075, Beijing, China, 6-11 July 2014.
- [SJYZ14] Xiangjing Song, Junzhong Ji, Cuicui Yang, and Xiuzhen Zhang. Ant colony clustering based on sampling for community detection. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 687–692, Beijing, China, 6-11 July 2014.
- [SK14a] Nasser R. Sabar and Graham Kendall. Aircraft landing problem using hybrid differential evolution and simple descent algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 520–527, Beijing, China, 6-11 July 2014.
- [SK14b] Nasser R. Sabar and Graham Kendall. Using harmony search with multiple pitch adjustment operators for the portfolio selection problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 499–503, Beijing, China, 6-11 July 2014.
- [SKDN14] Gerald Schaefer, Bartosz Krawczyk, Niraj Doshi, and Tomoharu Nakashima. Costsensitive texture classification. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 105–108, Beijing, China, 6-11 July 2014.
- [SM14] Martin Schlueter and Masaharu Munetomo. Parallelization for space trajectory optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 832–839, Beijing, China, 6-11 July 2014.
- [SMD14] Ankur Sinha, Pekka Malo, and Kalyanmoy Deb. An improved bilevel evolutionary algorithm based on quadratic approximations. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1870–1877, Beijing, China, 6-11 July 2014.
- [SNI14] Takahiko Sudo, Yusuke Nojima, and Hisao Ishibuchi. Effects of ensemble action selection on the evolution of iterated prisoner's dilemma game strategies. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1195–1201, Beijing, China, 6-11 July 2014.
- [SPB14] Luciano Souza, Ricardo Prudencio, and Flavia Barros. A comparison study of binary multi-objective particle swarm optimization approaches for test case selection. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2164–2171, Beijing, China, 6-11 July 2014.
- [SPL14] David L. St-Pierre and Jialin Liu. Differential evolution algorithm applied to non-stationary bandit problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2397–2403, Beijing, China, 6-11 July 2014.

- [SPV14] Lukas Sekanina, Ondrej Ptak, and Zdenek Vasicek. Cartesian genetic programming as local optimizer of logic networks. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2901–2908, Beijing, China, 6-11 July 2014.
- [SPW14a] Zhe Shi, Yonggang Peng, and Wei Wei. Optimal sizing of DGs and storage for microgrid with interruptible load using improved NSGA-II. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 2108–2115, Beijing, China, 6-11 July 2014.
- [SPW14b] Samuel Stanley, Thomas Palazzolo, and David Warnke. Analyzing prehistoric hunter behavior with cultural algorithms. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2196–2205, Beijing, China, 6-11 July 2014.
- [SRIM14] Shubhra Kanti Karmaker Santu, Md. Mustafizur Rahman, Md. Monirul Islam, and Kazuyuki Murase. Towards better generalization in Pittsburgh learning classifier systems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1666–1673, Beijing, China, 6-11 July 2014.
- [SRT14a] Hojjat Salehinejad, Shahryar Rahnamayan, and Hamid R. Tizhoosh. Micro-differential evolution with vectorized random mutation factor. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2055–2062, Beijing, China, 6-11 July 2014.
- [SRT14b] Hojjat Salehinejad, Shahryar Rahnamayan, and Hamid R. Tizhoosh. Toward using type-II opposition in optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1768–1775, Beijing, China, 6-11 July 2014.
- [SSL14] Eduardo Segredo, Carlos Segura, and Coromoto Leon. Control of numeric and symbolic parameters with a hybrid scheme based on fuzzy logic and hyper-heuristics. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1890–1897, Beijing, China, 6-11 July 2014.
- [SSZ⁺14] Chengyong Si, Jianqiang Shen, Xuan Zou, Lei Wang, and Qidi Wu. Mapping constrained optimization problems to penalty parameters: An empirical study. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3073–3079, Beijing, China, 6-11 July 2014.
- [STKS14] Masaki Suzuki, Setsuo Tsuruta, Rainer Knauf, and Yoshitaka Sakurai. Knowledge acquisition issues for intelligent route optimization by evolutionary computation. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3252–3257, Beijing, China, 6-11 July 2014.
- [SWG14] Lan Shuai, Zhen Wang, and Tao Gong. Simulating the coevolution of language and long-term memory. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1374–1381, Beijing, China, 6-11 July 2014
- [SY14] Yi-En Su and Tian-Li Yu. Use model building on discretization algorithms for discrete EDAs to work on real-valued problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2491–2498, Beijing, China, 6-11 July 2014.
- [SYO14] Hai Shan, Toshiyuki Yasuda, and Kazuhiro Ohkura. A Levy flight-based hybrid artificial bee colony algorithm for solving numerical optimization problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2656–2663, Beijing, China, 6-11 July 2014.

- [SZJ14] Ronghua Shang, Kun Zhang, and Licheng Jiao. A novel algorithm for many-objective dimension reductions: Pareto-PCA-NSGA-II. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 1974—1981, Beijing, China, 6-11 July 2014.
- [TA14a] Jiangjun Tang and Hussein A. Abbass. Behavioral learning of aircraft landing sequencing using a society of probabilistic finite state machines. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 610–617, Beijing, China, 6-11 July 2014.
- [TA14b] Ayad Turky and Salwani Abdullah. Using electromagnetic algorithm for tuning the structure and parameters of neural networks. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 326–331, Beijing, China, 6-11 July 2014.
- [TC14] Jeffrey A. Thompson and Clare Bates Congdon. GAMI-CRM: Using de novo motif inference to detect cis-regulatory modules. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1022–1029, Beijing, China, 6-11 July 2014.
- [TCpC14a] Pei-Chuan Tsai, Chih-Ming Chen, and Ying ping Chen. A novel evaluation function for LT codes degree distribution optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3030–3035, Beijing, China, 6-11 July 2014.
- [TCpC14b] Pei-Chuan Tsai, Chih-Ming Chen, and Ying ping Chen. PSO-based evacuation simulation framework. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1944–1950, Beijing, China, 6-11 July 2014.
- [TF14] Ryoji Tanabe and Alex Fukunaga. Improving the search performance of SHADE using linear population size reduction. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1658–1665, Beijing, China, 6-11 July 2014.
- [TMY14] Hsiao-Yu Tung, Wei-Chiu Ma, and Tian-Li Yu. Novel traffic signal timing adjustment strategy based on genetic algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2353–2360, Beijing, China, 6-11 July 2014.
- [TPB⁺14] Isaac Triguero, Daniel Peralta, Jaume Bacardit, Salvador Garcia, and Francisco Herrera. A combined MapReduce-windowing two-level parallel scheme for evolutionary prototype generation. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3036–3043, Beijing, China, 6-11 July 2014.
- [Tsa14] Jeffrey Tsang. The structure of a probabilistic 2-state finite transducer representation for prisoner's dilemma. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1202–1209, Beijing, China, 6-11 July 2014.
- [TVX+14] Binh Huynh Thi Thanh, Long Tran Van, Hoai Nguyen Xuan, Anh Nguyen Duc, and Truong Pham Manh. Reordering dimensions for radial visualization of multidimensional data a genetic algorithms approach. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 951–958, Beijing, China, 6-11 July 2014.
- [TY14] Kenichi Tamura and Keiichiro Yasuda. Primary study on feedback controlled differential evolution. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 371–378, Beijing, China, 6-11 July 2014.

- [vBVB14] Seppe vanden Broucke, Jan Vanthienen, and Bart Baesens. Declarative process discovery with evolutionary computing. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2412–2419, Beijing, China, 6-11 July 2014.
- [VCO⁺14] Gervasio Varela, Pilar Caamano, Felix Orjales, Alvaro Deibe, Fernando Lopez-Pena, and Richard Duro. Differential evolution in constrained sampling problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2375–2382, Beijing, China, 6-11 July 2014.
- [VMMK⁺14] Andrea Valsecchi, Pablo Mesejo, Linda Marrakchi-Kacem, Stefano Cagnoni, and Sergio Damas. Automatic evolutionary medical image segmentation using deformable models. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 97–104, Beijing, China, 6-11 July 2014.
- [VTNBW14] Fatemeh Vafaee, Gyorgy Turan, Peter Nelson, and Tanya Berger-Wolf. Balancing the exploration and exploitation in an adaptive diversity guided genetic algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2570–2577, Beijing, China, 6-11 July 2014.
- [VVSH14] Joaquim Viegas, Susana Vieira, Joao Sousa, and Elsa Henriques. Metaheuristics for the 3D bin packing problem in the steel industry. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 338–343, Beijing, China, 6-11 July 2014.
- [Wag14] Markus Wagner. Maximising axiomatization coverage and minimizing regression testing time. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2885–2892, Beijing, China, 6-11 July 2014.
- [WCF14] Chung-Wei Wu, Tsung-Che Chiang, and Li-Chen Fu. An ant colony optimization algorithm for multi-objective clustering in mobile ad hoc networks. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2963–2968, Beijing, China, 6-11 July 2014.
- [WCK14] Shinya Watanabe, Yuta Chiba, and Masahiro Kanazaki. A proposal on analysis support system based on association rule analysis for non-dominated solutions. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 880–887, Beijing, China, 6-11 July 2014.
- [WCR⁺14] Michal Weiszer, Jun Chen, Stefan Ravizza, Jason Atkin, and Paul Stewart. A heuristic approach to greener airport ground movement. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3280–3286, Beijing, China, 6-11 July 2014.
- [WD14a] Kuai Wei and Michael J. Dinneen. Hybridizing the dynamic mutation approach with local searches to overcome local optima. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 74–81, Beijing, China, 6-11 July 2014.
- [WD14b] Kuai Wei and Michael J. Dinneen. Runtime comparison of two fitness functions on a memetic algorithm for the clique problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 133–140, Beijing, China, 6-11 July 2014.
- [WFG14] Slawomir Wesolkowski, Nevena Francetic, and Stuart Grant. TraDE: Training device selection via multi-objective optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2617—2624, Beijing, China, 6-11 July 2014.

- [WGC⁺14] Zhao Wang, Maoguo Gong, Qing Cai, Lijia Ma, and Licheng Jiao. Deployment optimization of near space airships based on MOEA/D with local search. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2345–2352, Beijing, China, 6-11 July 2014.
- [WGM⁺14] Shanfeng Wang, Maoguo Gong, Lijia Ma, Qing Cai, and Licheng Jiao. Decomposition based multiobjective evolutionary algorithm for collaborative filtering recommender systems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 672–679, Beijing, China, 6-11 July 2014.
- [WGN14] Sunrise Wang, James Gain, and Geoff Nitschke. Comparing crossover operators in neuro-evolution with crowd simulations. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2298–2305, Beijing, China, 6-11 July 2014.
- [WGZ14] Fangxiao Wang, Yuan Gao, and Zexuan Zhu. Locality-sensitive hashing based multiobjective memetic algorithm for dynamic pickup and delivery problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 661–666, Beijing, China, 6-11 July 2014.
- [WK14] Zijun Wu and Michael Kolonko. Absorption in model-based search algorithms for combinatorial optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1744–1751, Beijing, China, 6-11 July 2014.
- [WKL⁺14] Mengyuan Wu, Ammar Karkar, Bo Liu, Alex Yakovlev, and Georges Gielen. Network on chip optimization based on surrogate model assisted evolutionary algorithms. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3266–3271, Beijing, China, 6-11 July 2014.
- [WL14] Shao-You Wu and Jing-Sin Liu. Evolutionary path planning of a data mule in wireless sensor network by using shortcuts. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2708–2715, Beijing, China, 6-11 July 2014.
- [WLG⁺14] Qiao Wang, Hao Li, Maoguo Gong, Linzhi Su, and Licheng Jiao. A multiobjective optimization method based on MOEA/D and fuzzy clustering for change detection in SAR images. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3024–3029, Beijing, China, 6-11 July 2014.
- [WLJM14] Xiaoguang Wang, Xuan Liu, Nathalie Japkowicz, and Stan Matwin. Automatic target recognition using multiple-aspect sonar images. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2330–2337, Beijing, China, 6-11 July 2014.
- [WLT14] Chia-Lin Wu, Chien-Hung Liu, and Chuan-Kang Ting. A novel genetic algorithm considering measures and phrases for generating melody. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2101–2107, Beijing, China, 6-11 July 2014.
- [WLWL14] Pak-Kan Wong, Leung-Yau Lo, Man-Leung Wong, and Kwong-Sak Leung. Grammar based genetic programming with Bayesian network. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 739–746, Beijing, China, 6-11 July 2014.
- [WN14] Markus Wagner and Frank Neumann. Single- and multi-objective genetic programming: New runtime results for SORTING. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 125–132, Beijing, China, 6-11 July 2014.

- [WTJ⁺14] Takeshi Watanabe, Tomoaki Tatsukawa, Antonio Lopez Jaimes, Hikaru Aono, Taku Nonomura, Akira Oyama, and Kozo Fujii. Many-objective evolutionary computation for optimization of separated-flow control using a DBD plasma actuator. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2849–2854, Beijing, China, 6-11 July 2014.
- [WTY14] Shih-Ming Wang, Yu-Fan Tung, and Tian-Li Yu. Investigation on efficiency of optimal mixing on various linkage sets. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2475–2482, Beijing, China, 6-11 July 2014.
- [WWTY14] Thomas Weise, Mingxu Wan, Ke Tang, and Xin Yao. Evolving exact integer algorithms with genetic programming. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1816–1823, Beijing, China, 6-11 July 2014.
- [WWZ14] Fei Wei, Yuping Wang, and Tingting Zong. Variable grouping based differential evolution using an auxiliary function for large scale global optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1293–1298, Beijing, China, 6-11 July 2014.
- [WXY14] Bo Wang, Hua Xu, and Yuan Yuan. Quantum-inspired evolutionary algorithm with linkage learning. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2467–2474, Beijing, China, 6-11 July 2014.
- [WY14] Yifei Wang and Jihao Yin. Intelligent search optimized edge potential function (EPF) approach to synthetic aperture radar (SAR) scene matching. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2124–2131, Beijing, China, 6-11 July 2014.
- [WYG⁺14] Jianshe Wu, Lin Yuan, Qingliang Gong, Wenping Ma, Jingjing Ma, and Yangyang Li. A compression optimization algorithm for community detection. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 667–671, Beijing, China, 6-11 July 2014.
- [WYLZ14] Lin Wang, Bo Yang, Yi Li, and Na Zhang. A novel improvement of particle swarm optimization using dual factors strategy. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 183–189, Beijing, China, 6-11 July 2014.
- [WZGZ14] Zhenkun Wang, Qingfu Zhang, Maoguo Gong, and Aimin Zhou. A replacement strategy for balancing convergence and diversity in MOEA/D. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2132–2139, Beijing, China, 6-11 July 2014.
- [WZJ14] Nuosi Wu, Zexuan Zhu, and Zhen Ji. A growing partitional clustering based on particle swarm optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 229–234, Beijing, China, 6-11 July 2014.
- [wZjLhC14] Xiang wei Zheng, Dian jie Lu, and Zhen hua Chen. A self-adaptive group search optimizer with elitist strategy. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2033–2039, Beijing, China, 6-11 July 2014.
- [WZW14] Husheng Wu, Fengming Zhang, and Lushan Wu. An uncultivated wolf pack algorithm for high-dimensional functions and its application in parameters optimization of PID controller. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1477–1482, Beijing, China, 6-11 July 2014.

- [WZZ14] Shengli Wang, Xingquan Zuo, and Xinchao Zhao. Solving dynamic double-row layout problem via an improved simulated annealing algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1299–1304, Beijing, China, 6-11 July 2014.
- [XHY14] Changjian Xu, Han Huang, and ShuJin Ye. A differential evolution with replacement strategy for real-parameter numerical optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1617–1624, Beijing, China, 6-11 July 2014.
- [XLH⁺14] Xiaohua Xu, Lin Lu, Ping He, Jie Ding, and Yongsheng Ju. Evolutionary semi-supervised learning with swarm intelligence. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1343–1350, Beijing, China, 6-11 July 2014.
- [XME⁺14] Jing Xie, Yi Mei, Andreas Ernst, Xiaodong Li, and Andy Song. A genetic programming-based hyper-heuristic approach for storage location assignment problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3000–3007, Beijing, China, 6-11 July 2014.
- [XQZ14] Bing Xue, A. K. Qin, and Mengjie Zhang. An archive based particle swarm optimisation for feature selection in classification. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3119–3126, Beijing, China, 6-11 July 2014.
- [XS14] Cheng Xie and Lin Shang. Anomaly detection in crowded scenes using genetic programming. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1832–1839, Beijing, China, 6-11 July 2014.
- [XSC14] Feng Xie, Andy Song, and Vic Ciesielski. Genetic programming based activity recognition on a smartphone sensory data benchmark. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2917–2924, Beijing, China, 6-11 July 2014.
- [XT14] Xiaoyong Xu and Maolin Tang. A new grouping genetic algorithm for the mapreduce placement problem in cloud computing. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1601–1608, Beijing, China, 6-11 July 2014.
- [XTW⁺14] Yang Xiao, Martin Trefzer, James Walker, Simon Bale, and Andy Tyrrell. Two step evolution strategy for device motif BSIM model parameter extraction. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2877–2884, Beijing, China, 6-11 July 2014.
- [XXW14] Jun Xu, Xiangming Xi, and Shuning Wang. Optimization based on adaptive hinging hyperplanes and genetic algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2040–2046, Beijing, China, 6-11 July 2014.
- [XZC14] Tao Xiang, Weimin Zhang, and Fei Chen. A verifiable PSO algorithm in cloud computing. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 190–193, Beijing, China, 6-11 July 2014.
- [YCH14] Zang Yuan, Yingwu Chen, and Renjie He. Agile earth observing satellites mission planning using genetic algorithm based on high quality initial solutions. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 603–609, Beijing, China, 6-11 July 2014.
- [YCLG14] Ming Yang, Zhihua Cai, Changhe Li, and Jing Guan. An improved JADE algorithm for global optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 806–812, Beijing, China, 6-11 July 2014.

- [yDjLqW14] Ming yu Du, Xiu juan Lei, and Zhen qiang Wu. A simplified glowworm swarm optimization algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2861–2868, Beijing, China, 6-11 July 2014.
- [YDP14] Sishi Ye, Guangming Dai, and Lei Peng. A hybrid adaptive coevolutionary differential evolution algorithm for large-scale optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1277–1284, Beijing, China, 6-11 July 2014.
- [YJ14] Ping Yan and Minghai Jiao. A chaotic particle swarm optimization algorithm for the jobshop scheduling problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 218–222, Beijing, China, 6-11 July 2014.
- [YKZT14] Chao Yu, Lingchen Kelley, Shaoqiu Zheng, and Ying Tan. Fireworks algorithm with differential mutation for solving the CEC 2014 competition problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3238–3245, Beijing, China, 6-11 July 2014.
- [YL14a] James J.Q. Yu and Victor O.K. Li. Base station switching problem for green cellular networks with social spider algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2338–2344, Beijing, China, 6-11 July 2014.
- [YL14b] Jyh-Cheng Yu and Zhi-Fu Liang. Evolutionary regional network modeling for efficient engineering optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1258–1264, Beijing, China, 6-11 July 2014.
- [YL14c] Wenchao Yu and Linji Lu. A route planning strategy for the automatic garment cutter based on genetic algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 379–386, Beijing, China, 6-11 July 2014.
- [YLC14] Meng Yang, Rui Li, and Tianguang Chu. A new method and application for controlling the steady-state probability distributions of probabilistic Boolean networks. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1490–1495, Beijing, China, 6-11 July 2014.
- [YLFZ14] Zhile Yang, Kang Li, Aoife Foley, and Cheng Zhang. A new self-learning TLBO algorithm for RBF neural modelling of batteries in electric vehicles. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2685–2691, Beijing, China, 6-11 July 2014.
- [YLL14a] James J.Q. Yu, Albert Y.S. Lam, and Victor O.K. Li. Chemical reaction optimization for the set covering problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 512–519, Beijing, China, 6-11 July 2014.
- [YLL14b] James J.Q. Yu, Victor O.K. Li, and Albert Y.S. Lam. An inter-molecular adaptive collision scheme for chemical reaction optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1998–2004, Beijing, China, 6-11 July 2014.
- [YMZ14] Yang Yu, Hui Ma, and Mengjie Zhang. A genetic programming approach to distributed QoS-aware web service composition. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1840–1846, Beijing, China, 6-11 July 2014.

- [YQ14] Yang Yu and Hong Qian. The sampling-and-learning framework: A statistical view of evolutionary algorithms. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 149–158, Beijing, China, 6-11 July 2014.
- [YSM⁺14] Mitchell Yuwono, Steven W. Su, Bruce D. Moulton, Ying Guo, and Hung T. Nguyen. An algorithm for scalable clustering: Ensemble rapid centroid estimation. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1250–1257, Beijing, China, 6-11 July 2014.
- [YT14] Zeratul Mohd Yusoh and Maolin Tang. Composite SaaS scaling in cloud computing using a hybrid genetic algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1609–1616, Beijing, China, 6-11 July 2014.
- [YTL14] Peng Yang, Ke Tang, and Jose Antonio Lozano. Estimation of distribution algorithms based unmanned aerial vehicle path planner using a new coordinate. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1469–1476, Beijing, China, 6-11 July 2014.
- [YXZQ14] Li Yexing, Cai Xinye, Fan Zhun, and Zhang Qingfu. An external archive guided multiobjective evolutionary approach based on decomposition for continuous optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1124–1130, Beijing, China, 6-11 July 2014.
- [YY14] Toru Yoshida and Tomohiro Yoshikawa. A study on non-correspondence in spread between objective space and design variable space for trajectory designing optimization problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2444–2450, Beijing, China, 6-11 July 2014.
- [YZ14] Shiu Yin Yuen and Xin Zhang. Multiobjective evolutionary algorithm portfolio: Choosing suitable algorithm for multiobjective optimization problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1967–1973, Beijing, China, 6-11 July 2014.
- [YZM14] Meng Yu, Xingquan Zuo, and Chase C. Murray. A tabu search heuristic for the single row layout problem with shared clearances. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 819–825, Beijing, China, 6-11 July 2014.
- [yZWyW14] Huan yu Zheng, Ling Wang, and Sheng yao Wang. A co-evolutionary teaching-learning-based optimization algorithm for stochastic RCPSP. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 587–594, Beijing, China, 6-11 July 2014.
- [YZZ14] Chen Yue, Zhu Zexuan, and Ji Zhen. Feature extraction based on trimmed complex network representation for metabolomic data classification. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 366–370, Beijing, China, 6-11 July 2014.
- [ZDK14] Ling Zhu, Kalyanmoy Deb, and Sandeep Kulkarni. Multi-scenario optimization using multi-criterion methods: A case study on Byzantine agreement problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2601–2608, Beijing, China, 6-11 July 2014.
- [ZDPW14] Yuzhen Zhang, Guangming Dai, Lei Peng, and Maocai Wang. HMOEDA_LLE: A hybrid multi-objective estimation of distribution algorithm combining locally linear embedding. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 707–714, Beijing, China, 6-11 July 2014.

- [ZGZ14] Wei Zhang, Yanan Gao, and Chengxing Zhang. The enhanced vector of convergence for particle swarm optimization based on constrict factor. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1337–1342, Beijing, China, 6-11 July 2014.
- [ZH14] Lifeng Zhang and Rong He. A globally diversified island model PGA for multimodal optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2553–2561, Beijing, China, 6-11 July 2014.
- [ZhDyS+14] Biao Zhang, Jun hua Duan, Hong yan Sang, Jun qing Li, and Hui Yan. A new penalty function method for constrained optimization using harmony search algorithm. In Carlos A. Coello Coello, editor, Proceedings of the 2014 IEEE Congress on Evolutionary Computation, pages 853–859, Beijing, China, 6-11 July 2014.
- [ZJ14] Drahoslav Zan and Jiri Jaros. Solving the multidimensional knapsack problem using a CUDA accelerated PSO. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2933–2939, Beijing, China, 6-11 July 2014.
- [ZJLT14] Shaoqiu Zheng, Andreas Janecek, Junzhi Li, and Ying Tan. Dynamic search in fireworks algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3222–3229, Beijing, China, 6-11 July 2014.
- [ZL14] Geng Zhang and Yangmin Li. Cooperative particle swarm optimizer with elimination mechanism for global optimization of multimodal problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 210–217, Beijing, China, 6-11 July 2014.
- [ZLLT14] Zhongyang Zheng, Junzhi Li, Jie Li, and Ying Tan. Avoiding decoys in multiple targets searching problems using swarm robotics. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 784–791, Beijing, China, 6-11 July 2014.
- [ZLY14] Tao Zhu, Wenjian Luo, and Lihua Yue. Combining multipopulation evolutionary algorithms with memory for dynamic optimization problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2047–2054, Beijing, China, 6-11 July 2014.
- [ZLZ14] Xuezhi Zhu, Wenjian Luo, and Tao Zhu. An improved genetic algorithm for dynamic shortest path problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2093–2100, Beijing, China, 6-11 July 2014.
- [ZM14] Jin Zhang and Dietmar Maringer. Two parameter update schemes for recurrent reinforcement learning. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1449–1453, Beijing, China, 6-11 July 2014.
- [ZPY14] Xing Zhou, Wei Peng, and Bo Yang. GEAS: A GA-ES-mixed algorithm for parameterized optimization problems using CLS problem as an example. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 888–894, Beijing, China, 6-11 July 2014.
- [ZS14] Yujiao Zeng and Yanguang Sun. Comparison of multiobjective particle swarm optimization and evolutionary algorithms for optimal reactive power dispatch problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 258–265, Beijing, China, 6-11 July 2014.

- [ZSA14] Bin Zhang, Kamran Shafi, and Hussein Abbass. Online knowledge-based evolutionary multi-objective optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2222–2229, Beijing, China, 6-11 July 2014.
- [ZSZG14] Hu Zhang, Shenmin Song, Aimin Zhou, and Xiao-Zhi Gao. A clustering based multiobjective evolutionary algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 723–730, Beijing, China, 6-11 July 2014.
- [ZWL14] Kai Zhang, Thomas Weise, and Jinlong Li. Fitness level based adaptive operator selection for cutting stock problems with contiguity. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 2539–2546, Beijing, China, 6-11 July 2014.
- [ZWW14] Xiaolong Zheng, Ling Wang, and Shengyao Wang. An enhanced non-dominated sorting based fruit fly optimization algorithm for solving environmental economic dispatch problem. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 626–633, Beijing, China, 6-11 July 2014.
- [ZXXD14] Xinlu Zong, Shengwu Xiong, Hui Xu, and Pengfei Duan. Space-time simulation model based on particle swarm optimization algorithm for stadium evacuation. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 194–201, Beijing, China, 6-11 July 2014.
- [ZZ14] Zhi-Hui Zhan and Jun Zhang. Adaptive particle swarm optimization with variable relocation for dynamic optimization problems. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1565–1570, Beijing, China, 6-11 July 2014.
- [ZZC14] Yu-Jun Zheng, Bei Zhang, and Zhen Cheng. Hyper-heuristics with penalty parameter adaptation for constrained optimization. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1883–1889, Beijing, China, 6-11 July 2014.
- [ZZCC14] Jianlei Zhang, Chunyan Zhang, Tianguang Chu, and Ming Cao. Cooperation with potential leaders in evolutionary game study of networking agents. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 918–923, Beijing, China, 6-11 July 2014.
- [ZZWY14] Junqi Zhang, Xiong Zhu, Wei Wang, and Jing Yao. A fast restarting particle swarm optimizer. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 1351–1358, Beijing, China, 6-11 July 2014.
- [ZZZ14] Bei Zhang, Min-Xia Zhang, and Yu-Jun Zheng. A hybrid biogeography-based optimization and fireworks algorithm. In Carlos A. Coello Coello, editor, *Proceedings of the 2014 IEEE Congress on Evolutionary Computation*, pages 3200–3206, Beijing, China, 6-11 July 2014.