

Список литературы

- [AA] Daniel Ashlock and Wendy Ashlock. Impact of regulatory genes on optimization behavior. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3403–3410, Brisbane, Australia, 10-15 June 2012.
- [AB] Viswanath Avasarala and Piero Bonissone. iPresage: An innovative patent landscaping tool. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 372–378, Brisbane, Australia, 10-15 June 2012.
- [ABM] Marcos Alvares, Fernando Buarque, and Tshilidzi Marwala. Optimizing risk management using NSGA-II. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 477–484, Brisbane, Australia, 10-15 June 2012.
- [ABO] Aderemi Adewumi, Nigel Budlender, and Micheal Olusanya. Optimizing the assignment of blood in a blood banking system: Some initial results. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 751–756, Brisbane, Australia, 10-15 June 2012.
- [AGRK] Shafiq Alam, Dobbie Gillian, Patricia Riddle, and Yun Sing Koh. Hierarchical PSO clustering based recommender system. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 879–886, Brisbane, Australia, 10-15 June 2012.
- [AH] Laurence Amaral and Estevam Hruschka. Never-ending learning principles in gene ontology classification using genetic algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 676–683, Brisbane, Australia, 10-15 June 2012.
- [AJBW] Wissam Albukhanajer, Yaochu Jin, Johann Briffa, and Godfried Williams. Evolutionary multi-objective optimization of trace transform for invariant feature extraction. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1458–1465, Brisbane, Australia, 10-15 June 2012.
- [AK1] Bahriye Akay and Ibrahim Kirmizi. Structural optimization of wavelet packets using swarm algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2931–2935, Brisbane, Australia, 10-15 June 2012.
- [AK2] Ahmad Almakhlafi and Joshua Knowles. Benchmarks for maintenance scheduling problems in power generation. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3464–3471, Brisbane, Australia, 10-15 June 2012.
- [AK3] Abdullah Alsheddy and Michael Kampouridis. Off-line parameter tuning for guided local search using genetic programming. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 112–116, Brisbane, Australia, 10-15 June 2012.
- [AL] Chun-Kit Au and Ho-Fung Leung. Eigenspace sampling in the mirrored variant of (1,lambda)-CMA-ES. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 871–878, Brisbane, Australia, 10-15 June 2012.
- [ALA] Sameer Alam, Chris Lokan, and Hussein Abbass. What can make an airspace unsafe? characterizing collision risk using multi-objective optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 214–221, Brisbane, Australia, 10-15 June 2012.
- [ALF] Han The Anh, Moniz Pereira Luis, and C. Santos Francisco. Intention recognition, commitment and the evolution of cooperation. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2025–2032, Brisbane, Australia, 10-15 June 2012.

- [ALFP1] Adham Atyabi, Martin Luerksen, Sean P. Fitzgibbon, and David M. W. Powers. Adapting subject-independent task-specific EEG feature masks using PSO. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2155–2161, Brisbane, Australia, 10-15 June 2012.
- [ALFP2] Adham Atyabi, Martin Luerksen, Sean P. Fitzgibbon, and David M. W. Powers. Dimension reduction in EEG data using particle swarm optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2147–2154, Brisbane, Australia, 10-15 June 2012.
- [ALFP3] Adham Atyabi, Martin Luerksen, Sean P. Fitzgibbon, and David M. W. Powers. Evolutionary feature selection and electrode reduction for EEG classification. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 161–168, Brisbane, Australia, 10-15 June 2012.
- [AM] Daniel Ashlock and Sharron McNicholas. Single parent generalization of cellular automata rules. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 263–270, Brisbane, Australia, 10-15 June 2012.
- [AMB] Manuel Abello, Zbigniew Michalewicz, and Lam Thu Bui. A reactive-proactive approach for solving dynamic scheduling with time-varying number of tasks. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2121–2130, Brisbane, Australia, 10-15 June 2012.
- [AMCMM] Alfredo Arias-Montano, Carlos A. Coello Coello, and Efren Mezura-Montes. Multi-objective airfoil shape optimization using a multiple-surrogate approach. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2178–2185, Brisbane, Australia, 10-15 June 2012.
- [AMK] Heyam Albaity, Souham Meshoul, and Ata Kaban. On extending quantum behaved particle swarm optimization to multiobjective context. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1967–1974, Brisbane, Australia, 10-15 June 2012.
- [AMM] Aldeida Aleti, Irene Moser, and Sanaz Mostaghim. Adaptive range parameter control. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2405–2412, Brisbane, Australia, 10-15 June 2012.
- [ARSA] Md Asafuddoula, Tapabrata Ray, Ruhul Sarker, and Khairul Alam. An adaptive constraint handling approach embedded MOEA/D. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2651–2658, Brisbane, Australia, 10-15 June 2012.
- [AS] Kattan Ahmed and Fatima Shaheen. PSO as a meta-search for hyper-GA system to evolve optimal agendas for sequential multi-issue negotiation. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3108–3115, Brisbane, Australia, 10-15 June 2012.
- [ASNZ] Fahmi Abdulhamid, Andy Song, Kourosh Neshatian, and Mengjie Zhang. Evolving genetic programming classifiers with loop structures. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2710–2717, Brisbane, Australia, 10-15 June 2012.
- [ASR] Mostafa Ali, Ayad Salhie, and Robert Reynolds. Socio-cultural evolution via neighborhood restructuring in intricate multi-layered networks. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3387–3394, Brisbane, Australia, 10-15 June 2012.
- [ASSNZ] Harith Al-Sahaf, Andy Song, Kourosh Neshatian, and Mengjie Zhang. Extracting image features for classification by two-tier genetic programming. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1630–1637, Brisbane, Australia, 10-15 June 2012.

- [ATA] Hanan Alghamdi, Lilian Tang, and Saleh Alshomrani. Hybrid ACO and TOFA feature selection approach for text classification. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3184–3189, Brisbane, Australia, 10-15 June 2012.
- [BBA] Vinh Bui, Axel Bender, and Hussein Abbass. An expressive GL-2 grammar for representing story-like scenarios. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2782–2789, Brisbane, Australia, 10-15 June 2012.
- [BBZ⁺] Janez Brest, Borko Boskovic, Ales Zamuda, Iztok Fister, and Mirjam Sepesy Maucec. Self-adaptive differential evolution algorithm with a small and varying population size. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2868–2875, Brisbane, Australia, 10-15 June 2012.
- [Bd] Atilim Gunes Baydin and Ramon Lopez de Mantaras. Evolution of ideas: A novel memetic algorithm based on semantic networks. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2774–2781, Brisbane, Australia, 10-15 June 2012.
- [BFd] Ederson Borges, Daniel G. Ferrari, and Leandro N. de Castro. Silhouette-based clustering using an immune network. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1768–1776, Brisbane, Australia, 10-15 June 2012.
- [BHM] Christopher Beer, Tim Hendtlass, and James Montgomery. Improving exploration in ant colony optimisation with antennation. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2944–2951, Brisbane, Australia, 10-15 June 2012.
- [BK] Krisztian Balazs and Laszlo T. Koczy. Hybrid bacterial iterated greedy heuristics for the permutation flow shop problem. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1497–1504, Brisbane, Australia, 10-15 June 2012.
- [BM] Mohammad Reza Bonyadi and Zbigniew Michalewicz. A fast particle swarm optimization algorithm for the multidimensional knapsack problem. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1402–1409, Brisbane, Australia, 10-15 June 2012.
- [BN1] Hassan Bashir and Richard Neville. Convergence measurement in evolutionary computation using Price’s theorem. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2559–2566, Brisbane, Australia, 10-15 June 2012.
- [BN2] Hassan Bashir and Richard Neville. A hybrid evolutionary computation algorithm for global optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2829–2836, Brisbane, Australia, 10-15 June 2012.
- [BNR⁺] Ricardo Britto, Pedro Santos Neto, Ricardo Rabelo, Werney Ayala, and Thiago Soares. A hybrid approach to solve the agile team allocation problem. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3599–3606, Brisbane, Australia, 10-15 June 2012.
- [BP] Andre Britto and Aurora Pozo. Using archiving methods to control convergence and diversity for many-objective problems in particle swarm optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1646–1653, Brisbane, Australia, 10-15 June 2012.
- [BPN] Stepan Balcar, Martin Pilat, and Roman Neruda. An evolutionary algorithm for 2D semi-guillotinable circular saw cutting. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1908–1912, Brisbane, Australia, 10-15 June 2012.

- [BRK⁺] Pavel Bhowmik, Pratyusha Rakshit, Amit Konar, Eunjin Kim, and Atulya K. Nagar. DE-TDQL: An adaptive memetic algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2444–2451, Brisbane, Australia, 10-15 June 2012.
- [BRT] Sami Barmada, Marco Raugi, and Mauro Tucci. Global optimization algorithm based on self-organizing centroids. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1851–1856, Brisbane, Australia, 10-15 June 2012.
- [BS] Vladimir Bukhtoyarov and Eugene Semenkin. Neural networks ensemble approach for detecting attacks in computer networks. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3078–3083, Brisbane, Australia, 10-15 June 2012.
- [BSA] Bruno Bruck, Andre’ Santos, and Jose’ Arroyo. Hybrid metaheuristic for the single vehicle routing problem with deliveries and selective pickups. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1913–1920, Brisbane, Australia, 10-15 June 2012.
- [BSK] Lucas Benedicic, Mitja Stular, and Peter Korosec. Balancing downlink and uplink soft-handover areas in UMTS networks. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1002–1009, Brisbane, Australia, 10-15 June 2012.
- [BSO] Anthony Brabazon, Arlindo Silva, and Michael O’Neill. Optimal patent design: An agent-based approach. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1102–1109, Brisbane, Australia, 10-15 June 2012.
- [BSS] Richa Bansal, Kamal Srivastava, and Sanjay Srivastava. A hybrid evolutionary algorithm for the cutwidth minimization problem. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2263–2270, Brisbane, Australia, 10-15 June 2012.
- [BSSH⁺] Diego Bodas-Sagi, Francisco J. Soltero, J. Ignacio Hidalgo, Pablo Fernandez-Blanco, and Francisco Fernandez de Vega. A technique for the optimization of the parameters of technical indicators with multi-objective evolutionary algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2493–2500, Brisbane, Australia, 10-15 June 2012.
- [BV] Michal Bidlo and Zdenek Vasicek. Evolution of cellular automata using instruction-based approach. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2057–2064, Brisbane, Australia, 10-15 June 2012.
- [Bvv] Joos Buijs, Boudewijn van Dongen, and Wil van der Aals. A genetic algorithm for discovering process trees. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1929–1936, Brisbane, Australia, 10-15 June 2012.
- [CADC] B. Rosario Campomanes-Alvarez, Sergio Damas, and Oscar Cordon. Mesh simplification for 3D modeling using evolutionary multi-objective optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1364–1371, Brisbane, Australia, 10-15 June 2012.
- [CBB⁺] Pilar Caamano, Francisco Bellas, Jose A. Becerra, Vicente Diaz, and Richard J. Duro. Experimental analysis of the relevance of fitness landscape topographical characterization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3371–3378, Brisbane, Australia, 10-15 June 2012.
- [CBL] Waldo Cancino, Nadia Boukhelifa, and Evelyne Lutton. EvoGraphDice: Interactive evolution for visual analytics. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2286–2293, Brisbane, Australia, 10-15 June 2012.

- [CBSD] Sylvain Cussat-Blanc, Stephane Sanchez, and Yves Duthen. Simultaneous cooperative and conflicting behaviors handled by a gene regulatory network. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1037–1044, Brisbane, Australia, 10-15 June 2012.
- [CCTM] Kee Tong Chang, Kim On Chin, Jason Teo, and James Mountstephens. Game AI generation using evolutionary multi-objective optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 948–955, Brisbane, Australia, 10-15 June 2012.
- [CCV] Ahsan Chowdhury, Madhu Chetty, and Nguyen Vinh. Adaptive regulatory genes cardinality for reconstructing genetic networks. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1285–1292, Brisbane, Australia, 10-15 June 2012.
- [Cd] Luiz Antonio Carraro and Leandro Nunes de Castro. A clonal selection algorithm to minimize reshuffling in container stacking operations. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1777–1784, Brisbane, Australia, 10-15 June 2012.
- [CDA] Uday Chakraborty, Sajal Das, and Travis Abbott. Energy-efficient routing in hierarchical wireless sensor networks using differential-evolution-based memetic algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3427–3434, Brisbane, Australia, 10-15 June 2012.
- [CDD] Ivo Couckuyt, Dirk Deschrijver, and Tom Dhaene. Towards efficient multiobjective optimization: Multiobjective statistical criterions. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2485–2492, Brisbane, Australia, 10-15 June 2012.
- [CG] Shu-Heng Chen and Umberto Gostoli. Coordination in the El Farol bar problem: The role of social preferences and social networks. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1152–1159, Brisbane, Australia, 10-15 June 2012.
- [CGD] Oliver Chikumbo, Erik Goodman, and Kalyanmoy Deb. Approximating a multi-dimensional Pareto front for a land use management problem: A modified MOEA with an epigenetic silencing metaphor. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1529–1537, Brisbane, Australia, 10-15 June 2012.
- [CGI] Camelia Chira, Anca Gog, and David Iclanzan. Evolutionary detection of community structures in complex networks: a new fitness function. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2365–2372, Brisbane, Australia, 10-15 June 2012.
- [CHDW] Xinye Cai, Zhenzhou Hu, Sanjoy Das, and Stephen Welch. A hierarchical pareto dominance based multi-objective approach for the optimization of gene regulatory network models. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1737–1742, Brisbane, Australia, 10-15 June 2012.
- [Che] Stephen Chen. Particle swarm optimization with pbest crossover. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 540–545, Brisbane, Australia, 10-15 June 2012.
- [CJ] Tom Castle and Colin Johnson. Evolving program trees with limited scope variable declarations. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2250–2257, Brisbane, Australia, 10-15 June 2012.
- [CK] Raymond Chiong and Michael Kirley. The evolution of cooperation via stigmergic interactions. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2017–2024, Brisbane, Australia, 10-15 June 2012.

- [CKB⁺] Imen Chaari, Anis Koubaa, Hachemi Bennaceur, Sahar Trigui, and Khaled Al-Shalfan. smartPATH: A hybrid ACO-GA algorithm for robot path planning. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 206–213, Brisbane, Australia, 10-15 June 2012.
- [CLL] Angela Hsiang-Ling Chen, Yun-Chia Liang, and Chia-Chien Liu. An artificial bee colony algorithm for the cardinality-constrained portfolio optimization problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2936–2943, Brisbane, Australia, 10-15 June 2012.
- [CLN] Vic Ciesielski, Brian Lam, and Minh Luan Nguyen. Comparison of evolutionary and conventional feature extraction methods for malt classification. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1349–1355, Brisbane, Australia, 10-15 June 2012.
- [CLNJ] Kit Yan Chan, Sai Ho Ling, Hung Nguyen, and Frank Jiang. A hypoglycemic episode diagnosis system based on neural networks for type 1 diabetes mellitus. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 942–947, Brisbane, Australia, 10-15 June 2012.
- [CMRA⁺] Jesus Conesa-Munoz, Angela Ribeiro, Dionisio Andujar, Cesar Fernandez-Quintanilla, and Jose Dorado. Multi-path planning based on a NSGA-II for a fleet of robots to work on agricultural tasks. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 648–655, Brisbane, Australia, 10-15 June 2012.
- [CRE] Jaime Cepeda, Jose Rueda, and Istvan Erlich. Identification of dynamic equivalents based on heuristic optimization for smart grid applications. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1168–1175, Brisbane, Australia, 10-15 June 2012.
- [CRN] Cassio Rodrigo Conti, Mauro Roisenberg, and Guenther Schwedersky Neto. Acorv - an algorithm that incorporates the visibility heuristic to the ACO in continuous domain. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2952–2959, Brisbane, Australia, 10-15 June 2012.
- [CRO] Hongqing Cao, Friedrich Recknagel, and Philip T. Orr. The experimental study of population-based parameter optimization algorithms on rule-based ecological modelling. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3254–3261, Brisbane, Australia, 10-15 June 2012.
- [CSQ1] Shi Cheng, Yuhui Shi, and Quande Qin. Dynamical exploitation space reduction in particle swarm optimization for solving large scale problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3023–3030, Brisbane, Australia, 10-15 June 2012.
- [CSQ2] Shi Cheng, Yuhui Shi, and Quande Qin. Particle swarm optimization based semi-supervised learning on chinese text categorization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3176–3183, Brisbane, Australia, 10-15 June 2012.
- [CSQ3] Shi Cheng, Yuhui Shi, and Quande Qin. Population diversity based study on search information propagation in particle swarm optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 562–569, Brisbane, Australia, 10-15 June 2012.
- [CT] Siong Huat Ch'ng and Jason Teo. Online evolution of offensive strategies in real-time strategy gaming. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 100–107, Brisbane, Australia, 10-15 June 2012.
- [CTY] Jui-Le Chen, Chun-Wei Tsai, and Chu-Sing Yang. An improved LGA for protein-ligand docking prediction. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 302–307, Brisbane, Australia, 10-15 June 2012.

- [CVL] Catherine Cheung, Julio J. Valdes, and Matthew Li. Use of evolutionary computation techniques for exploration and prediction of helicopter loads. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1130–1137, Brisbane, Australia, 10-15 June 2012.
- [CW] Ming-Liang Chen and Feng-Sheng Wang. Fuzzy optimization for a batch simultaneous saccharification and co-fermentation process by hybrid differential evolution. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2890–2897, Brisbane, Australia, 10-15 June 2012.
- [CWS⁺] Dayanne G Coelho, Elizabeth F Wanner, Sergio R Souza, Eduardo G Carrano, and Robin C Purshouse. A multiobjective evolutionary algorithm for the 2D guillotine strip packing problem. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2009–2016, Brisbane, Australia, 10-15 June 2012.
- [CXM] Stephen Chen, Carlos Xudiera, and James Montgomery. Simulated annealing with threshold convergence. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2537–2543, Brisbane, Australia, 10-15 June 2012.
- [CXZS] Liam Cervante, Bing Xue, Mengjie Zhang, and Lin Shang. Binary particle swarm optimisation for feature selection: A filter based approach. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1877–1884, Brisbane, Australia, 10-15 June 2012.
- [CY] Chi Kin Chow and Shiu Yin Yuen. Continuous non-revisiting genetic algorithm with overlapped search sub-region. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2975–2982, Brisbane, Australia, 10-15 June 2012.
- [CYXS] Ran Cheng, Min Yao, Xiaowei Xue, and Bin Shen. Bisexual evolution: A novel bisexual evolutionary framework based on the fisher’s runaway process. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1952–1959, Brisbane, Australia, 10-15 June 2012.
- [Dah] Palle Dahlstedt. Turn-based evolution as a proposed implementation of artistic creative process. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2637–2643, Brisbane, Australia, 10-15 June 2012.
- [DB] Bernabe Dorronsoro and Pascal Bouvry. Study of different small-world topology generation mechanisms for genetic algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2226–2233, Brisbane, Australia, 10-15 June 2012.
- [DBDC] Rituparna Datta, Michael S. Bittermann, Kalyanmoy Deb, and Ozer Ciftcioglu. Probabilistic constraint handling in the framework of joint evolutionary-classical optimization with engineering applications. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 757–764, Brisbane, Australia, 10-15 June 2012.
- [DCC] Benjamin Daniels, Steven Corns, and Elizabeth Cudney. A comparison of representations for the prediction of ground-level ozone concentration. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2694–2701, Brisbane, Australia, 10-15 June 2012.
- [DCP1] Kusum Deep, Pinkey Chauhan, and Millie Pant. Multi task selection including part mix, tool allocation and process plans in CNC machining centers using new binary PSO. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1823–1830, Brisbane, Australia, 10-15 June 2012.
- [DCP2] Kusum Deep, Pinkey Chauhan, and Millie Pant. Totally disturbed chaotic particle swarm optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1577–1584, Brisbane, Australia, 10-15 June 2012.

- [DD] Rituparna Datta and Kalyanmoy Deb. An adaptive normalization based constrained handling methodology with hybrid bi-objective and penalty function approach. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3137–3144, Brisbane, Australia, 10-15 June 2012.
- [DE] Julien Duhain and Andries Engelbrecht. Towards a more complete classification system for dynamically changing environments. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2742–2749, Brisbane, Australia, 10-15 June 2012.
- [dGML] Jesica de Armas, Yanira Gonzalez, Gara Miranda, and Coromoto Leon. Parallelization of the multi-objective container loading problem. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 37–44, Brisbane, Australia, 10-15 June 2012.
- [Dic] Grant Dick. Niche allocation in spatially-structured evolutionary algorithms with gradients. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2210–2217, Brisbane, Australia, 10-15 June 2012.
- [DJ] Kalyanmoy Deb and Himanshu Jain. Handling many-objective problems using an improved NSGA-II procedure. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 342–349, Brisbane, Australia, 10-15 June 2012.
- [DKG] Olfa Dridi, Saoussen Krichen, and Adel Guitouni. A multi-objective optimization approach for resource assignment and task scheduling problem: Application to maritime domain awareness. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 469–476, Brisbane, Australia, 10-15 June 2012.
- [Dow] Steve Dower. Automatic implementation of evolutionary algorithms on GPUs using ESDL. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3411–3418, Brisbane, Australia, 10-15 June 2012.
- [DP] Douglas Dias and Marco Aurelio Pacheco. Describing quantum-inspired linear genetic programming from symbolic regression problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 907–914, Brisbane, Australia, 10-15 June 2012.
- [DQXM] Ngoc Phong Dao, Quang Uy Nguyen, Xuan Hoai Nguyen, and R I (Bob) McKay. Evolving approximations for the Gaussian Q-function by genetic programming with semantic based crossover. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2515–2520, Brisbane, Australia, 10-15 June 2012.
- [DTMN] Mlungisi Duma, Bhakisipho Twala, Tshilidzi Marwala, and Fulufhelo Nelwamondo. Classification with missing data using multi-layered artificial immune systems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1687–1694, Brisbane, Australia, 10-15 June 2012.
- [DvVB] Jochen De Weerd, Seppe vanden Broucke, Jan Vanthienen, and Bart Baesens. Leveraging process discovery with trace clustering and text mining for intelligent analysis of incident management processes. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1921–1928, Brisbane, Australia, 10-15 June 2012.
- [EA] Mohammed El-Abd. Generalized opposition-based artificial bee colony algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3052–3055, Brisbane, Australia, 10-15 June 2012.
- [EAK] Mohammed El-Abd and Mohamed Kamel. Particle swarm optimization with adaptive bounds. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 169–174, Brisbane, Australia, 10-15 June 2012.

- [EB] Ahmed El-Bouri. An investigation of initial solutions on the performance of an iterated local search algorithm for the permutation flowshop. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2258–2262, Brisbane, Australia, 10-15 June 2012.
- [Eng] Andries Engelbrecht. Particle swarm optimization: Velocity initialization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1410–1417, Brisbane, Australia, 10-15 June 2012.
- [EPV] Michael Epitropakis, Vassilis Plagianakos, and Michael Vrahatis. Multimodal optimization using niching differential evolution with index-based neighborhoods. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2065–2072, Brisbane, Australia, 10-15 June 2012.
- [ES] Andreas Ernst and Gaurav Singh. Lagrangian particle swarm optimization for a resource constrained machine scheduling problem. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1585–1592, Brisbane, Australia, 10-15 June 2012.
- [ESE] Saber Elsayed, Ruhul Sarker, and Daryl Essam. Memetic multi-topology particle swarm optimizer for constrained optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1379–1386, Brisbane, Australia, 10-15 June 2012.
- [ESR] Saber Elsayed, Ruhul Sarker, and Tapabrata Ray. Parameters adaptation in differential evolution. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1138–1145, Brisbane, Australia, 10-15 June 2012.
- [ESS⁺] Vasco M.C. Esteves, Joao M.C. Sousa, Carlos A. Silva, Ana P. B. Pova, and Maria Isabel Gomes. Scant-design: Closed loop supply chain design using ant colony optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3056–3063, Brisbane, Australia, 10-15 June 2012.
- [ETP⁺] Michael Epitropakis, Dimitris Tasoulis, Nicos Pavlidis, Vassilis Plagianakos, and Michael Vrahatis. Tracking particle swarm optimizers: An adaptive approach through multinomial distribution tracking with exponential forgetting. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1712–1719, Brisbane, Australia, 10-15 June 2012.
- [FA] Rafael Falcon and Rami Abielmona. A response-aware risk management framework for search-and-rescue operations. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1333–1340, Brisbane, Australia, 10-15 June 2012.
- [Fa_j] Iztok Fajfar. Selection strategies and random perturbations in differential evolution. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1836–1842, Brisbane, Australia, 10-15 June 2012.
- [FBL] Leonardo Fonseca, Helio Barbosa, and Afonso Lemonge. A study on fitness inheritance for enhanced efficiency in real-coded genetic algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 71–78, Brisbane, Australia, 10-15 June 2012.
- [FDSJ] Zary Forghany, Mohsen Davarynejad, and Ewa Snaar-Jagalska. Gene regulatory network model identification using artificial bee colony and swarm intelligence. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1272–1277, Brisbane, Australia, 10-15 June 2012.
- [FFBZ] Iztok Fister, Iztok Fister, Jr., Janez Brest, and Viljem Zumer. Memetic artificial bee colony algorithm for large-scale global optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3015–3022, Brisbane, Australia, 10-15 June 2012.

- [FJZ1] Wenlong Fu, Mark Johnston, and Mengjie Zhang. Genetic programming for edge detection via balancing individual training images. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2702–2709, Brisbane, Australia, 10-15 June 2012.
- [FJZ2] Wenlong Fu, Mark Johnston, and Mengjie Zhang. Soft edge maps from edge detectors evolved by genetic programming. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1356–1363, Brisbane, Australia, 10-15 June 2012.
- [FKZ⁺] Xing Fang, Nicholas Kocaja, Justin Zhan, Gerry Dozier, and Dasgupta Dipankar. An artificial immune system for phishing detection. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 392–398, Brisbane, Australia, 10-15 June 2012.
- [FL] Bogdan Filipic and Ivan Lorencin. Evolutionary multiobjective design of an alternative energy supply system. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 257–262, Brisbane, Australia, 10-15 June 2012.
- [FLF] Sevan G. Ficici, Enoch Liu, and Gary B. Fogel. Evolutionary algorithms for supertree search. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1293–1300, Brisbane, Australia, 10-15 June 2012.
- [FNBD] Rodrigo Faccioli, Ivan Nunes da Silva, Leandro Bortot, and Alexandre Delbem. A mono-objective evolutionary algorithm with GROMACS for protein structure prediction in structural and energetic contexts. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 900–906, Brisbane, Australia, 10-15 June 2012.
- [FOTT] Liang Feng, Yew Soon Ong, Ivor Tsang, and Ah Hwee Tan. An evolutionary search paradigm that learns with past experiences. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2813–2820, Brisbane, Australia, 10-15 June 2012.
- [FS] Xie Feng and Andy Song. Evolving frame splitters by genetic programming. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1466–1472, Brisbane, Australia, 10-15 June 2012.
- [FSTY] Haobo Fu, Bernhard Sendhoff, Ke Tang, and Xin Yao. Characterizing environmental changes in robust optimization over time. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1593–1600, Brisbane, Australia, 10-15 June 2012.
- [FSW⁺] Wei Fang, Jun Sun, Xiaojun Wu, Wenbo Xu, and Palade Vasile. Study on the compression-expansion coefficient in drift particle swarm optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 857–862, Brisbane, Australia, 10-15 June 2012.
- [GA] Garrison Greenwood and Daniel Ashlock. Evolutionary games and the study of cooperation: Why has so little progress been made? In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1207–1214, Brisbane, Australia, 10-15 June 2012.
- [GC] David J. Gagne and Clare Bates Congdon. Preliminary results for GAMMI: Genetic algorithms for motif-module inference. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1309–1316, Brisbane, Australia, 10-15 June 2012.
- [GCLM] Maoguo Gong, Qing Cai, Yangyang Li, and Jingjing Ma. An improved memetic algorithm for community detection in complex networks. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3347–3354, Brisbane, Australia, 10-15 June 2012.

- [GCS⁺] Arnab Ghosh, Arkabandhu Chowdhury, Subhajit Sinha, Athanasios V. Vasilakos, and Swagatam Das. A genetic lbest PSO with dynamically varying subswarm topology. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 669–675, Brisbane, Australia, 10-15 June 2012.
- [GEKY] Jacomine Grobler, Andries P. Engelbrecht, Graham Kendall, and Sarma Yadavalli. Investigating the use of local search for improving meta-hyper-heuristic performance. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3324–3331, Brisbane, Australia, 10-15 June 2012.
- [GGC⁺] Avishek Ghosh, Arnab Ghosh, Arkabandhu Chowdhury, Amit Konar, Eunjin Kim, and Atulya K. Nagar. Linear phase low pass FIR filter design using genetic particle swarm optimization with dynamically varying neighborhood technique. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1570–1576, Brisbane, Australia, 10-15 June 2012.
- [GHMB] Armin Gruenewald, Simon Hardt, Matthias Mielke, and Rainer Brueck. A decentralized charge management for electric vehicles using a genetic algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3519–3525, Brisbane, Australia, 10-15 June 2012.
- [GnCZ] Yu Guo, Wei neng Chen, and Jun Zhang. Enhancing the performance of evolutionary algorithms—a novel maturity-based adaptation strategy. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 570–577, Brisbane, Australia, 10-15 June 2012.
- [GS] Tao Gong and Lan Shuai. A cross-model study on the effect of power-laws on language evolution. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3286–3293, Brisbane, Australia, 10-15 June 2012.
- [GSB] Kaizhou Gao, Ponnuthurai Nagarathnam Suganthan, and Zhenqiang Bao. A composite heuristic for the no-wait flow shop scheduling. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1125–1129, Brisbane, Australia, 10-15 June 2012.
- [GSF1] Falko Guderian, Rainer Schaffer, and Gerhard Fettweis. Administration- and communication-aware IP core mapping in scalable multiprocessor system-on-chips via evolutionary computing. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1434–1441, Brisbane, Australia, 10-15 June 2012.
- [GSF2] Falko Guderian, Rainer Schaffer, and Gerhard Fettweis. Dimensioning the heterogeneous multicluster architecture via parallelism analysis and evolutionary computing. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1426–1433, Brisbane, Australia, 10-15 June 2012.
- [GSML] Sverre Gunnersen, Kate Smith-Miles, and Vincent Lee. Towards objective data selection in bankruptcy prediction. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 9–16, Brisbane, Australia, 10-15 June 2012.
- [GTPS] Jonathan Goh, Lilian Tang, Tunde Peto, and George Saleh. An evolutionary approach for determining hidden markov model for medical image analysis. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3511–3518, Brisbane, Australia, 10-15 June 2012.
- [gWbLZpW] Wen guan Wang, Ying biao Ling, Jun Zhang, and Yu ping Wang. Ant colony optimization algorithm for analog filter design. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3072–3077, Brisbane, Australia, 10-15 June 2012.

- [GYSL] Dunwei Gong, Lei Yang, Xiaoyan Sun, and Ming Li. Applying knowledge of users with similar preference to construct surrogate models of IGAs. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3168–3175, Brisbane, Australia, 10-15 June 2012.
- [GZ] Caroline Gagne and Arnaud Zinflou. An hybrid algorithm for the industrial car sequencing problem. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 279–286, Brisbane, Australia, 10-15 June 2012.
- [Han] Hisashi Handa. Use of graph kernels in estimation of distribution algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3563–3568, Brisbane, Australia, 10-15 June 2012.
- [HC] Wei-Huai Hsu and Tsung-Che Chiang. A multiobjective evolutionary algorithm with enhanced reproduction operators for the vehicle routing problem with time windows. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2750–2757, Brisbane, Australia, 10-15 June 2012.
- [HCF1] Ping-Che Hsiao, Tsung-Che Chiang, and Li-Chen Fu. Particle swarm optimization for the minimum energy broadcast problem in wireless ad-hoc networks. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3100–3107, Brisbane, Australia, 10-15 June 2012.
- [HCF2] Ping-Che Hsiao, Tsung-Che Chiang, and Li-Chen Fu. A VNS-based hyper-heuristic with adaptive computational budget of local search. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3316–3323, Brisbane, Australia, 10-15 June 2012.
- [HCV] David Haynes, Steven Corns, and Ganesh Venayagamoorthy. An exponential moving average algorithm: Evolutionary algorithms applied to sudoku puzzles. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3214–3221, Brisbane, Australia, 10-15 June 2012.
- [HE] Marde Helbig and Andries Engelbrecht. Analyses of guide update approaches for vector evaluated particle swarm optimisation on dynamic multi-objective optimisation problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2726–2733, Brisbane, Australia, 10-15 June 2012.
- [Hen] Tim Hendtlass. Restarting particle swarm optimisation. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1720–1728, Brisbane, Australia, 10-15 June 2012.
- [HHOM] Yoshiko Hanada, Nagahiro Hosokawa, Keiko Ono, and Mitsuji Muneyasu. Effectiveness of multi-step crossover fusions in genetic programming. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2389–2396, Brisbane, Australia, 10-15 June 2012.
- [HLC] Tzung-Pei Hong, Feng-Shih Lin, and Chun-Hao Chen. Using the group genetic algorithm for attribute clustering. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 923–927, Brisbane, Australia, 10-15 June 2012.
- [HLL⁺] Chih-Li Huo, Shu-Yan Lin, Tzu-Ying Lai, Yean-Shain Lien, and Tsung-Ying Sun. Multi-objective differential evolution with taguchi-based adjustable proportional distribution. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2194–2201, Brisbane, Australia, 10-15 June 2012.
- [HLYS] Chih-Li Huo, Yean-Shain Lien, Yu-Hsiang Yu, and Tsung-Ying Sun. Effectively multi-swarm sharing management for differential evolution. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2798–2805, Brisbane, Australia, 10-15 June 2012.

- [HMB] Philip Hingston, Martin Masek, and Daniel Beard. Using Monte Carlo tree search for replanning in a multistage simultaneous game. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1231–1238, Brisbane, Australia, 10-15 June 2012.
- [HMU] Medria Hardhienata, Kathryn Merrick, and Valeri Ugrinovskii. Task allocation in multi-agent systems using models of motivation and leadership. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1418–1425, Brisbane, Australia, 10-15 June 2012.
- [HNZ] Rachel Hunt, Kouros Neshatian, and Mengjie Zhang. Scalability analysis of genetic programming classifiers. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 509–516, Brisbane, Australia, 10-15 June 2012.
- [HOC] Hsueh En Huang, Yew-Soon Ong, and Xianshun Chen. Autonomous flock brush for non-photorealistic rendering. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2597–2604, Brisbane, Australia, 10-15 June 2012.
- [HOK] Emrah Hancer, Celal Ozturk, and Dervis Karaboga. Artificial bee colony based image clustering. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2926–2930, Brisbane, Australia, 10-15 June 2012.
- [HP] Mazen Hussein and Matthew Petering. Genetic algorithm-based simulation optimization of stacking algorithms for yard cranes to reduce fuel consumption at seaport container transshipment terminals. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1993–2000, Brisbane, Australia, 10-15 June 2012.
- [HRS] David Hadka, Patrick Reed, and Timothy Simpson. Diagnostic assessment of the Borg MOEA for many-objective product family design problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1975–1984, Brisbane, Australia, 10-15 June 2012.
- [HS1] Ayub Hanif and Robert Smith. Generation path-switching in sequential Monte-Carlo methods. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1045–1051, Brisbane, Australia, 10-15 June 2012.
- [HS2] Sheldon Hui and Ponnuthurai Nagaratnam Suganthan. Ensemble differential evolution with dynamic subpopulations and adaptive clearing for solving dynamic optimization problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2629–2636, Brisbane, Australia, 10-15 June 2012.
- [HSE] Noha Hamza, Ruhul Sarker, and Daryl Essam. Differential evolution with a mix of constraint consensus methods for solving a real-world optimization problem. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1118–1124, Brisbane, Australia, 10-15 June 2012.
- [HSHS] Trent Higgs, Bela Stantic, Tamjidul Hoque, and Abdul Sattar. Refining genetic algorithm twin removal for high-resolution protein structure prediction. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 182–189, Brisbane, Australia, 10-15 June 2012.
- [HW1] Wesam Herbawi and Michael Weber. A genetic local search algorithm for multiobjective time-dependent route planning. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 137–143, Brisbane, Australia, 10-15 June 2012.
- [HW2] Wesam Herbawi and Michael Weber. The ridematching problem with time windows in dynamic ridesharing: A model and a genetic algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3547–3554, Brisbane, Australia, 10-15 June 2012.

- [HXD⁺] Deqing Huang, Jian-Xin Xu, Xin Deng, Venkatakrishnan Venkataramanan, and Huynh The Cat Tuong. GA based high-order peak filter design with application to compensation of contact-induced vibration in HDD servo systems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3435–3442, Brisbane, Australia, 10-15 June 2012.
- [HY] Zhenan He and Gary Yen. A new fitness evaluation method based on fuzzy logic in multiobjective evolutionary algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 439–446, Brisbane, Australia, 10-15 June 2012.
- [hZZhSHl] Zhi hui Zhan, Jun Zhang, Yu hui Shi, and Liu Hai-lin. A modified brain storm optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2544–2551, Brisbane, Australia, 10-15 June 2012.
- [IC] David Iclanzan and Camelia Chira. Modeling and replicating higher-order dependencies in genetic algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 863–870, Brisbane, Australia, 10-15 June 2012.
- [IE] Hamid Izadinia and Mohammad Mehdi Ebadzadeh. Adaptive quantum-inspired evolution strategy. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1760–1767, Brisbane, Australia, 10-15 June 2012.
- [IHN1] Hisao Ishibuchi, Koichiro Hoshino, and Yusuke Nojima. Evolution of strategies in a spatial IPD game with a number of different representation schemes. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1215–1222, Brisbane, Australia, 10-15 June 2012.
- [IHN2] Hisao Ishibuchi, Koichiro Hoshino, and Yusuke Nojima. Strategy evolution in a spatial IPD game where each agent is not allowed to play against itself. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1191–1198, Brisbane, Australia, 10-15 June 2012.
- [Jar] Jiri Jaros. Multi-GPU island-based genetic algorithm for solving the knapsack problem. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 236–243, Brisbane, Australia, 10-15 June 2012.
- [JBP] Olacir Castro Junior, Andre Britto, and Aurora Pozo. A comparison of methods for leader selection in many-objective problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1654–1661, Brisbane, Australia, 10-15 June 2012.
- [jGZ] Yue jiao Gong and Jun Zhang. Real-time traffic signal control for roundabouts by using a novel PSO-based fuzzy controller. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 771–778, Brisbane, Australia, 10-15 June 2012.
- [JHG] Haken Jevne, Pauline Haddow, and Alexei Gaivoronski. Evolving constrained mean-VaR efficient frontiers. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1079–1086, Brisbane, Australia, 10-15 June 2012.
- [JHwZ⁺] Xu Juan, Chen Han-wu, Liu Zhihao, Ruan Yue, and Zhu Wanning. Quantum secret sharing without exclusive OR of qubits’ measuring results. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1675–1678, Brisbane, Australia, 10-15 June 2012.
- [JK] Claire Diora Jordan and Trent Kroeger. An evolutionary algorithm for bilevel optimisation of men’s team pursuit track cycling. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2325–2332, Brisbane, Australia, 10-15 June 2012.

- [JL] Qin Jin and Zhenjun Liang. A naive particle swarm optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 29–36, Brisbane, Australia, 10-15 June 2012.
- [JLG⁺] Gareth Jones, Chris Lovell, Steve Gunn, Hywel Morgan, and Klaus-Peter Zauner. Enabling the discovery of computational characteristics of enzyme dynamics. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2452–2459, Brisbane, Australia, 10-15 June 2012.
- [JM] Fan Jianchao and Han Min. Nonlinear model predictive control of ball-plate system based on gaussian particle swarm optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3116–3121, Brisbane, Australia, 10-15 June 2012.
- [Joh] Colin Johnson. Search-based evolutionary operators for extensionally-defined search spaces: Applications to image search. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2279–2285, Brisbane, Australia, 10-15 June 2012.
- [JSR⁺] Arindam Jati, Garima Singh, Pratyusha Rakshit, Amit Konar, Eunjin Kim, and Atulya K. Nagar. A hybridisation of improved harmony search and bacterial foraging for multi-robot motion planning. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 431–438, Brisbane, Australia, 10-15 June 2012.
- [JTHC] Yunzhi Jiang, Pohsiang Tsai, Zhifeng Hao, and Longbing Cao. A novel auto-parameters selection process for image segmentation. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2666–2672, Brisbane, Australia, 10-15 June 2012.
- [JTZH] Zhen Ji, Tao Tian, Zexuan Zhu, and Shan He. A memory binary particle swarm optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1831–1835, Brisbane, Australia, 10-15 June 2012.
- [KBB] Ahmed Kafafy, Ahmed Bounekkar, and Stephane Bonnevay. Hybrid metaheuristics based on MOEA/D for 0/1 multiobjective knapsack problems: A comparative study. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3300–3307, Brisbane, Australia, 10-15 June 2012.
- [KCD1] Saghar Khadem, Kit Yan Chan, and Tharam Dillon. Optimization of neural network configurations for short-term traffic flow forecasting using orthogonal design. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1184–1190, Brisbane, Australia, 10-15 June 2012.
- [KCD⁺2] Marcel Kroetz, Tania Centeno, Myriam Delgado, Leyza Dorini, Vitor Fylyk, Allan Vieira, Luis Lucas, and Marcelo Felisberto. Genetic algorithms to automatic weld bead detection in double wall double image digital radiographs. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 578–584, Brisbane, Australia, 10-15 June 2012.
- [KG] Ahmed Kattan and Edgar Galvan. Evolving radial basis function networks via GP for estimating fitness values using surrogate models. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3161–3167, Brisbane, Australia, 10-15 June 2012.
- [KGST] Michael Kampouridis, Tim Glover, Ali Rais Shaghaghi, and Edward Tsang. Using a genetic algorithm as a decision support tool for the deployment of fiber optic networks. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3585–3592, Brisbane, Australia, 10-15 June 2012.

- [KK] Oleg Kovarik and Pavel Kordik. Max-min ant system with linear memory complexity. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 322–326, Brisbane, Australia, 10-15 June 2012.
- [KLH] Stephen Kelly, Peter Lichodziejewski, and Malcolm I. Heywood. On run time libraries and hierarchical symbiosis. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3278–3285, Brisbane, Australia, 10-15 June 2012.
- [KLL] David Koloseni, Jouni Lampinen, and Pasi Luukka. Differential evolution classifier with optimized distance measures from a pool of distances. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2806–2812, Brisbane, Australia, 10-15 June 2012.
- [KMN] Kangil Kim, Bob (R.I) McKay, and Nguyen Xuan Hoai. Implicit bias in grammar-based estimation of distribution genetic programming: The effects of recursive structure. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2373–2380, Brisbane, Australia, 10-15 June 2012.
- [Kni] Anthony Knittel. Learning feature hierarchies under reinforcement. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2420–2427, Brisbane, Australia, 10-15 June 2012.
- [KP] Pravesh Kumar and Millie Pant. Enhanced mutation strategy for differential evolution. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2884–2889, Brisbane, Australia, 10-15 June 2012.
- [KRK⁺] Gene M. Ko, A. Srinivas Reddy, Sunil Kumar, Rajni Garg, Barbara A. Bailey, and Ahmad R. Hadaegh. Differential evolution-binary particle swarm optimization algorithm for the analysis of aryl beta-diketo acids for HIV-1 integrase inhibition. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1278–1284, Brisbane, Australia, 10-15 June 2012.
- [KS] Peter Korosec and Jurij Silc. The continuous differential ant-stigmergy algorithm applied to dynamic optimization problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 447–454, Brisbane, Australia, 10-15 June 2012.
- [KSP⁺] Pavel Kromer, Vaclav Snasel, Jan Platos, Milos Kudelka, and Zdenek Horak. An ACO inspired weighting approach for the spectral partitioning of co-authorship networks. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3659–3665, Brisbane, Australia, 10-15 June 2012.
- [KT] Korhan Karabulut and M. Fatih Tasgetiren. A discrete artificial bee colony algorithm for the traveling salesman problem with time windows. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3038–3044, Brisbane, Australia, 10-15 June 2012.
- [KXF⁺] Jialiang Kou, Shengwu Xiong, Zhixiang Fang, Xinlu Zong, and Feifei Bian. Positive point charge potential field based ACO algorithm for multi-objective evacuation routing optimization problem. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3064–3071, Brisbane, Australia, 10-15 June 2012.
- [KY] Fumiya Kudo and Tomohiro Yoshikawa. Knowledge extraction in multi-objective optimization problem based on visualization of pareto solutions. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1871–1876, Brisbane, Australia, 10-15 June 2012.
- [LAO] Lae-Kyoung Lee, Su-Yong An, and Se-Young Oh. Robust fingertip extraction with improved skin color segmentation for finger gesture recognition in human-robot interaction. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 45–51, Brisbane, Australia, 10-15 June 2012.

- [LBB] Afonso Lemonge, Helio Barbosa, and Heder Bernardino. A family of adaptive penalty schemes for steady-state genetic algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1554–1561, Brisbane, Australia, 10-15 June 2012.
- [LBE] Erandi Lakshika, Michael Barlow, and Adam Easton. Fidelity and complexity of standing group conversation simulations: A framework for the evolution of multi agent systems through bootstrapping human aesthetic judgments. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2033–2040, Brisbane, Australia, 10-15 June 2012.
- [LC] Myeong-Chun Lee and Sung-Bae Cho. Interactive differential evolution for image enhancement application in smart phone. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 887–892, Brisbane, Australia, 10-15 June 2012.
- [LCG] Hai-Lin Liu, Wen-Qin Chen, and Fangqing Gu. A novel multi-objective differential evolutionary algorithm based sub-region search. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 244–249, Brisbane, Australia, 10-15 June 2012.
- [LCJVR] Jailton Louzada, Celso Camilo-Junior, Auri Vincenzi, and Cassio Rodrigues. An elitist evolutionary algorithm for automatically generating test data. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 455–462, Brisbane, Australia, 10-15 June 2012.
- [LCLW] Yangyang Li, Jing Chen, Ruochen Liu, and Jianshe Wu. A spectral clustering-based adaptive hybrid multi-objective harmony search algorithm for community detection. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3308–3315, Brisbane, Australia, 10-15 June 2012.
- [LCT] Marlon Lima, Eduardo Carrano, and Ricardo Takahashi. Multiobjective planning of wireless local area networks (wlan) using genetic algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3526–3533, Brisbane, Australia, 10-15 June 2012.
- [LCX⁺] Zhihao Liu, Hanwu Chen, Juan Xu, Wenqian Li, and Zhigang Li. Deterministic secure quantum communication with mutual authentication based on bell measurement. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1751–1755, Brisbane, Australia, 10-15 June 2012.
- [LCY] Yao Liu, Yuk Ying Chung, and Wei Chang Yeh. Simplified swarm optimization with sorted local search for golf data classification. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 795–802, Brisbane, Australia, 10-15 June 2012.
- [Ld] Oscar J. Romero Lopez and Angelica de Antonio. Evolving the way of doing the right thing. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2573–2580, Brisbane, Australia, 10-15 June 2012.
- [LDAR] Thillainathan Logenthiran, Srinivasan Dipti, M. Khambadkone Ashwin, and Thangavelu Sundar Raj. Optimal sizing of distributed energy resources for integrated microgrids using evolutionary strategy. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 144–151, Brisbane, Australia, 10-15 June 2012.
- [LG] Yanjuan Li and Maozu Guo. Phase transition and new fitness function based genetic inductive loigc programming algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 956–963, Brisbane, Australia, 10-15 June 2012.

- [LGJB] Dongseop Lee, Luis Felipe Gonzalez, Periaux Jacques, and Gabriel Bugada. Multi-objective design optimization of morphing UAV aerofoil/wing using hybridised MOGA. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1743–1750, Brisbane, Australia, 10-15 June 2012.
- [LH] Qiang Lu and Qing-Long Han. A finite-time particle swarm optimization algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 841–848, Brisbane, Australia, 10-15 June 2012.
- [LHH] Jenn-Long Liu, Yu-Tzu Hsu, and Chih-Lung Hung. Development of evolutionary data mining algorithms and their applications to cardiac disease diagnosis. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 690–697, Brisbane, Australia, 10-15 June 2012.
- [LJ] Yun-Chia Liang and Josue Rodolfo Cuevas Juarez. Multilevel image thresholding using relative entropy and virus optimization algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3238–3245, Brisbane, Australia, 10-15 June 2012.
- [LJZH1] Ling Lin, Zhen Ji, Zexuan Zhu, and Shan He. A crown jewel defense strategy based particle swarm optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1817–1822, Brisbane, Australia, 10-15 June 2012.
- [LJZH2] Wenmin Liu, Zhen Ji, Zexuan Zhu, and Shan He. Survival analysis of gene expression data using PSO based radial basis function networks. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3095–3099, Brisbane, Australia, 10-15 June 2012.
- [LLL] Ruochen Liu, Yong Liu, and Yangyang Li. An improved method for multi-objective clustering ensemble algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3355–3362, Brisbane, Australia, 10-15 June 2012.
- [LLMH1] Bing Li, Xianneng Li, Shingo Mabu, and Kotaro Hirasawa. Towards automatic discovery and reuse of subroutines in variable size genetic network programming. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 485–492, Brisbane, Australia, 10-15 June 2012.
- [LLMH2] Xianneng Li, Bing Li, Shingo Mabu, and Kotaro Hirasawa. A continuous estimation of distribution algorithm by evolving graph structures using reinforcement learning. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2097–2104, Brisbane, Australia, 10-15 June 2012.
- [LLT] Francois Legillon, Arnaud Liefoghe, and El-Ghazali Talbi. CoBRA: A cooperative coevolutionary algorithm for bi-level optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 735–742, Brisbane, Australia, 10-15 June 2012.
- [LLW] Albert Y.S. Lam, Victor O.K. Li, and Zhao Wei. Chemical reaction optimization for the fuzzy rule learning problem. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3084–3091, Brisbane, Australia, 10-15 June 2012.
- [LM] Henry Lehmann and Stefan Menzel. Evolvability as concept for the optimal design of free-form deformation control volumes. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 517–524, Brisbane, Australia, 10-15 June 2012.

- [LMH] Benjamin Lacroix, Daniel Molina, and Francisco Herrera. Region based memetic algorithm with LS chaining. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 386–391, Brisbane, Australia, 10-15 June 2012.
- [LMP] Antonio LaTorre, Santiago Muelas, and Jose-Maria Pena. Multiple offspring sampling in large scale global optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 964–971, Brisbane, Australia, 10-15 June 2012.
- [LMQN] J. J. Liang, S. T. Ma, B. Y. Qu, and Ben Niu. Strategy adaptative memetic crowding differential evolution for multimodal optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2919–2925, Brisbane, Australia, 10-15 June 2012.
- [LNL⁺] Sai Ho Ling, Hung Nguyen, Frank H.F. Leung, Kit Yan Chan, and Frank Jiang. Intelligent fuzzy particle swarm optimization with cross-mutated operation. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1176–1183, Brisbane, Australia, 10-15 June 2012.
- [LNOS] Julien Lepagnot, Amir Nakib, Hamouche Oulhadj, and Patrick Siarry. A dynamic multi-agent algorithm applied to challenging benchmark problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2621–2628, Brisbane, Australia, 10-15 June 2012.
- [LOM⁺] Minh Nghia Le, Yew Soon Ong, Stefan Menzel, Chun-Wei Seah, and Bernhard Sendhoff. Multi co-objective evolutionary optimization: Cross surrogate augmentation for computationally expensive problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2911–2918, Brisbane, Australia, 10-15 June 2012.
- [LP] Valerio Lattarulo and Geoffrey T. Parks. A preliminary study of a new multi-objective optimization algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1793–1800, Brisbane, Australia, 10-15 June 2012.
- [LpC] Jih-Yiing Lin and Ying ping Chen. When and what kind of memetic algorithms perform well. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2821–2828, Brisbane, Australia, 10-15 June 2012.
- [LPM] Antonio Leitao, Francisco B. Pereira, and Penousal Machado. Enhancing cluster geometry optimization with island models. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2218–2225, Brisbane, Australia, 10-15 June 2012.
- [LQSN] Jane Jing Liang, Boyang Qu, P. N. Suganthan, and Ben Niu. Dynamic multi-swarm particle swarm optimization for multi-objective optimization problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1638–1645, Brisbane, Australia, 10-15 June 2012.
- [LSLN] Zhihui Li, Zhigang Shang, J. J. Liang, and Ben Niu. An improved differential evolution for constrained optimization with dynamic constraint-handling mechanism. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 17–22, Brisbane, Australia, 10-15 June 2012.
- [LT1] Chien-Chih Liao and Chuan-Kang Ting. Extending the lifetime of dynamic wireless sensor networks by genetic algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1016–1023, Brisbane, Australia, 10-15 June 2012.

- [LT2] Xin-Lan Liao and Chuan-Kang Ting. Evolutionary algorithms using adaptive mutation for the selective pickup and delivery problem. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2758–2765, Brisbane, Australia, 10-15 June 2012.
- [LT3] Chien-Hung Liu and Chuan-Kang Ting. Polyphonic accompaniment using genetic algorithm with music theory. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2644–2650, Brisbane, Australia, 10-15 June 2012.
- [Lud1] Simone Ludwig. Clonal selection based genetic algorithm for workflow service selection. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1960–1966, Brisbane, Australia, 10-15 June 2012.
- [Lud2] Simone Ludwig. Step-optimized particle swarm optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1703–1711, Brisbane, Australia, 10-15 June 2012.
- [LWLX] Ruochen Liu, Xiao Wang, Yangyang Li, and Zhang Xiangrong. Multi-objective invasive weed optimization algorithm for clustering. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2202–2209, Brisbane, Australia, 10-15 June 2012.
- [LXBQ⁺] J. J. Liang, Mao X. B, B. Y Qu, B. Niu, and T. J. Chen. Elite multi-group differential evolution. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2413–2419, Brisbane, Australia, 10-15 June 2012.
- [LYY] Changhe Li, Shengxiang Yang, and Ming Yang. Maintaining diversity by clustering in dynamic environments. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2734–2741, Brisbane, Australia, 10-15 June 2012.
- [LZ] Jing Liu and Weicai Zhong. Continuous game dynamics on populations with a cycle structure under weak selection. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 819–824, Brisbane, Australia, 10-15 June 2012.
- [LZFG] Bo Liu, Qingfu Zhang, Francisco V. Fernandez, and Georges Gielen. Self-adaptive lower confidence bound: A new general and effective prescreening method for gaussian process surrogate model assisted evolutionary algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2479–2484, Brisbane, Australia, 10-15 June 2012.
- [LZY] Shing Wa Leung, Xin Zhang, and Shiu Yin Yuen. Multiobjective differential evolution algorithm with opposition-based parameter control. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 849–856, Brisbane, Australia, 10-15 June 2012.
- [MAJ] Yashar Maali and Adel Al-Jumaily. A novel partially connected cooperative parallel PSO-SVM algorithm: Study based on sleep apnea detection. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 198–205, Brisbane, Australia, 10-15 June 2012.
- [Mat] Mitsukuni Matayoshi. Landscape information extraction from chromosome based on a quality control approach. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1944–1951, Brisbane, Australia, 10-15 June 2012.
- [MC1] Saul Zapotecas MartInez and Carlos A. Coello Coello. A direct local search mechanism for decomposition-based multi-objective evolutionary algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3480–3487, Brisbane, Australia, 10-15 June 2012.

- [MC2] James Montgomery and Stephen Chen. A simple strategy for maintaining diversity and reducing crowding in differential evolution. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2790–2797, Brisbane, Australia, 10-15 June 2012.
- [McC] Paul McCarthy. Path-sharing: A new betweenness measure for community identification in networks. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 79–84, Brisbane, Australia, 10-15 June 2012.
- [MDC] Renato Maia, Leandro De Castro, and Walimir Caminhas. Bee colonies as model for multimodal continuous optimization: The optbees algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3363–3370, Brisbane, Australia, 10-15 June 2012.
- [MFDJ] Haiping Ma, Minrui Fei, Zhiguo Ding, and Jing Jin. Biogeography-based optimization with ensemble of migration models for global numerical optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1110–1117, Brisbane, Australia, 10-15 June 2012.
- [MG1] Krishna Mishra and Marcus Gallagher. Variable screening for reduced dependency modelling in gaussian-based continuous estimation of distribution algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2105–2112, Brisbane, Australia, 10-15 June 2012.
- [MG2] Irene Moser and Marius Gheorghita. Combining search space diagnostics and optimisation. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1900–1907, Brisbane, Australia, 10-15 June 2012.
- [MGZ] Marco Mussetta, Francesco Grimaccia, and Riccardo E. Zich. Comparison of different optimization techniques for the design of electromagnetic devices. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 705–710, Brisbane, Australia, 10-15 June 2012.
- [MH1] Yan Meng and Guo Hongliang. A gene regulatory network based framework for self-organization in mobile sensor networks. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 533–539, Brisbane, Australia, 10-15 June 2012.
- [MH2] Boris Mitavskiy and Jun He. A polynomial time approximation scheme for a single machine scheduling problem using a hybrid evolutionary algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1513–1520, Brisbane, Australia, 10-15 June 2012.
- [MhG⁺] Noura Al Moubayed, Bashar Awwad Shiekh hasan, John Q. Gan, Andrei Petrovski, and John McCall. Continuous presentation for multi-objective channel selection in brain-computer interfaces. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3488–3494, Brisbane, Australia, 10-15 June 2012.
- [MKH] Mario A. Munoz, Michael Kirley, and Saman Halgamuge. Landscape characterization of numerical optimization problems using biased scattered data. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2162–2169, Brisbane, Australia, 10-15 June 2012.
- [ML1] Rammohan Mallipeddi and Minhoo Lee. Ensemble based face recognition using discriminant PCA features. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 327–333, Brisbane, Australia, 10-15 June 2012.
- [ML2] Rammohan Mallipeddi and Minhoo Lee. Surrogate model assisted ensemble differential evolution algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2073–2080, Brisbane, Australia, 10-15 June 2012.

- [MLM⁺] Aruanda S. G. Meiguins, Roberto C. Limao, Bianchi S. Meiguins, Samuel F. Sousa Junior, and Alex A. Freitas. Autoclustering - an estimation of distribution algorithm for the automatic generation of clustering algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2687–2693, Brisbane, Australia, 10-15 June 2012.
- [MMC1] Adriana Menchaca-Mendez and Carlos A. Coello Coello. Solving multi-objective optimization problems using differential evolution and a maximin selection criterion. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3145–3152, Brisbane, Australia, 10-15 June 2012.
- [MMC⁺2] Juan-J Merelo Guervos, Antonio M. Mora, J. Albert Cruz Almaguer, Anna I. Esparcia-Alcazar, and Carlos Cotta. Scaling in distributed evolutionary algorithms with persistent population. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 625–632, Brisbane, Australia, 10-15 June 2012.
- [MMLD] Efren Mezura-Montes and Elyar A. Lopez-Davila. Adaptation and local search in the modified bacterial foraging algorithm for constrained optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1546–1553, Brisbane, Australia, 10-15 June 2012.
- [MNdC] Douglas Macharet, Armando Alves Neto, Vilar da Camara Neto, and Mario Campos. Data gathering tour optimization for Dubins’ vehicles. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2041–2048, Brisbane, Australia, 10-15 June 2012.
- [MOJ⁺] Alberto Moraglio, Fernando Otero, Colin Johnson, Simon Thompson, and Alex Freitas. Evolving recursive programs using non-recursive scaffolding. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2242–2249, Brisbane, Australia, 10-15 June 2012.
- [MOL] Asad Mohammadi, Mohammad Nabi Omidvar, and Xiaodong Li. Reference point based multi-objective optimization through decomposition. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2131–2138, Brisbane, Australia, 10-15 June 2012.
- [MSG⁺] Marco Mussetta, Houriyeh Shadmehr, Francesco Grimaccia, Alessandro Gandelli, and Riccardo Zich. Optimization of a radio frequency energy harvesting device. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 52–56, Brisbane, Australia, 10-15 June 2012.
- [MTY] Tobias Mahlmann, Julian Togelius, and Georgios N. Yannakakis. Evolving card sets towards balancing dominion. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1223–1230, Brisbane, Australia, 10-15 June 2012.
- [Mur] Keisuke Murakami. A genetic algorithm for probe testing problem on high-density PCB. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3456–3463, Brisbane, Australia, 10-15 June 2012.
- [MY] Michalis Mavrovouniotis and Shengxiang Yang. Ant colony optimization with memory-based immigrants for the dynamic vehicle routing problem. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2766–2773, Brisbane, Australia, 10-15 June 2012.
- [NC] Geoffrey Neumann and David Cairns. Targeted EDA adapted for a routing problem with variable length chromosomes. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 334–341, Brisbane, Australia, 10-15 June 2012.

- [NCSC] Rumana Nazmul, Madhu Chetty, Ram Samudrala, and David Chalmers. Protein structure prediction based on optimal hydrophobic core formation. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1263–1271, Brisbane, Australia, 10-15 June 2012.
- [NDDB] Sune S. Nielsen, Bernabe Dorronsoro, Gregoire Danoy, and Pascal Bouvry. Novel efficient asynchronous cooperative co-evolutionary multi-objective algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1372–1378, Brisbane, Australia, 10-15 June 2012.
- [NGJ] Sarvesh Nikumbh, Shameek Ghosh, and Valadi Jayaraman. Biogeography-based informative gene selection and cancer classification using SVM and random forests. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 131–136, Brisbane, Australia, 10-15 June 2012.
- [NGT] Yanik Ngoko, Alfredo Goldman, and Denis Trystram. Malleable resource sharing algorithms for cooperative resolution of problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 407–414, Brisbane, Australia, 10-15 June 2012.
- [Nit] Geoff Nitschke. Behavioral heterogeneity, cooperation, and collective construction. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 117–124, Brisbane, Australia, 10-15 June 2012.
- [NKGF] Minh Van Nguyen, Michael Kirley, and Rodolfo Garcia-Flores. Community evolution in a scientific collaboration network. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3222–3229, Brisbane, Australia, 10-15 June 2012.
- [NLQW] Jiacheng Ni, Li Li, Fei Qiao, and Qidi Wu. A novel memetic algorithm based on the comprehensive learning PSO. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 915–922, Brisbane, Australia, 10-15 June 2012.
- [NOB] Miguel Nicolau, Michael O’Neill, and Anthony Brabazon. Termination in grammatical evolution: Grammar design, wrapping, and tails. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2381–2388, Brisbane, Australia, 10-15 June 2012.
- [NP] Kaustuv Nag and Tandra Pal. A new archive based steady state genetic algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1864–1870, Brisbane, Australia, 10-15 June 2012.
- [NSDS] Md Nasir, Soumyadip Sengupta, Swagatam Das, and Ponnuthurai N Suganthan. An improved multi-objective optimization algorithm based on fuzzy dominance for risk minimization in biometric sensor network. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 980–987, Brisbane, Australia, 10-15 June 2012.
- [NV] Antonio Nascimento and Germano Vasconcelos. An experimental investigation of artificial immune system algorithms for credit risk assessment applications. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1785–1792, Brisbane, Australia, 10-15 June 2012.
- [NW] Hien Nguyen and Ian Wood. Variable selection in statistical models using population-based incremental learning with applications to genome-wide association studies. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2466–2473, Brisbane, Australia, 10-15 June 2012.

- [NZJC] Su Nguyen, Mengjie Zhang, Mark Johnston, and Tan Kay Chen. A coevolution genetic programming method to evolve scheduling policies for dynamic multi-objective job shop scheduling problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3332–3339, Brisbane, Australia, 10-15 June 2012.
- [OFU⁺] Francisco Ortuno, Javier P. Florido, Jose M. Urquiza, Hector Pomares, Alberto Prieto, and Ignacio Rojas. Optimization of multiple sequence alignment methodologies using a multiobjective evolutionary algorithm based on NSGA-II. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 92–99, Brisbane, Australia, 10-15 June 2012.
- [OMB] Luiz Otavio Oliveira, Rodrigo Luiz Mota, and Dante Augusto Barone. Clonal selection classifier with data reduction: Classification as an optimization task. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 85–91, Brisbane, Australia, 10-15 June 2012.
- [OO] Chung-Ming Ou and C.R. Ou. Immune memory with associativity: Perspectives on dynamical systems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 928–933, Brisbane, Australia, 10-15 June 2012.
- [OYT] Yukiko Orito, Hisashi Yamamoto, and Yasuhiro Tsujimura. Equality constrained long-short portfolio replication by using probabilistic model-building GA. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1562–1569, Brisbane, Australia, 10-15 June 2012.
- [PB] Yasin Volkan Pehlivanoglu and Oktay Baysal. Improved particle swarm optimization: Catching the big wave on the surf. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 833–840, Brisbane, Australia, 10-15 June 2012.
- [PBMH] Amilkar Puris, Rafael Bello, Daniel Molina, and Francisco Herrera. Optimising real parameters using the information of a mesh of solutions: VMO algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2659–2665, Brisbane, Australia, 10-15 June 2012.
- [PCW] Shannon Pace, Andrew Cain, and Clinton Woodward. A consolidated model of particle swarm optimisation variants. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3270–3277, Brisbane, Australia, 10-15 June 2012.
- [PGJ] Stjepan Picek, Marin Golub, and Domagoj Jakobovic. Influence of the crossover operator in the performance of the hybrid taguchi GA. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 423–430, Brisbane, Australia, 10-15 June 2012.
- [PGMZ] Andrea Pirisi, Francesco Grimaccia, Marco Mussetta, and Riccardo E. Zich. An evolutionary optimized device for energy harvesting from traffic. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3593–3598, Brisbane, Australia, 10-15 June 2012.
- [PH] Leon Palafox and Iba Hitoshi. On the use of population based incremental learning to do reverse engineering on gene regulatory networks. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1317–1324, Brisbane, Australia, 10-15 June 2012.
- [PKS] Sandeep Paul, Satish Kumar, and Lotika Singh. Novel hybrid compact genetic algorithm for simultaneous structure and parameter learning of neural networks. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2567–2572, Brisbane, Australia, 10-15 June 2012.

- [PL] Paulo Henrique Pisani and Ana Carolina Lorena. Evolutionary neural networks applied to keystroke dynamics: Genetic and immune based. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2999–3006, Brisbane, Australia, 10-15 June 2012.
- [PLK] In-Won Park, Ki-Baek Lee, and Jong-Hwan Kim. Multi-objective evolutionary algorithm-based optimal posture control of humanoid robots. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 175–181, Brisbane, Australia, 10-15 June 2012.
- [PM] G A Vijayalakshmi Pai and Thierry Michel. Differential evolution based optimization of risk budgeted equity market neutral portfolios. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1057–1064, Brisbane, Australia, 10-15 June 2012.
- [PN] Martin Pilat and Roman Neruda. An evolutionary strategy for surrogate-based multiobjective optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1857–1863, Brisbane, Australia, 10-15 June 2012.
- [PRL] Diego Perez, Philipp Rohlfshagen, and Simon Lucas. The physical travelling salesman problem: WCCI 2012 competition. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1199–1206, Brisbane, Australia, 10-15 June 2012.
- [PT] Yan Pei and Hideyuki Takagi. Fourier analysis of the fitness landscape for evolutionary search acceleration. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2968–2974, Brisbane, Australia, 10-15 June 2012.
- [PYP⁺] Josiah Poon, Dawei Yin, Simon Poon, Runshun Zhang, Baoyan Liu, and Daniel Sze. Co-evolution of symptom-herb relationship. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2460–2465, Brisbane, Australia, 10-15 June 2012.
- [QZC] Jun-Wei Qiu, John K. Zao, and Yu-Hsiang Chou. A geometrically faithful memetic algorithm for searching sparse representations of EEG signals. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 379–385, Brisbane, Australia, 10-15 June 2012.
- [RB] Cristian Rotaru and Octav Brudaru. Multi-grid cellular genetic algorithm for optimizing variable ordering of ROBDDs. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2529–2536, Brisbane, Australia, 10-15 June 2012.
- [RC] Antonio Bolufe Rohler and Stephen Chen. Multi-swarm hybrid for multi-modal optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2397–2404, Brisbane, Australia, 10-15 June 2012.
- [RCM] Olivier Regnier-Coudert and John McCall. An island model genetic algorithm for Bayesian network structure learning. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3419–3426, Brisbane, Australia, 10-15 June 2012.
- [RD] Md. Mazder Rahman and Gerhard Dueck. An algorithm to find quantum templates. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1668–1674, Brisbane, Australia, 10-15 June 2012.
- [RDS] Anguluri Rajasekhar, Swagatam Das, and P. N. Suganthan. Design of fractional order controller for a servohydraulic positioning system with micro artificial bee colony algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 972–979, Brisbane, Australia, 10-15 June 2012.

- [RFS] Ricardo Rabelo, Ricardo Fernandes, and Ivan Silva. Operational planning of hydrothermal systems based on a fuzzy-PSO approach. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2581–2588, Brisbane, Australia, 10-15 June 2012.
- [RG] Robert Reynolds and Yousef Gawasmeh. Evolving heterogeneous social fabrics for the solution of real-valued optimization problems using cultural algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3395–3402, Brisbane, Australia, 10-15 June 2012.
- [RHS⁺] Mohammad Osiur Rahman, Aini Hussain, Edgar Scavino, M. A. Hannan, and Hassan Basri. Object identification using DNA computing algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 315–321, Brisbane, Australia, 10-15 June 2012.
- [RLB] Ricardo Rabelo, Marcus Lemos, and Daniel Barbosa. Power system harmonics estimation using particle swarm optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3534–3539, Brisbane, Australia, 10-15 June 2012.
- [RLK] Si-Jung Ryu, Ki-Baek Lee, and Jong-Hwan Kim. Improved version of a multiobjective quantum-inspired evolutionary algorithm with preference-based selection. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2318–2324, Brisbane, Australia, 10-15 June 2012.
- [RM1] Lorenzo Riano and T.M. McGinnity. A robot that autonomously improves skills by evolving computational graphs. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2049–2056, Brisbane, Australia, 10-15 June 2012.
- [RM2] Jan Richter and Irene Moser. A distributed multiobjective approach to negotiations in semi-competitive environments. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3122–3128, Brisbane, Australia, 10-15 June 2012.
- [RM3] Sauli Ruuska and Kaisa Miettinen. Constructing evolutionary algorithms for bilevel multiobjective optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 250–256, Brisbane, Australia, 10-15 June 2012.
- [RMCS] Subhrajit Roy, Saul Zapotecas MartInez, Carlos A. Coello Coello, and Soumyadip Sengupta. A multi-objective evolutionary approach for linear antenna array design and synthesis a multi-objective evolutionary approach for linear antenna array design and synthesis. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3472–3479, Brisbane, Australia, 10-15 June 2012.
- [RV] Josafath Espinosa Ramos and Roberto A. Vazquez. A new objective function to build seismic networks using differential evolution. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2898–2904, Brisbane, Australia, 10-15 June 2012.
- [RVZS] Juan Rada-Vilela, Mengjie Zhang, and Winston Seah. A performance study on the effects of noise and evaporation in particle swarm optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1892–1899, Brisbane, Australia, 10-15 June 2012.
- [RZL] William Raffe, Fabio Zambetta, and Xiaodong Li. A survey of procedural terrain generation techniques using evolutionary algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 803–810, Brisbane, Australia, 10-15 June 2012.

- [SA] Sanjay Srivastava and Yogesh Anand. An intelligent system to address occupational health of workers exposed to high risk jobs. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2552–2558, Brisbane, Australia, 10-15 June 2012.
- [Sat] Aki-Hiro Sato. Japanese international air travel: The relationship between flight ticket price and geodesic distance. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1065–1070, Brisbane, Australia, 10-15 June 2012.
- [SAV⁺] Isac Sandin, Guilherme Andrade, Felipe Viegas, Daniel Madeira, Leonardo Rocha, Thiago Salles, and Marcos Andre Goncalves. Aggressive and effective feature selection using genetic programming. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2718–2725, Brisbane, Australia, 10-15 June 2012.
- [Saw] Hidefumi Sawai. Reorganizing a new generation airline network based on an ant-colony optimization-inspired small-world network. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 287–294, Brisbane, Australia, 10-15 June 2012.
- [SB] Alexandr Sergeevich and Stephen Bartlett. Optimizing qubit Hamiltonian parameter estimation algorithm using PSO. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3092–3094, Brisbane, Australia, 10-15 June 2012.
- [SBP⁺] Suruchi Sinha, Abhishek Bhola, V.K. Panchal, Siddhant Singhal, and Ajith Abraham. Resolving mixed pixel using hybridization of ant colony optimization and biogeography based optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 222–227, Brisbane, Australia, 10-15 June 2012.
- [SCCI] Wilfried Segretier, Manuel Clergue, Martine Collard, and Luis Izquierdo. An evolutionary data mining approach on hydrological data with classifier juries. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2853–2860, Brisbane, Australia, 10-15 June 2012.
- [SCK⁺] Abhronil Sengupta, Tathagata Chakraborti, Amit Konar, Eunjin Kim, and Atulya K. Nagar. An adaptive memetic algorithm using a synergy of differential evolution and learning automata. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2436–2443, Brisbane, Australia, 10-15 June 2012.
- [SDAA] Joseph Shelton, Gerry Dozier, Joshua Adams, and Aniesha Alford. Permutation-based biometric authentication protocols for mitigating replay attacks. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3630–3634, Brisbane, Australia, 10-15 June 2012.
- [SDM⁺] Marcin Seredynski, Gregoire Danoy, Tabatabaei Masoud, Pascal Bouvry, and Pigne Yoann. Generation of realistic mobility for VANETs using genetic algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3448–3455, Brisbane, Australia, 10-15 June 2012.
- [SDN⁺] Soumyadip Sengupta, Swagatam Das, Md. Nasir, A. V. Vasilakos, and Witold Pedrycz. Energy-efficient differentiated coverage of dynamic objects using an improved evolutionary multi-objective optimization algorithm with fuzzy-dominance. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2186–2193, Brisbane, Australia, 10-15 June 2012.
- [SE] Zhifei Shao and Meng Joo Er. A review of inverse reinforcement learning theory and recent advances. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 585–592, Brisbane, Australia, 10-15 June 2012.

- [SES] Eman Sayed, Daryl Esam, and Ruhul Sarker. Dependency identification technique for large scale optimization problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1442–1449, Brisbane, Australia, 10-15 June 2012.
- [SH] Jayantha Siriwardana and Saman Halgamuge. Fast shortest path optimization inspired by shuttle streaming of physarum polycephalum. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3246–3253, Brisbane, Australia, 10-15 June 2012.
- [SHBI] Hiroyuki Sato, Yoshihiko Hasegawa, Danushka Bollegala, and Hitoshi Iba. Probabilistic model building GP with belief propagation. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2089–2096, Brisbane, Australia, 10-15 June 2012.
- [SK] Claudia Szabo and Trent Kroeger. Evolving multi-objective strategies for task allocation of scientific workflows on public clouds. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2302–2309, Brisbane, Australia, 10-15 June 2012.
- [SLA] Jeremy Stringer, Gary Lamont, and Geoffrey Akers. Radar phase-coded waveform design using multi-objective evolutionary algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2310–2317, Brisbane, Australia, 10-15 June 2012.
- [SLC] Tsu-Wang Shen, Ting-Fong Laio, and Shao-Tsu Chen. Hormone concentration inception: Development an artificial immune system with immunomodulator (AISi) intervention. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 656–661, Brisbane, Australia, 10-15 June 2012.
- [SLL⁺] Yi Sun, Albert Y.S. Lam, Victor O.K. Li, Jin Xu, and Jame J.Q. Yu. Chemical reaction optimization for the optimal power flow problem. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3555–3562, Brisbane, Australia, 10-15 June 2012.
- [SMD] Ankur Sinha, Pekka Malo, and Kalyanmoy Deb. Unconstrained scalable test problems for single-objective bilevel optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2333–2340, Brisbane, Australia, 10-15 June 2012.
- [SML1] Roberto Santana, Alexander Mendiburu, and Jose A. Lozano. An analysis of the use of probabilistic modelling for synaptic connectivity prediction from genomic data. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3495–3502, Brisbane, Australia, 10-15 June 2012.
- [SML2] Roberto Santana, Alexander Mendiburu, and Jose A. Lozano. Structural transfer using EDAs: An application to multi-marker tagging SNP selection. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3206–3213, Brisbane, Australia, 10-15 June 2012.
- [SMM1] Krishna Veni Selvan, Mohd Saufee Muhammad, and Sharifah Masniah Wan Masra. Ensembles of DNA letters for the design of unique DNA library using a modified version of multi-criteria VEDEPSO optimizer. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 364–371, Brisbane, Australia, 10-15 June 2012.
- [SMM2] Mahdi Setayesh, Zhang Mengjie, and Johnston Mark. Effects of static and dynamic topologies in particle swarm optimisation for edge detection in noisy images. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1341–1348, Brisbane, Australia, 10-15 June 2012.

- [SMT] Kate Smith-Miles and Thomas Tan. Measuring algorithm footprints in instance space. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3569–3576, Brisbane, Australia, 10-15 June 2012.
- [SNB⁺] Ali Sharifi, Vahid Noroozi, Masoud Bashiri, Ali B. Hashemi, and Mohammad Reza Meybodi. Two phased cellular PSO: A new collaborative cellular algorithm for optimization in dynamic environments. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 350–357, Brisbane, Australia, 10-15 June 2012.
- [SND] Florian Siegmund, Amos H.C. Ng, and Kalyanmoy Deb. Finding a preferred diverse set of pareto-optimal solutions for a limited number of function calls. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 711–718, Brisbane, Australia, 10-15 June 2012.
- [SOTJ] Chun-Wei Seah, Yew-Soon Ong, Ivor W. Tsang, and Siwei Jiang. Pareto rank learning in multi-objective evolutionary algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2613–2620, Brisbane, Australia, 10-15 June 2012.
- [SP] Rommel Saraiva and Placido Pinheiro. A novel application of crossover operator to a hybrid optimization framework: investigation into cutting problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 633–639, Brisbane, Australia, 10-15 June 2012.
- [SPB1] Tarun Kumar Sharma, Millie Pant, and Jagdish Chand Bansal. Artificial bee colony with mean mutation operator for better exploitation. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3045–3051, Brisbane, Australia, 10-15 June 2012.
- [SPB2] Tarun Kumar Sharma, Millie Pant, and Jagdish Chand Bansal. Some modifications to enhance the performance of artificial bee colony. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3577–3584, Brisbane, Australia, 10-15 June 2012.
- [SPD] Ankur Sinha, Anmol Pandey, and Kalyanmoy Deb. Solving high objective problems in fixed interactions with the decision maker. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2294–2301, Brisbane, Australia, 10-15 June 2012.
- [SPI] Vishal Soam, Leon Palafox, and Hitoshi Iba. Multi-objective portfolio optimization and rebalancing using genetic algorithms with local search. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1087–1093, Brisbane, Australia, 10-15 June 2012.
- [SQC] Prakash Shelokar, Arnaud Quirin, and Oscar Cordon. Automatic extraction of common research areas in world scientograms using the multiobjective subdue algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3230–3237, Brisbane, Australia, 10-15 June 2012.
- [SR1] Amit Saha and Tapabrata Ray. Equality constrained multi-objective optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1395–1401, Brisbane, Australia, 10-15 June 2012.
- [SR2] Amit Saha and Tapabrata Ray. A repair mechanism for active inequality constraint handling. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 546–553, Brisbane, Australia, 10-15 June 2012.
- [SS] Eugene Semenkin and Maria Semenkina. Self-configuring genetic programming algorithm with modified uniform crossover. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2501–2506, Brisbane, Australia, 10-15 June 2012.

- [SSJO] Koji Shimoyama, Koma Sato, Shinkyu Jeong, and Shigeru Obayashi. Comparison of the criteria for updating kriging response surface models in multi-objective optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2170–2177, Brisbane, Australia, 10-15 June 2012.
- [SSJS] Ryosuke Sano, Takuya Shindo, Kenya Jin’no, and Toshimichi Saito. PSO-based multiple optima search systems with switched topology. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3340–3346, Brisbane, Australia, 10-15 June 2012.
- [SSL] Eduardo Segredo, Carlos Segura, and Coromoto Leon. Analysing the robustness of multiobjectivisation parameters with large scale optimisation problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1729–1736, Brisbane, Australia, 10-15 June 2012.
- [SSV] Lukas Sekanina, Vojtech Salajka, and Zdenek Vasicek. Two-step evolution of polymorphic circuits for image multi-filtering. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1481–1488, Brisbane, Australia, 10-15 June 2012.
- [STM] Thiago Santos, Ricardo H. C. Takahashi, and Gladston J. P. Moreira. A CMA stochastic differential equation approach for many-objective optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3294–3299, Brisbane, Australia, 10-15 June 2012.
- [STT1] Vui Ann Shim, Kay Chen Tan, and Kok Kiong Tan. A hybrid adaptive evolutionary algorithm in the domination-based and decomposition-based frameworks of multi-objective optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2113–2120, Brisbane, Australia, 10-15 June 2012.
- [STT2] Vui Ann Shim, Kay Chen Tan, and Kok Kiong Tan. A hybrid estimation of distribution algorithm for solving the multi-objective multiple traveling salesman problem. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1809–1816, Brisbane, Australia, 10-15 June 2012.
- [STV] Luciano Silveira, Ricardo Tanscheit, and Marley Vellasco. Quantum-inspired genetic algorithms applied to ordering combinatorial optimization problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 295–301, Brisbane, Australia, 10-15 June 2012.
- [SWW] Chengyong Si, Lei Wang, and Qidi Wu. Mapping constrained optimization problems to algorithms and constraint handling techniques. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3379–3386, Brisbane, Australia, 10-15 June 2012.
- [SYGL] Xiaoyan Sun, Lei Yang, Dunwei Gong, and Ming Li. Interactive genetic algorithm assisted with group decision making-based collective intelligence. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2673–2680, Brisbane, Australia, 10-15 June 2012.
- [SYS] Qiao Shi, Wei Yin, and Andy Song. Analysis of motion detectors evolved by genetic programming. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 501–508, Brisbane, Australia, 10-15 June 2012.
- [SZLN] Zhigang Shang, Li Zhihui, J. J. Liang, and Ben Niu. Control parameters self-adaptation in differential. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 65–70, Brisbane, Australia, 10-15 June 2012.
- [SZP] Thayalan Sandran, Nordin Zakaria, and Anindya Jyoti Pal. Performance profile of some hybrid heuristic search techniques using compiler flag selection as a seed example. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2474–2478, Brisbane, Australia, 10-15 June 2012.

- [TALA] Jiangjun Tang, Sameer Alam, Chris Lokan, and Hussein Abbass. A multi-objective evolutionary method for dynamic airspace re-sectorization using sectors clipping and similarities. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3607–3614, Brisbane, Australia, 10-15 June 2012.
- [Tan1] Swee Chuan Tan. Simplifying and improving swarm-based clustering. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3190–3197, Brisbane, Australia, 10-15 June 2012.
- [Tan2] Maolin Tang. Evolutionary placement of continuously operating reference stations of network real-time kinematic. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 415–422, Brisbane, Australia, 10-15 June 2012.
- [TBF] M. Fatih Tasgetiren, Onder Bulut, and M. Murat Fadiloglu. A discrete harmony search algorithm for the economic lot scheduling problem with power of two policy. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2521–2528, Brisbane, Australia, 10-15 June 2012.
- [TC] Jeffrey A. Thompson and Clare Bates Congdon. GAMID: Using genetic algorithms for the inference of DNA motifs that are represented in only a subset of sequences of interest. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1301–1308, Brisbane, Australia, 10-15 June 2012.
- [TCNT] Cristiane Taroco, Eduardo Carrano, Oriane Neto, and Ricardo Takahashi. A faster genetic algorithm for substation location and network design of power distribution systems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 463–468, Brisbane, Australia, 10-15 June 2012.
- [TCpC] Pei-Chuan Tsai, Chih-Ming Chen, and Ying ping Chen. Sparse degrees analysis for LT codes optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1010–1015, Brisbane, Australia, 10-15 June 2012.
- [TCZ⁺] Yanyun Tao, Jian Cao, Yuzhen Zhang, Jiajun Lin, and Minglu Li. Using module-level evolvable hardware approach in design of sequential logic circuits. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2234–2241, Brisbane, Australia, 10-15 June 2012.
- [TDF] Tea Tusar, Erik Dovgan, and Bogdan Filipic. Evolutionary scheduling of flexible offers for electricity supply and demand. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1160–1167, Brisbane, Australia, 10-15 June 2012.
- [TEPT] Sotiris Tasoulis, Michael Epitropakis, Vassilis Plagianakos, and Dimitris Tasoulis. Density based projection pursuit clustering. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3643–3650, Brisbane, Australia, 10-15 June 2012.
- [TF] Shigeyoshi Tsutsui and Noriyuki Fujimoto. Implementation of histogram based sampling algorithm within an EDA scheme with CUDA. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1247–1254, Brisbane, Australia, 10-15 June 2012.
- [TNK] Yuichiro Toda, Tsubasa Narita, and Naoyuki Kubota. Information visualization based on 3D modeling for human-friendly teleoperation. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3623–3629, Brisbane, Australia, 10-15 June 2012.
- [TO] Mio Takano and Yuko Osana. Automatic composition system using genetic algorithm and n-gram model considering melody blocks. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 525–532, Brisbane, Australia, 10-15 June 2012.

- [TS1] Tetsuyuki Takahama and Setsuko Sakai. Differential evolution with dynamic strategy and parameter selection by detecting landscape modality. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 593–600, Brisbane, Australia, 10-15 June 2012.
- [TS2] Tetsuyuki Takahama and Setsuko Sakai. Efficient constrained optimization by the epsilon constrained rank-based differential evolution. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1387–1394, Brisbane, Australia, 10-15 June 2012.
- [TS3] Tetsuyuki Takahama and Setsuko Sakai. Large scale optimization by differential evolution with landscape modality detection and a diversity archive. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2876–2883, Brisbane, Australia, 10-15 June 2012.
- [TS4] Aram Ter-Sarkisov. Elitism levels traverse mechanism for the derivation of upper bounds on unimodal functions. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 617–624, Brisbane, Australia, 10-15 June 2012.
- [TSS] Anupam Trivedi, Deepak Sharma, and Dipti Srinivasan. Multi-objectivization of short-term unit commitment under uncertainty using evolutionary algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 271–278, Brisbane, Australia, 10-15 June 2012.
- [TST⁺] Miwako Tsuji, Mitsuhisa Sato, Akifumi Tanabe, Yuji Inagaki, and Tetsuo Hashimoto. An asynchronous parallel genetic algorithm for the maximum likelihood phylogenetic tree search. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2349–2356, Brisbane, Australia, 10-15 June 2012.
- [TT] Masahiro Tanaka and Tomoya Takahama. Restoration of motion-blurred line drawings by differential evolution and Richardson-Lucy algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1489–1496, Brisbane, Australia, 10-15 June 2012.
- [TTM] Hiroshi Takenouchi, Masataka Tokumaru, and Noriaki Muranaka. Performance evaluation of interactive evolutionary computation with tournament-style evaluation. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1–8, Brisbane, Australia, 10-15 June 2012.
- [TTTK] Tsujimoto Takahiro, Shindo Takuya, Kimuta Takayuki, and Jin’no Kenya. A relationship between network topology and search performance of PSO. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 358–363, Brisbane, Australia, 10-15 June 2012.
- [UH] Takeshi Uchitane and Toshiharu Hatanaka. Experimental study for multi-objective PSO with single objective guide selection. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 684–689, Brisbane, Australia, 10-15 June 2012.
- [ULS] Ozgur Ulker and Dario Landa-Silva. Evolutionary local search for solving the office space allocation problem. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3615–3622, Brisbane, Australia, 10-15 June 2012.
- [Une] Tatsuo Unemi. SBArt4 for an automatic evolutionary art. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2605–2612, Brisbane, Australia, 10-15 June 2012.
- [VBCT] Sanderson Vanucci, Rafael Bicalho, Eduardo Carrano, and Ricardo Takahashi. A modified NSGA-II for the multiobjective multi-mode resource-constrained project scheduling problem. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 728–734, Brisbane, Australia, 10-15 June 2012.

- [VDS] Andrea Valsecchi, Sergio Damas, and Jose Santamaria. An image registration approach using genetic algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1450–1457, Brisbane, Australia, 10-15 June 2012.
- [VFCS] Eduardo Vazquez-Fernandez, Carlos Coello, and Feliu Sagols. An evolutionary algorithm coupled with the hooke-jeeves algorithm for tuning a chess evaluation function. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1255–1262, Brisbane, Australia, 10-15 June 2012.
- [VHZH] Ali Vahdat, Malcolm I. Heywood, and A. Nur Zincir-Heywood. Symbiotic evolutionary subspace clustering. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2845–2852, Brisbane, Australia, 10-15 June 2012.
- [VMFS] Susana Vieira, Luis Mendonca, Goncalo Farinha, and Joao Sousa. Metaheuristics for feature selection: application to sepsis outcome prediction. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 934–941, Brisbane, Australia, 10-15 June 2012.
- [VRBF] Lumadaiara Vitorino, Sergio Ribeiro, and Carmelo Bastos-Filho. A hybrid swarm intelligence optimizer based on particles and artificial bees for high-dimensional search spaces. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 23–28, Brisbane, Australia, 10-15 June 2012.
- [VRGVPL] Santiago Vazquez-Rodriguez, Jesus A. Gomollon, Gervasio Varela, and Alejandro Paz-Lopez. Non-observability analysis by means of an evolutionary technique in measured electric power systems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 988–994, Brisbane, Australia, 10-15 June 2012.
- [VRK] Sriharsha Vathsavayi, Outi Raiha, and Kai Koskimies. Using quality farms in multi-objective genetic software architecture synthesis. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 609–616, Brisbane, Australia, 10-15 June 2012.
- [VS] Zdenek Vasicek and Lukas Sekanina. On area minimization of complex combinational circuits using cartesian genetic programming. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 825–832, Brisbane, Australia, 10-15 June 2012.
- [VWON] Kalyan Veeramachaneni, Markus Wagner, Una-May O’Reilly, and Frank Neumann. Optimizing energy output and layout costs for large wind farms using particle swarm optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3540–3546, Brisbane, Australia, 10-15 June 2012.
- [WB1] Lyndon While and Lucas Bradstreet. Applying the WFG algorithm to calculate incremental hypervolumes. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1521–1528, Brisbane, Australia, 10-15 June 2012.
- [WB2] Henry Williams and Will Browne. Integration of learning classifier systems with simultaneous localisation and mapping for autonomous robotics. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2428–2435, Brisbane, Australia, 10-15 June 2012.
- [WBE] Stefan Wink, Thomas Baeck, and Michael Emmerich. A meta-genetic algorithm for solving the capacitated vehicle routing problem. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3635–3642, Brisbane, Australia, 10-15 June 2012.
- [WC] Matthew Witten and Owen Clancey. An evolutionary algorithm for optimization of affine transformation parameters for dose matrix warping in patient-specific quality assurance of radiotherapy dose distributions. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE*

Congress on Evolutionary Computation, pages 108–111, Brisbane, Australia, 10-15 June 2012.

- [WF] Xin Wei and Shigeru Fujimura. Parallel quantum evolutionary algorithms with client-server model for multi-objective optimization on discrete problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3262–3269, Brisbane, Australia, 10-15 June 2012.
- [WGL⁺] Long Wen, Liang Gao, Xinyu Li, Guohui Zhang, and Yang Yang. Application of free pattern search on the surface roughness prediction in end milling. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 765–770, Brisbane, Australia, 10-15 June 2012.
- [WHH⁺] Garnett Wilson, Simon Harding, Orland Hoeber, Rodolphe Devillers, and Wolfgang Banzhaf. Parallel exhaustive search vs. evolutionary computation in a large real world network search space. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1239–1246, Brisbane, Australia, 10-15 June 2012.
- [WHS^L] Yi-Ling Wu, Tsu-Feng Ho, Shyong Jian Shyu, and Bertrand M. T. Lin. Discrete particle swarm optimization for materials acquisition in multi-unit libraries. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 662–668, Brisbane, Australia, 10-15 June 2012.
- [WI] Daiki Watanabe and Kazuyuki Ito. Roles of real-world properties in the baldwin effect. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 399–406, Brisbane, Australia, 10-15 June 2012.
- [WLB] Garnett Wilson, Derek Leblanc, and Wolfgang Banzhaf. Using sector information with linear genetic programming for intraday equity price trend analysis. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1071–1078, Brisbane, Australia, 10-15 June 2012.
- [WMCRC] Yanghui Wu, John McCall, David Corne, and Olivier Regnier-Coudert. Landscape analysis for hyperheuristic bayesian network structure learning on unseen problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3198–3205, Brisbane, Australia, 10-15 June 2012.
- [WS] Madawa Weerasinghe and Georgy Sofronov. A modified cross entropy method for detecting multiple change points in DNA count data. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2001–2008, Brisbane, Australia, 10-15 June 2012.
- [WT] Xianpeng Wang and Lixin Tang. Multi-objective optimization using a hybrid differential evolution algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2081–2088, Brisbane, Australia, 10-15 June 2012.
- [WW1] Jingxuan Wei and Yuping Wang. Hyper rectangle search based particle swarm algorithm for dynamic constrained multi-objective optimization problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 190–197, Brisbane, Australia, 10-15 June 2012.
- [WW2] Slawomir Wesolkowski and Daniel Wojtaszek. SaFESST: Stochastic fleet estimation under steady state tasking via evolutionary fleet scheduling. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1325–1332, Brisbane, Australia, 10-15 June 2012.
- [WWF] Tzai-Der Wang, Xiaochuan Wu, and Colin Fyfe. Comparative study of visualisation methods for temporal data. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1052–1056, Brisbane, Australia, 10-15 June 2012.

- [WWW] Slawomir Wesolkowski, Daniel Wojtaszek, and Kyle Willick. Multi-objective optimization of the fleet mix problem using the SaFER model. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2341–2348, Brisbane, Australia, 10-15 June 2012.
- [WXCZ] Zhou Wu, Lu Xu, T. W. S. Chow, and Mingbo Zhao. Local cooperation delivers global optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2271–2278, Brisbane, Australia, 10-15 June 2012.
- [WXL] Shuzhen Wan, Shengwu Xiong, and Yi Liu. Prediction based multi-strategy differential evolution algorithm for dynamic environments. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 640–647, Brisbane, Australia, 10-15 June 2012.
- [WXMH] Lutao Wang, Wei Xu, Shingo Mabu, and Kotaro Hirasawa. Rule accumulation method based on credit genetic network programming. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3651–3658, Brisbane, Australia, 10-15 June 2012.
- [WYCJ] Ma Wenping, Huang Yuanyuan, Li Congling, and Liu Jing. Image segmentation based on a hybrid immune memetic algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1679–1686, Brisbane, Australia, 10-15 June 2012.
- [WYCZ] Lin Wang, Bo Yang, Yuehui Chen, and Xiuyang Zhao. Predict the hydration of portland cement using differential evolution. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3443–3447, Brisbane, Australia, 10-15 June 2012.
- [XAS] Jian Xiong, Hussein Abbass, and Kamran Shafi. Multi-uncertainty problems (MUP) with applications to managing risk in resource-constrained project scheduling. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1505–1512, Brisbane, Australia, 10-15 June 2012.
- [XLL⁺] Jin Xu, Albert Y.S. Lam, Victor O.K. Li, Qiwei Li, and Xiaodan Fan. Short adjacent repeat identification based on chemical reaction optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 601–608, Brisbane, Australia, 10-15 June 2012.
- [XLZD] Jiaqing Xu, Qi Lv, Jie Zhou, and Yong Dou. A self-organizing and self-adaptive french flag organism based on lateral activation model. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 493–500, Brisbane, Australia, 10-15 June 2012.
- [XSC] Feng Xie, Andy Song, and Vic Ciesielski. Event detection in time series by genetic programming. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2507–2514, Brisbane, Australia, 10-15 June 2012.
- [XXC] Shui Xinguo, Zuo Xingquan, and Chen Cheng. A cultural clonal selection algorithm based fast vehicle scheduling approach. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 893–899, Brisbane, Australia, 10-15 June 2012.
- [XZ] Li Xiao and Xingquan Zuo. Multi-DEPSO—a DE and PSO based hybrid algorithm in dynamic environments. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1601–1607, Brisbane, Australia, 10-15 June 2012.
- [XZB] Bing Xue, Mengjie Zhang, and Will N. Browne. New fitness functions in binary particle swarm optimisation for feature selection. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 779–786, Brisbane, Australia, 10-15 June 2012.

- [Yan] Li Yang. Adaptive learning evaluation model for evolutionary art. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2589–2596, Brisbane, Australia, 10-15 June 2012.
- [YATNM] Danial Yazdani, Mohammad Reza Akbarzadeh-Totonchi, Babak Nasiri, and Mohammad Reza Meybodi. A new artificial fish swarm algorithm for dynamic optimization problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1538–1545, Brisbane, Australia, 10-15 June 2012.
- [YGLL] Xiangjuan Yao, Dunwei Gong, Yongjin Luo, and Ming Li. Test data reduction based on dominance relations of target statements. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 743–750, Brisbane, Australia, 10-15 June 2012.
- [YGWN] Joseph Yuen, Sophia Gao, Markus Wagner, and Frank Neumann. An adaptive data structure for evolutionary multi-objective algorithms with unbounded archives. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1985–1992, Brisbane, Australia, 10-15 June 2012.
- [YHN⁺] Hiroaki Yamaguchi, Tomoyuki Hiroyasu, Sakito Nunokawa, Noriko Koizumi, Naoki Okumura, Hisatake Yokouchi, Mitsunori Miki, and Masato Yoshimi. Comparison study of controlling bloat model of GP in constructing filter for cell image segmentation problems. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3503–3510, Brisbane, Australia, 10-15 June 2012.
- [YLI⁺] Fei Yan, Phuc Q. Le, Abdullah M. Ilyasu, Bo Sun, Jesus A. Garcia, Fangyan Dong, and Kaoru Hirota. Assessing the similarity of quantum images based on probability measurements. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1662–1667, Brisbane, Australia, 10-15 June 2012.
- [YLL1] James J.Q. Yu, Albert Y.S. Lam, and Victor O.K. Li. Real-coded chemical reaction optimization with different perturbation functions. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2983–2990, Brisbane, Australia, 10-15 June 2012.
- [YLL2] James J.Q. Yu, Victor O.K. Li, and Albert Y.S. Lam. Sensor deployment for air pollution monitoring using public transportation system. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 995–1001, Brisbane, Australia, 10-15 June 2012.
- [YMH] Yang Yang, Shingo Mabu, and Kotaro Hirasawa. A multitasks learning approach to autonomous agent based on genetic network programming. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1937–1943, Brisbane, Australia, 10-15 June 2012.
- [yQsWpWJ] Fei yue Qiu, Yu shi Wu, Li ping Wang, and Bo Jiang. Bipolar preferences dominance based evolutionary algorithm for many-objective optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 787–794, Brisbane, Australia, 10-15 June 2012.
- [YSMN1] Mitchell Yuwono, Steven W. Su, Bruce Moulton, and Hung Nguyen. Fast unsupervised learning method for rapid estimation of cluster centroids. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2139–2146, Brisbane, Australia, 10-15 June 2012.
- [YSMN2] Mitchell Yuwono, Steven W. Su, Bruce Moulton, and Hung Nguyen. Method for increasing the computation speed of an unsupervised learning approach for data clustering. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3007–3014, Brisbane, Australia, 10-15 June 2012.

- [ySsCpM] Xiao yan Sun, Shan shan Chen, and Xiao ping Ma. Semi-supervised ranking SVM-assisted IGA with hierarchical evaluations. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3153–3160, Brisbane, Australia, 10-15 June 2012.
- [YSZ] Jun Hee Yoo, Ho-Sik Seok, and Byoung-Tak Zhang. Evolutionary particle filtering for sequential dependency learning from video data. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1608–1615, Brisbane, Australia, 10-15 June 2012.
- [YT] Zeratul Mohd Yusoh and Maolin Tang. Clustering composite SaaS components in cloud computing using a grouping genetic algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2357–2364, Brisbane, Australia, 10-15 June 2012.
- [YX] Yuan Yuan and Hua Xu. HHS/LNS: An integrated search method for flexible job shop scheduling. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 811–818, Brisbane, Australia, 10-15 June 2012.
- [YY] Chia-Hsuan Yeh and Chun-Yi Yang. Can learning affect the effectiveness of price limits? In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1094–1101, Brisbane, Australia, 10-15 June 2012.
- [YYC⁺] Wei-Chang Yeh, Yuan-Ming Yeh, Chun-Hua Chou, Y.Y. Chung, and Xiangjian He. A radio frequency identification network design methodology for the decision problem in mackay memorial hospital based on swarm optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 698–704, Brisbane, Australia, 10-15 June 2012.
- [ZB] Ales Zamuda and Janez Brest. Tree model reconstruction innovization using multi-objective differential evolution. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1616–1623, Brisbane, Australia, 10-15 June 2012.
- [ZCY] Lin Zhu, Longbing Cao, and Jie Yang. Multiobjective evolutionary algorithm-based soft subspace clustering. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2837–2844, Brisbane, Australia, 10-15 June 2012.
- [ZFZX] Wei Zhang, Xu Feng, Yongjie Zhang, and Xiong Xiong. Information diffusion and its impacts on artificial stock markets in learning process. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1146–1151, Brisbane, Australia, 10-15 June 2012.
- [ZHD] John K. Zao, Martin Hornansky, and Pei-Lun Diao. Design of optimal short-length LT codes using evolution strategies. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 152–160, Brisbane, Australia, 10-15 June 2012.
- [ZHY] Lifeng Zhang, Rong He, and Mengling Yan. Heterogeneous double populations based hybrid genetic algorithm design for training feedforward neural networks. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2991–2998, Brisbane, Australia, 10-15 June 2012.
- [ZKH] Ferani E. Zulvia, R.J. Kuo, and Tung-Lai Hu. Solving CVRP with time window, fuzzy travel time and demand via a hybrid ant colony optimization and genetic algortihm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2960–2967, Brisbane, Australia, 10-15 June 2012.
- [ZL1] Kaibo Zhang and Bin Li. Cooperative coevolution with global search for large scale global optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3031–3037, Brisbane, Australia, 10-15 June 2012.

- [ZL2] Xin Zhang and Wenjian Luo. Evolutionary repair for evolutionary design of combinational logic circuits. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1473–1480, Brisbane, Australia, 10-15 June 2012.
- [ZLJH] Zexuan Zhu, Wenmin Liu, Zhen Ji, and Shan He. Memetic clustering based on particle swarm optimizer and k-means. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2905–2910, Brisbane, Australia, 10-15 June 2012.
- [ZLT] Kaibo Zhang, Bin Li, and Lixiang Tan. Empirical study of the effect of variable correlation on grouping in cooperative coevolutionary evolutionary algorithms. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 308–314, Brisbane, Australia, 10-15 June 2012.
- [ZMPW] Guangrui Zhang, Mahdi Mahfouf, George Panoutsos, and Shen Wang. A multi-objective particle swarm optimization algorithm with a dynamic hypercube archive, mutation and population competition. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1885–1891, Brisbane, Australia, 10-15 June 2012.
- [ZS1] Anhong Zhang and Rob Saunders. Towards the evolution of a language for creative design. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1024–1029, Brisbane, Australia, 10-15 June 2012.
- [ZS2] Shi-Zheng Zhao and P. N. Suganthan. Comprehensive comparison of convergence performance of optimization algorithms based on nonparametric statistical tests. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2861–2867, Brisbane, Australia, 10-15 June 2012.
- [ZSS] Zheng Zhang, Hock Soon Seah, and Jixiang Sun. A hybrid particle swarm optimization with cooperative method for multi-object tracking. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1624–1629, Brisbane, Australia, 10-15 June 2012.
- [ZY1] Weiwei Zhang and Gary Yen. Immune-inspired evolutionary algorithm for constrained optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1695–1702, Brisbane, Australia, 10-15 June 2012.
- [ZY2] Xin Zhang and Shiu Yin Yuen. Opposition-based adaptive differential evolution. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 1843–1850, Brisbane, Australia, 10-15 June 2012.
- [ZZ] Lifeng Zhang and Chenxi Zhou. Self organized parallel genetic algorithm to automatically realize diversified convergence. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 719–727, Brisbane, Australia, 10-15 June 2012.
- [ZZL] Xiangrong Zhang, Erlei Zhang, and Runxin Li. Optimized feature extraction by immune clonal selection algorithm. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 2681–2686, Brisbane, Australia, 10-15 June 2012.
- [ZZY] Hao Zhang, Yunlong Zhu, and Xiaohui Yan. Multi-hive artificial bee colony algorithm for constrained multi-objective optimization. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 554–561, Brisbane, Australia, 10-15 June 2012.
- [ZZZ] Aimin Zhou, Qingfu Zhang, and Guixu Zhang. A multiobjective evolutionary algorithm based on decomposition and probability model. In Xiaodong Li, editor, *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pages 3129–3136, Brisbane, Australia, 10-15 June 2012.