

## Список литературы

- [AA12] Daniel Ashlock and Wendy Ashlock, *Impact of regulatory genes on optimization behavior*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3403–3410.
- [AB12] Viswanath Avasarala and Piero Bonissone, *iPresage: An innovative patent landscaping tool*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 372–378.
- [ABM12] Marcos Alvares, Fernando Buarque, and Tshilidzi Marwala, *Optimizing risk management using NSGA-II*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 477–484.
- [ABO12] Aderemi Adewumi, Nigel Budlender, and Micheal Olusanya, *Optimizing the assignment of blood in a blood banking system: Some initial results*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 751–756.
- [AGRK12] Shafiq Alam, Dobbie Gillian, Patricia Riddle, and Yun Sing Koh, *Hierarchical PSO clustering based recommender system*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 879–886.
- [AH12] Laurence Amaral and Estevam Hruschka, *Never-ending learning principles in gene ontology classification using genetic algorithms*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 676–683.
- [AJBW12] Wissam Albukhanajer, Yaochu Jin, Johann Briffa, and Godfried Williams, *Evolutionary multi-objective optimization of trace transform for invariant feature extraction*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1458–1465.
- [AK12a] Bahriye Akay and Ibrahim Kirmizi, *Structural optimization of wavelet packets using swarm algorithms*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2931–2935.
- [AK12b] Ahmad Almakhlafi and Joshua Knowles, *Benchmarks for maintenance scheduling problems in power generation*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3464–3471.
- [AK12c] Abdullah Alsheddy and Michael Kampouridis, *Off-line parameter tuning for guided local search using genetic programming*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 112–116.
- [AL12] Chun-Kit Au and Ho-Fung Leung, *Eigenspace sampling in the mirrored variant of  $(1, \lambda)$ -CMA-ES*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 871–878.
- [ALA12] Sameer Alam, Chris Lokan, and Hussein Abbass, *What can make an airspace unsafe? characterizing collision risk using multi-objective optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 214–221.
- [ALF12] Han The Anh, Moniz Pereira Luis, and C. Santos Francisco, *Intention recognition, commitment and the evolution of cooperation*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2025–2032.

- [ALFP12a] Adham Atyabi, Martin Luerksen, Sean P. Fitzgibbon, and David M. W. Powers, *Adapting subject-independent task-specific EEG feature masks using PSO*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2155–2161.
- [ALFP12b] ———, *Dimension reduction in EEG data using particle swarm optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2147–2154.
- [ALFP12c] ———, *Evolutionary feature selection and electrode reduction for EEG classification*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 161–168.
- [AM12] Daniel Ashlock and Sharron McNicholas, *Single parent generalization of cellular automata rules*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 263–270.
- [AMB12] Manuel Abello, Zbigniew Michalewicz, and Lam Thu Bui, *A reactive-proactive approach for solving dynamic scheduling with time-varying number of tasks*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2121–2130.
- [AMCMM12] Alfredo Arias-Montano, Carlos A. Coello Coello, and Efren Mezura-Montes, *Multi-objective airfoil shape optimization using a multiple-surrogate approach*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2178–2185.
- [AMK12] Heyam Albaity, Souham Meshoul, and Ata Kaban, *On extending quantum behaved particle swarm optimization to multiobjective context*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1967–1974.
- [AMM12] Aldeida Aleti, Irene Moser, and Sanaz Mostaghim, *Adaptive range parameter control*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2405–2412.
- [ARSA12] Md Asafuddoula, Tapabrata Ray, Ruhul Sarker, and Khairul Alam, *An adaptive constraint handling approach embedded MOEA/D*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2651–2658.
- [AS12] Kattan Ahmed and Fatima Shaheen, *PSO as a meta-search for hyper-GA system to evolve optimal agendas for sequential multi-issue negotiation*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3108–3115.
- [ASNZ12] Fahmi Abdulhamid, Andy Song, Kourosh Neshatian, and Mengjie Zhang, *Evolving genetic programming classifiers with loop structures*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2710–2717.
- [ASR12] Mostafa Ali, Ayad Salhie, and Robert Reynolds, *Socio-cultural evolution via neighborhood restructuring in intricate multi-layered networks*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3387–3394.
- [ASSNZ12] Harith Al-Sahaf, Andy Song, Kourosh Neshatian, and Mengjie Zhang, *Extracting image features for classification by two-tier genetic programming*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1630–1637.

- [ATA12] Hanan Alghamdi, Lilian Tang, and Saleh Alshomrani, *Hybrid ACO and TOFA feature selection approach for text classification*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3184–3189.
- [BBA12] Vinh Bui, Axel Bender, and Hussein Abbass, *An expressive GL-2 grammar for representing story-like scenarios*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2782–2789.
- [BBZ<sup>+</sup>12] Janez Brest, Borko Boskovic, Ales Zamuda, Iztok Fister, and Mirjam Sepesy Maucec, *Self-adaptive differential evolution algorithm with a small and varying population size*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2868–2875.
- [Bd12] Atilim Gunes Baydin and Ramon Lopez de Mantaras, *Evolution of ideas: A novel memetic algorithm based on semantic networks*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2774–2781.
- [BFd12] Ederson Borges, Daniel G. Ferrari, and Leandro N. de Castro, *Silhouette-based clustering using an immune network*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1768–1776.
- [BHM12] Christopher Beer, Tim Hendtlass, and James Montgomery, *Improving exploration in ant colony optimisation with antennation*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2944–2951.
- [BK12] Krisztian Balazs and Laszlo T. Koczy, *Hybrid bacterial iterated greedy heuristics for the permutation flow shop problem*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1497–1504.
- [BM12] Mohammad Reza Bonyadi and Zbigniew Michalewicz, *A fast particle swarm optimization algorithm for the multidimensional knapsack problem*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1402–1409.
- [BN12a] Hassan Bashir and Richard Neville, *Convergence measurement in evolutionary computation using Price’s theorem*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2559–2566.
- [BN12b] ———, *A hybrid evolutionary computation algorithm for global optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2829–2836.
- [BNR<sup>+</sup>12] Ricardo Britto, Pedro Santos Neto, Ricardo Rabelo, Werney Ayala, and Thiago Soares, *A hybrid approach to solve the agile team allocation problem*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3599–3606.
- [BP12] Andre Britto and Aurora Pozo, *Using archiving methods to control convergence and diversity for many-objective problems in particle swarm optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1646–1653.

- [BPN12] Stepan Balcar, Martin Pilat, and Roman Neruda, *An evolutionary algorithm for 2D semi-guillotinable circular saw cutting*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1908–1912.
- [BRK<sup>+</sup>12] Pavel Bhowmik, Pratyusha Rakshit, Amit Konar, Eunjin Kim, and Atulya K. Nagar, *DE-TDQL: An adaptive memetic algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2444–2451.
- [BRT12] Sami Barmada, Marco Raugi, and Mauro Tucci, *Global optimization algorithm based on self-organizing centroids*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1851–1856.
- [BS12] Vladimir Bukhtoyarov and Eugene Semenko, *Neural networks ensemble approach for detecting attacks in computer networks*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3078–3083.
- [BSA12] Bruno Bruck, Andre’ Santos, and Jose’ Arroyo, *Hybrid metaheuristic for the single vehicle routing problem with deliveries and selective pickups*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1913–1920.
- [BSK12] Lucas Benedicic, Mitja Stular, and Peter Korosec, *Balancing downlink and uplink soft-handover areas in UMTS networks*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1002–1009.
- [BSO12] Anthony Brabazon, Arlindo Silva, and Michael O’Neill, *Optimal patent design: An agent-based approach*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1102–1109.
- [BSS12] Richa Bansal, Kamal Srivastava, and Sanjay Srivastava, *A hybrid evolutionary algorithm for the cutwidth minimization problem*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2263–2270.
- [BSSH<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2493–2500.
- [BV12] Michal Bidlo and Zdenek Vasicek, *Evolution of cellular automata using instruction-based approach*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2057–2064.
- [Bvv12] Joos Buijs, Boudewijn van Dongen, and Wil van der Aals, *A genetic algorithm for discovering process trees*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1929–1936.
- [CADC12] B. Rosario Campomanes-Alvarez, Sergio Damas, and Oscar Cordon, *Mesh simplification for 3D modeling using evolutionary multi-objective optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1364–1371.

- [CBB<sup>+</sup>12] Pilar Caamano, Francisco Bellas, Jose A. Becerra, Vicente Diaz, and Richard J. Duro, *Experimental analysis of the relevance of fitness landscape topographical characterization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3371–3378.
- [CBL12] Waldo Cancino, Nadia Boukhelifa, and Evelyne Lutton, *EvoGraphDice: Interactive evolution for visual analytics*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2286–2293.
- [CBSD12] Sylvain Cussat-Blanc, Stephane Sanchez, and Yves Duthen, *Simultaneous cooperative and conflicting behaviors handled by a gene regulatory network*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1037–1044.
- [CCTM12] Kee Tong Chang, Kim On Chin, Jason Teo, and James Mountstephens, *Game AI generation using evolutionary multi-objective optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 948–955.
- [CCV12] Ahsan Chowdhury, Madhu Chetty, and Nguyen Vinh, *Adaptive regulatory genes cardinality for reconstructing genetic networks*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1285–1292.
- [Cd12] Luiz Antonio Carraro and Leandro Nunes de Castro, *A clonal selection algorithm to minimize reshuffling in container stacking operations*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1777–1784.
- [CDA12] Uday Chakraborty, Sajal Das, and Travis Abbott, *Energy-efficient routing in hierarchical wireless sensor networks using differential-evolution-based memetic algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3427–3434.
- [CDD12] Ivo Couckuyt, Dirk Deschrijver, and Tom Dhaene, *Towards efficient multiobjective optimization: Multiobjective statistical criteria*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2485–2492.
- [CG12] Shu-Heng Chen and Umberto Gostoli, *Coordination in the El Farol bar problem: The role of social preferences and social networks*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1152–1159.
- [CGD12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1529–1537.
- [CGI12] Camelia Chira, Anca Gog, and David Iclanzan, *Evolutionary detection of community structures in complex networks: a new fitness function*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2365–2372.
- [CHDW12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1737–1742.

- [Che12] Stephen Chen, *Particle swarm optimization with pbest crossover*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 540–545.
- [CJ12] Tom Castle and Colin Johnson, *Evolving program trees with limited scope variable declarations*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2250–2257.
- [CK12] Raymond Chiong and Michael Kirley, *The evolution of cooperation via stigmergic interactions*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2017–2024.
- [CKB<sup>+</sup>12] Imen Chaari, Anis Koubaa, Hachemi Bennaceur, Sahar Trigui, and Khaled Al-Shalfan, *smartPATH: A hybrid ACO-GA algorithm for robot path planning*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 206–213.
- [CLL12] Angela Hsiang-Ling Chen, Yun-Chia Liang, and Chia-Chien Liu, *An artificial bee colony algorithm for the cardinality-constrained portfolio optimization problems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2936–2943.
- [CLN12] Vic Ciesielski, Brian Lam, and Minh Luan Nguyen, *Comparison of evolutionary and conventional feature extraction methods for malt classification*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1349–1355.
- [CLNJ12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 942–947.
- [CMRA<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 648–655.
- [CRE12] Jaime Cepeda, Jose Rueda, and Istvan Erlich, *Identification of dynamic equivalents based on heuristic optimization for smart grid applications*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1168–1175.
- [CRN12] Cassio Rodrigo Conti, Mauro Roisenberg, and Guenther Schwedersky Neto, *Acor-v - an algorithm that incorporates the visibility heuristic to the ACO in continuous domain*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2952–2959.
- [CRO12] Hongqing Cao, Friedrich Recknagel, and Philip T. Orr, *The experimental study of population-based parameter optimization algorithms on rule-based ecological modelling*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3254–3261.
- [CSQ12a] Shi Cheng, Yuhui Shi, and Quande Qin, *Dynamical exploitation space reduction in particle swarm optimization for solving large scale problems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3023–3030.
- [CSQ12b] ———, *Particle swarm optimization based semi-supervised learning on chinese text categorization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3176–3183.

- [CSQ12c] ———, *Population diversity based study on search information propagation in particle swarm optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 562–569.
- [CT12] Siong Huat Ch'ng and Jason Teo, *Online evolution of offensive strategies in real-time strategy gaming*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 100–107.
- [CTY12] Jui-Le Chen, Chun-Wei Tsai, and Chu-Sing Yang, *An improved LGA for protein-ligand docking prediction*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 302–307.
- [CVL12] Catherine Cheung, Julio J. Valdes, and Matthew Li, *Use of evolutionary computation techniques for exploration and prediction of helicopter loads*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1130–1137.
- [CW12] Ming-Liang Chen and Feng-Sheng Wang, *Fuzzy optimization for a batch simultaneous saccharification and co-fermentation process by hybrid differential evolution*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2890–2897.
- [CWS<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2009–2016.
- [CXM12] Stephen Chen, Carlos Xudiera, and James Montgomery, *Simulated annealing with threshold convergence*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2537–2543.
- [CXZS12] Liam Cervante, Bing Xue, Mengjie Zhang, and Lin Shang, *Binary particle swarm optimisation for feature selection: A filter based approach*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1877–1884.
- [CY12] Chi Kin Chow and Shiu Yin Yuen, *Continuous non-revisiting genetic algorithm with overlapped search sub-region*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2975–2982.
- [CYXS12] Ran Cheng, Min Yao, Xiaowei Xue, and Bin Shen, *Bisexual evolution: A novel bisexual evolutionary framework based on the fisher's runaway process*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1952–1959.
- [Dah12] Palle Dahlstedt, *Turn-based evolution as a proposed implementation of artistic creative process*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2637–2643.
- [DB12] Bernabe Dorronsoro and Pascal Bouvry, *Study of different small-world topology generation mechanisms for genetic algorithms*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2226–2233.
- [DBDC12] Rituparna Datta, Michael S. Bittermann, Kalyanmoy Deb, and Ozer Ciftcioglu, *Probabilistic constraint handling in the framework of joint evolutionary-classical optimization with engineering applications*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 757–764.

- [DCC12] Benjamin Daniels, Steven Corns, and Elizabeth Cudney, *A comparison of representations for the prediction of ground-level ozone concentration*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2694–2701.
- [DCP12a] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1823–1830.
- [DCP12b] ———, *Totally disturbed chaotic particle swarm optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1577–1584.
- [DD12] Rituparna Datta and Kalyanmoy Deb, *An adaptive normalization based constrained handling methodology with hybrid bi-objective and penalty function approach*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3137–3144.
- [DE12] Julien Duhain and Andries Engelbrecht, *Towards a more complete classification system for dynamically changing environments*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2742–2749.
- [dGML12] Jesica de Armas, Yanira Gonzalez, Gara Miranda, and Coromoto Leon, *Parallelization of the multi-objective container loading problem*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 37–44.
- [Dic12] Grant Dick, *Niche allocation in spatially-structured evolutionary algorithms with gradients*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2210–2217.
- [DJ12] Kalyanmoy Deb and Himanshu Jain, *Handling many-objective problems using an improved NSGA-II procedure*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 342–349.
- [DKG12] Olfa Dridi, Saoussen Krichen, and Adel Guitouni, *A multi-objective optimization approach for resource assignment and task scheduling problem: Application to maritime domain awareness*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 469–476.
- [Dow12] Steve Dower, *Automatic implementation of evolutionary algorithms on GPUs using ESDL*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3411–3418.
- [DP12] Douglas Dias and Marco Aurelio Pacheco, *Describing quantum-inspired linear genetic programming from symbolic regression problems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 907–914.
- [DQXM12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2515–2520.
- [DTMN12] Mlungisi Duma, Bhakisipho Twala, Tshilidzi Marwala, and Fulufhelo Nelwamondo, *Classification with missing data using multi-layered artificial immune systems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1687–1694.



- [DvVB12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1921–1928.
- [EA12] Mohammed El-Abd, *Generalized opposition-based artificial bee colony algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3052–3055.
- [EAK12] Mohammed El-Abd and Mohamed Kamel, *Particle swarm optimization with adaptive bounds*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 169–174.
- [EB12] Ahmed El-Bouri, *An investigation of initial solutions on the performance of an iterated local search algorithm for the permutation flowshop*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2258–2262.
- [Eng12] Andries Engelbrecht, *Particle swarm optimization: Velocity initialization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1410–1417.
- [EPV12] Michael Epitropakis, Vassilis Plagianakos, and Michael Vrahatis, *Multimodal optimization using niching differential evolution with index-based neighborhoods*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2065–2072.
- [ES12] Andreas Ernst and Gaurav Singh, *Lagrangian particle swarm optimization for a resource constrained machine scheduling problem*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1585–1592.
- [ESE12] Saber Elsayed, Ruhul Sarker, and Daryl Essam, *Memetic multi-topology particle swarm optimizer for constrained optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1379–1386.
- [ESR12] Saber Elsayed, Ruhul Sarker, and Tapabrata Ray, *Parameters adaptation in differential evolution*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1138–1145.
- [ESS<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3056–3063.
- [ETP<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1712–1719.
- [FA12] Rafael Falcon and Rami Abielmona, *A response-aware risk management framework for search-and-rescue operations*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1333–1340.
- [Faj12] Iztok Fajfar, *Selection strategies and random perturbations in differential evolution*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1836–1842.

- [FBL12] Leonardo Fonseca, Helio Barbosa, and Afonso Lemonge, *A study on fitness inheritance for enhanced efficiency in real-coded genetic algorithms*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 71–78.
- [FDSJ12] Zary Forghany, Mohsen Davarynejad, and Ewa Snaar-Jagalska, *Gene regulatory network model identification using artificial bee colony and swarm intelligence*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1272–1277.
- [FFBZ12] Iztok Fister, Iztok Fister, Jr., Janez Brest, and Viljem Zumer, *Memetic artificial bee colony algorithm for large-scale global optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3015–3022.
- [FJZ12a] Wenlong Fu, Mark Johnston, and Mengjie Zhang, *Genetic programming for edge detection via balancing individual training images*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2702–2709.
- [FJZ12b] ———, *Soft edge maps from edge detectors evolved by genetic programming*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1356–1363.
- [FKZ<sup>+</sup>12] Xing Fang, Nicholas Kocejka, Justin Zhan, Gerry Dozier, and Dasgupta Dipankar, *An artificial immune system for phishing detection*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 392–398.
- [FL12] Bogdan Filipic and Ivan Lorencin, *Evolutionary multiobjective design of an alternative energy supply system*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 257–262.
- [FLF12] Sevan G. Ficici, Enoch Liu, and Gary B. Fogel, *Evolutionary algorithms for supertree search*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1293–1300.
- [FNBD12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 900–906.
- [FOTT12] Liang Feng, Yew Soon Ong, Ivor Tsang, and Ah Hwee Tan, *An evolutionary search paradigm that learns with past experiences*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2813–2820.
- [FS12] Xie Feng and Andy Song, *Evolving frame splitters by genetic programming*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1466–1472.
- [FSTY12] Haobo Fu, Bernhard Sendhoff, Ke Tang, and Xin Yao, *Characterizing environmental changes in robust optimization over time*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1593–1600.
- [FSW<sup>+</sup>12] Wei Fang, Jun Sun, Xiaojun Wu, Wenbo Xu, and Palade Vasile, *Study on the compression-expansion coefficient in drift particle swarm optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 857–862.

- [GA12] Garrison Greenwood and Daniel Ashlock, *Evolutionary games and the study of cooperation: Why has so little progress been made?*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1207–1214.
- [GC12] David J. Gagne and Clare Bates Congdon, *Preliminary results for GAMMI: Genetic algorithms for motif-module inference*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1309–1316.
- [GCLM12] Maoguo Gong, Qing Cai, Yangyang Li, and Jingjing Ma, *An improved memetic algorithm for community detection in complex networks*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3347–3354.
- [GCS<sup>+</sup>12] Arnab Ghosh, Arkabandhu Chowdhury, Subhajit Sinha, Athanasios V. Vasilakos, and Swagatam Das, *A genetic lbest PSO with dynamically varying subswarm topology*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 669–675.
- [GEKY12] Jacomine Grobler, Andries P. Engelbrecht, Graham Kendall, and Sarma Yadavalli, *Investigating the use of local search for improving meta-hyper-heuristic performance*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3324–3331.
- [GGC<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1570–1576.
- [GHMB12] Armin Gruenewald, Simon Hardt, Matthias Mielke, and Rainer Brueck, *A decentralized charge management for electric vehicles using a genetic algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3519–3525.
- [GnCZ12] Yu Guo, Wei neng Chen, and Jun Zhang, *Enhancing the performance of evolutionary algorithms—a novel maturity-based adaptation strategy*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 570–577.
- [GS12] Tao Gong and Lan Shuai, *A cross-model study on the effect of power-laws on language evolution*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3286–3293.
- [GSB12] Kaizhou Gao, Ponnuthurai Nagarathnam Suganthan, and Zhenqiang Bao, *A composite heuristic for the no-wait flow shop scheduling*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1125–1129.
- [GSF12a] Falko Guderian, Rainer Schaffer, and Gerhard Fettweis, *Administration- and communication-aware IP core mapping in scalable multiprocessor system-on-chips via evolutionary computing*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1434–1441.
- [GSF12b] ———, *Dimensioning the heterogeneous multicluster architecture via parallelism analysis and evolutionary computing*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1426–1433.

- [GSML12] Sverre Gunnersen, Kate Smith-Miles, and Vincent Lee, *Towards objective data selection in bankruptcy prediction*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 9–16.
- [GTPS12] Jonathan Goh, Lilian Tang, Tunde Peto, and George Saleh, *An evolutionary approach for determining hidden markov model for medical image analysis*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3511–3518.
- [gWbLZpW12] Wen guan Wang, Ying biao Ling, Jun Zhang, and Yu ping Wang, *Ant colony optimization algorithm for analog filter design*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3072–3077.
- [GYSL12] Dunwei Gong, Lei Yang, Xiaoyan Sun, and Ming Li, *Applying knowledge of users with similar preference to construct surrogate models of IGAs*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3168–3175.
- [GZ12] Caroline Gagne and Arnaud Zinflou, *An hybrid algorithm for the industrial car sequencing problem*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 279–286.
- [Han12] Hisashi Handa, *Use of graph kernels in estimation of distribution algorithms*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3563–3568.
- [HC12] Wei-Huai Hsu and Tsung-Che Chiang, *A multiobjective evolutionary algorithm with enhanced reproduction operators for the vehicle routing problem with time windows*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2750–2757.
- [HCF12a] Ping-Che Hsiao, Tsung-Che Chiang, and Li-Chen Fu, *Particle swarm optimization for the minimum energy broadcast problem in wireless ad-hoc networks*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3100–3107.
- [HCF12b] ———, *A VNS-based hyper-heuristic with adaptive computational budget of local search*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3316–3323.
- [HCV12] David Haynes, Steven Corns, and Ganesh Venayagamoorthy, *An exponential moving average algorithm: Evolutionary algorithms applied to sudoku puzzles*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3214–3221.
- [HE12] Marde Helbig and Andries Engelbrecht, *Analyses of guide update approaches for vector evaluated particle swarm optimisation on dynamic multi-objective optimisation problems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2726–2733.
- [Hen12] Tim Hendtlass, *Restarting particle swarm optimisation*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1720–1728.
- [HHOM12] Yoshiko Hanada, Nagahiro Hosokawa, Keiko Ono, and Mitsuji Muneyasu, *Effectiveness of multi-step crossover fusions in genetic programming*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2389–2396.

- [HLC12] Tzung-Pei Hong, Feng-Shih Lin, and Chun-Hao Chen, *Using the group genetic algorithm for attribute clustering*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 923–927.
- [HLL<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2194–2201.
- [HLYS12] Chih-Li Huo, Yean-Shain Lien, Yu-Hsiang Yu, and Tsung-Ying Sun, *Effectively multi-swarm sharing management for differential evolution*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2798–2805.
- [HMB12] Philip Hingston, Martin Masek, and Daniel Beard, *Using Monte Carlo tree search for replanning in a multistage simultaneous game*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1231–1238.
- [HMu12] Medria Hardhienata, Kathryn Merrick, and Valeri Ugrinovskii, *Task allocation in multi-agent systems using models of motivation and leadership*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1418–1425.
- [HNZ12] Rachel Hunt, Kourosh Neshatian, and Mengjie Zhang, *Scalability analysis of genetic programming classifiers*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 509–516.
- [HOC12] Hsueh En Huang, Yew-Soon Ong, and Xianshun Chen, *Autonomous flock brush for non-photorealistic rendering*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2597–2604.
- [HOK12] Emrah Hancer, Celal Ozturk, and Dervis Karaboga, *Artificial bee colony based image clustering*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2926–2930.
- [HP12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1993–2000.
- [HRS12] David Hadka, Patrick Reed, and Timothy Simpson, *Diagnostic assessment of the Borg MOEA for many-objective product family design problems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1975–1984.
- [HS12a] Ayub Hanif and Robert Smith, *Generation path-switching in sequential Monte-Carlo methods*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1045–1051.
- [HS12b] Sheldon Hui and Ponnuthurai Nagaratnam Suganthan, *Ensemble differential evolution with dynamic subpopulations and adaptive clearing for solving dynamic optimization problems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2629–2636.
- [HSE12] Noha Hamza, Ruhul Sarker, and Daryl Essam, *Differential evolution with a mix of constraint consensus methods for solving a real-world optimization problem*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1118–1124.

- [HSHS12] Trent Higgs, Bela Stantic, Tamjidul Hoque, and Abdul Sattar, *Refining genetic algorithm twin removal for high-resolution protein structure prediction*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 182–189.
- [HW12a] Wesam Herbawi and Michael Weber, *A genetic local search algorithm for multiobjective time-dependent route planning*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 137–143.
- [HW12b] ———, *The ridematching problem with time windows in dynamic ridesharing: A model and a genetic algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3547–3554.
- [HXD<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3435–3442.
- [HY12] Zhenan He and Gary Yen, *A new fitness evaluation method based on fuzzy logic in multiobjective evolutionary algorithms*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 439–446.
- [hZZhSH12] Zhi hui Zhan, Jun Zhang, Yu hui Shi, and Liu Hai-lin, *A modified brain storm optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2544–2551.
- [IC12] David Iclanzan and Camelia Chira, *Modeling and replicating higher-order dependencies in genetic algorithms*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 863–870.
- [IE12] Hamid Izadinia and Mohammad Mehdi Ebadzadeh, *Adaptive quantum-inspired evolution strategy*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1760–1767.
- [IHN12a] Hisao Ishibuchi, Koichiro Hoshino, and Yusuke Nojima, *Evolution of strategies in a spatial IPD game with a number of different representation schemes*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1215–1222.
- [IHN12b] ———, *Strategy evolution in a spatial IPD game where each agent is not allowed to play against itself*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1191–1198.
- [Jar12] Jiri Jaros, *Multi-GPU island-based genetic algorithm for solving the knapsack problem*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 236–243.
- [JBP12] Olacir Castro Junior, Andre Britto, and Aurora Pozo, *A comparison of methods for leader selection in many-objective problems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1654–1661.
- [jGZ12] Yue jiao Gong and Jun Zhang, *Real-time traffic signal control for roundabouts by using a novel PSO-based fuzzy controller*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 771–778.

- [JHG12] Haken Jevne, Pauline Haddow, and Alexei Gaivoronski, *Evolving constrained mean-VaR efficient frontiers*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1079–1086.
- [JHwZ<sup>+</sup>12] Xu Juan, Chen Han-wu, Liu Zhihao, Ruan Yue, and Zhu Wanning, *Quantum secret sharing without exclusive OR of qubits' measuring results*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1675–1678.
- [JK12] Claire Diora Jordan and Trent Kroeger, *An evolutionary algorithm for bilevel optimisation of men's team pursuit track cycling*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2325–2332.
- [JL12] Qin Jin and Zhenjun Liang, *A naive particle swarm optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 29–36.
- [JLG<sup>+</sup>12] Gareth Jones, Chris Lovell, Steve Gunn, Hywel Morgan, and Klaus-Peter Zauner, *Enabling the discovery of computational characteristics of enzyme dynamics*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2452–2459.
- [JM12] Fan Jianchao and Han Min, *Nonlinear model predictive control of ball-plate system based on gaussian particle swarm optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3116–3121.
- [Joh12] Colin Johnson, *Search-based evolutionary operators for extensionally-defined search spaces: Applications to image search*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2279–2285.
- [JSR<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 431–438.
- [JTHC12] Yunzhi Jiang, Pohsiang Tsai, Zhifeng Hao, and Longbing Cao, *A novel auto-parameters selection process for image segmentation*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2666–2672.
- [JTZH12] Zhen Ji, Tao Tian, Zexuan Zhu, and Shan He, *A memory binary particle swarm optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1831–1835.
- [KBB12] Ahmed Kafafy, Ahmed Bounekkar, and Stephane Bonnevay, *Hybrid metaheuristics based on MOEA/D for 0/1 multiobjective knapsack problems: A comparative study*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3300–3307.
- [KCD12a] Saghar Khadem, Kit Yan Chan, and Tharam Dillon, *Optimization of neural network configurations for short-term traffic flow forecasting using orthogonal design*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1184–1190.

- [KCD<sup>+</sup>12b] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 578–584.
- [KG12] Ahmed Kattan and Edgar Galvan, *Evolving radial basis function networks via GP for estimating fitness values using surrogate models*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3161–3167.
- [KGST12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3585–3592.
- [KK12] Oleg Kovarik and Pavel Kordik, *Max-min ant system with linear memory complexity*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 322–326.
- [KLH12] Stephen Kelly, Peter Lichodziejewski, and Malcolm I. Heywood, *On run time libraries and hierarchical symbiosis*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3278–3285.
- [KLL12] David Koloseni, Jouni Lampinen, and Pasi Luukka, *Differential evolution classifier with optimized distance measures from a pool of distances*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2806–2812.
- [KMN12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2373–2380.
- [Kni12] Anthony Knittel, *Learning feature hierarchies under reinforcement*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2420–2427.
- [KP12] Pravesh Kumar and Millie Pant, *Enhanced mutation strategy for differential evolution*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2884–2889.
- [KRK<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1278–1284.
- [KS12] Peter Korosec and Jurij Silc, *The continuous differential ant-stigmergy algorithm applied to dynamic optimization problems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 447–454.
- [KSP<sup>+</sup>12] Pavel Kromer, Vaclav Snasel, Jan Platos, Milos Kudelka, and Zdenek Horak, *An ACO inspired weighting approach for the spectral partitioning of co-authorship networks*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3659–3665.



- [KT12] Korhan Karabulut and M. Fatih Tasgetiren, *A discrete artificial bee colony algorithm for the traveling salesman problem with time windows*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3038–3044.
- [KXF<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3064–3071.
- [KY12] Fumiya Kudo and Tomohiro Yoshikawa, *Knowledge extraction in multi-objective optimization problem based on visualization of pareto solutions*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1871–1876.
- [LAO12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 45–51.
- [LBB12] Afonso Lemonge, Helio Barbosa, and Heder Bernardino, *A family of adaptive penalty schemes for steady-state genetic algorithms*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1554–1561.
- [LBE12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2033–2040.
- [LC12] Myeong-Chun Lee and Sung-Bae Cho, *Interactive differential evolution for image enhancement application in smart phone*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 887–892.
- [LCG12] Hai-Lin Liu, Wen-Qin Chen, and Fangqing Gu, *A novel multi-objective differential evolutionary algorithm based sub-region search*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 244–249.
- [LCJVR12] Jailton Louzada, Celso Camilo-Junior, Auri Vincenzi, and Cassio Rodrigues, *An elitist evolutionary algorithm for automatically generating test data*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 455–462.
- [LCLW12] Yangyang Li, Jing Chen, Ruochen Liu, and Jianshe Wu, *A spectral clustering-based adaptive hybrid multi-objective harmony search algorithm for community detection*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3308–3315.
- [LCT12] Marlon Lima, Eduardo Carrano, and Ricardo Takahashi, *Multiobjective planning of wireless local area networks (wlan) using genetic algorithms*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3526–3533.
- [LCX<sup>+</sup>12] Zhihao Liu, Hanwu Chen, Juan Xu, Wenqian Li, and Zhigang Li, *Deterministic secure quantum communication with mutual authentication based on bell measurement*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1751–1755.

- [LCY12] Yao Liu, Yuk Ying Chung, and Wei Chang Yeh, *Simplified swarm optimization with sorted local search for golf data classification*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 795–802.
- [Ld12] Oscar J. Romero Lopez and Angelica de Antonio, *Evolving the way of doing the right thing*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2573–2580.
- [LDAR12] Thillainathan Logenthiran, Srinivasan Dipti, M. Khambadkone Ashwin, and Thangavelu Sundar Raj, *Optimal sizing of distributed energy resources for integrated microgrids using evolutionary strategy*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 144–151.
- [LG12] Yanjuan Li and Maozu Guo, *Phase transition and new fitness function based genetic inductive loigc programming algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 956–963.
- [LGJB12] Dongseop Lee, Luis Felipe Gonzalez, Periaux Jacques, and Gabriel Bugea, *Multi-objective design optimization of morphing UAV aerofoil/wing using hybridised MOGA*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1743–1750.
- [LH12] Qiang Lu and Qing-Long Han, *A finite-time particle swarm optimization algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 841–848.
- [LHH12] Jenn-Long Liu, Yu-Tzu Hsu, and Chih-Lung Hung, *Development of evolutionary data mining algorithms and their applications to cardiac disease diagnosis*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 690–697.
- [LJ12] Yun-Chia Liang and Josue Rodolfo Cuevas Juarez, *Multilevel image thresholding using relative entropy and virus optimization algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3238–3245.
- [LJZH12a] Ling Lin, Zhen Ji, Zexuan Zhu, and Shan He, *A crown jewel defense strategy based particle swarm optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1817–1822.
- [LJZH12b] Wenmin Liu, Zhen Ji, Zexuan Zhu, and Shan He, *Survival analysis of gene expression data using PSO based radial basis function networks*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3095–3099.
- [LLL12] Ruochen Liu, Yong Liu, and Yangyang Li, *An improved method for multi-objective clustering ensemble algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3355–3362.
- [LLMH12a] Bing Li, Xianneng Li, Shingo Mabuchi, and Kotaro Hirasawa, *Towards automatic discovery and reuse of subroutines in variable size genetic network programming*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 485–492.

- [LLMH12b] Xianneng Li, Bing Li, Shingo Mabu, and Kotaro Hirasawa, *A continuous estimation of distribution algorithm by evolving graph structures using reinforcement learning*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2097–2104.
- [LLT12] Francois Legillon, Arnaud Liefoghe, and El-Ghazali Talbi, *CoBRA: A cooperative coevolutionary algorithm for bi-level optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 735–742.
- [LLW12] Albert Y.S. Lam, Victor O.K. Li, and Zhao Wei, *Chemical reaction optimization for the fuzzy rule learning problem*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3084–3091.
- [LM12] Henry Lehmann and Stefan Menzel, *Evolvability as concept for the optimal design of free-form deformation control volumes*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 517–524.
- [LMH12] Benjamin Lacroix, Daniel Molina, and Francisco Herrera, *Region based memetic algorithm with LS chaining*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 386–391.
- [LMP12] Antonio LaTorre, Santiago Muelas, and Jose-Maria Pena, *Multiple offspring sampling in large scale global optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 964–971.
- [LMQN12] J. J. Liang, S. T. Ma, B. Y. Qu, and Ben Niu, *Strategy adaptative memetic crowding differential evolution for multimodal optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2919–2925.
- [LNL<sup>+</sup>12] Sai Ho Ling, Hung Nguyen, Frank H.F. Leung, Kit Yan Chan, and Frank Jiang, *Intelligent fuzzy particle swarm optimization with cross-mutated operation*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1176–1183.
- [LNOS12] Julien Lepagnot, Amir Nakib, Hamouche Oulhadj, and Patrick Siarry, *A dynamic multi-agent algorithm applied to challenging benchmark problems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2621–2628.
- [LOM<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2911–2918.
- [LP12] Valerio Lattarulo and Geoffrey T. Parks, *A preliminary study of a new multi-objective optimization algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1793–1800.
- [LpC12] Jih-Yiing Lin and Ying ping Chen, *When and what kind of memetic algorithms perform well*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2821–2828.

- [LPM12] Antonio Leitaó, Francisco B. Pereira, and Penousal Machado, *Enhancing cluster geometry optimization with island models*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2218–2225.
- [LQSN12] Jane Jing Liang, Boyang Qu, P. N. Suganthan, and Ben Niu, *Dynamic multi-swarm particle swarm optimization for multi-objective optimization problems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1638–1645.
- [LSLN12] Zhihui Li, Zhigang Shang, J. J. Liang, and Ben Niu, *An improved differential evolution for constrained optimization with dynamic constraint-handling mechanism*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 17–22.
- [LT12a] Chien-Chih Liao and Chuan-Kang Ting, *Extending the lifetime of dynamic wireless sensor networks by genetic algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1016–1023.
- [LT12b] Xin-Lan Liao and Chuan-Kang Ting, *Evolutionary algorithms using adaptive mutation for the selective pickup and delivery problem*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2758–2765.
- [LT12c] Chien-Hung Liu and Chuan-Kang Ting, *Polyphonic accompaniment using genetic algorithm with music theory*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2644–2650.
- [Lud12a] Simone Ludwig, *Clonal selection based genetic algorithm for workflow service selection*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1960–1966.
- [Lud12b] ———, *Step-optimized particle swarm optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1703–1711.
- [LWLX12] Ruochen Liu, Xiao Wang, Yangyang Li, and Zhang Xiangrong, *Multi-objective invasive weed optimization algorithm for clustering*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2202–2209.
- [LXBQ<sup>+</sup>12] J. J. Liang, Mao X. B., B. Y. Qu, B. Niu, and T. J. Chen, *Elite multi-group differential evolution*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2413–2419.
- [LYY12] Changhe Li, Shengxiang Yang, and Ming Yang, *Maintaining diversity by clustering in dynamic environments*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2734–2741.
- [LZ12] Jing Liu and Weicai Zhong, *Continuous game dynamics on populations with a cycle structure under weak selection*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 819–824.
- [LZFG12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2479–2484.

- [LZY12] Shing Wa Leung, Xin Zhang, and Shiu Yin Yuen, *Multiobjective differential evolution algorithm with opposition-based parameter control*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 849–856.
- [MAJ12] Yashar Maali and Adel Al-Jumaily, *A novel partially connected cooperative parallel PSO-SVM algorithm: Study based on sleep apnea detection*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 198–205.
- [Mat12] Mitsukuni Matayoshi, *Landscape information extraction from chromosome based on a quality control approach*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1944–1951.
- [MC12a] Saul Zapotecas MartInez and Carlos A. Coello Coello, *A direct local search mechanism for decomposition-based multi-objective evolutionary algorithms*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3480–3487.
- [MC12b] James Montgomery and Stephen Chen, *A simple strategy for maintaining diversity and reducing crowding in differential evolution*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2790–2797.
- [McC12] Paul McCarthy, *Path-sharing: A new betweenness measure for community identification in networks*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 79–84.
- [MDC12] Renato Maia, Leandro De Castro, and Walmir Caminhas, *Bee colonies as model for multimodal continuous optimization: The optbees algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3363–3370.
- [MFDJ12] Haiping Ma, Minrui Fei, Zhiguo Ding, and Jing Jin, *Biogeography-based optimization with ensemble of migration models for global numerical optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1110–1117.
- [MG12a] Krishna Mishra and Marcus Gallagher, *Variable screening for reduced dependency modelling in gaussian-based continuous estimation of distribution algorithms*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2105–2112.
- [MG12b] Irene Moser and Marius Gheorghita, *Combining search space diagnostics and optimisation*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1900–1907.
- [MGZ12] Marco Mussetta, Francesco Grimaccia, and Riccardo E. Zich, *Comparison of different optimization techniques for the design of electromagnetic devices*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 705–710.
- [MH12a] Yan Meng and Guo Hongliang, *A gene regulatory network based framework for self-organization in mobile sensor networks*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 533–539.
- [MH12b] Boris Mitavskiy and Jun He, *A polynomial time approximation scheme for a single machine scheduling problem using a hybrid evolutionary algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1513–1520.

- [MhG<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3488–3494.
- [MKH12] Mario A. Munoz, Michael Kirley, and Saman Halgamuge, *Landscape characterization of numerical optimization problems using biased scattered data*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2162–2169.
- [ML12a] Rammohan Mallipeddi and Minh Lee, *Ensemble based face recognition using discriminant PCA features*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 327–333.
- [ML12b] ———, *Surrogate model assisted ensemble differential evolution algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2073–2080.
- [MLM<sup>+</sup>12] Aruanda S. G. Meiguins, Roberto C. Lima, Bianchi S. Meiguins, Samuel F. Sousa Junior, and Alex A. Freitas, *Autoclustering - an estimation of distribution algorithm for the automatic generation of clustering algorithms*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2687–2693.
- [MMC12a] Adriana Menchaca-Mendez and Carlos A. Coello Coello, *Solving multi-objective optimization problems using differential evolution and a maximin selection criterion*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3145–3152.
- [MMC<sup>+</sup>12b] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 625–632.
- [MMLD12] Efren Mezura-Montes and Elyar A. Lopez-Davila, *Adaptation and local search in the modified bacterial foraging algorithm for constrained optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1546–1553.
- [MNdC12] Douglas Macharet, Armando Alves Neto, Vilar da Camara Neto, and Mario Campos, *Data gathering tour optimization for Dubins' vehicles*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2041–2048.
- [MOJ<sup>+</sup>12] Alberto Moraglio, Fernando Otero, Colin Johnson, Simon Thompson, and Alex Freitas, *Evolving recursive programs using non-recursive scaffolding*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2242–2249.
- [MOL12] Asad Mohammadi, Mohammad Nabi Omidvar, and Xiaodong Li, *Reference point based multi-objective optimization through decomposition*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2131–2138.
- [MSG<sup>+</sup>12] Marco Mussetta, Houriyeh Shadmehr, Francesco Grimaccia, Alessandro Gandelli, and Riccardo Zich, *Optimization of a radio frequency energy harvesting device*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 52–56.

- [MTY12] Tobias Mahlmann, Julian Togelius, and Georgios N. Yannakakis, *Evolving card sets towards balancing dominion*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1223–1230.
- [Mur12] Keisuke Murakami, *A genetic algorithm for probe testing problem on high-density PCB*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3456–3463.
- [MY12] Michalis Mavrovouniotis and Shengxiang Yang, *Ant colony optimization with memory-based immigrants for the dynamic vehicle routing problem*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2766–2773.
- [NC12] Geoffrey Neumann and David Cairns, *Targeted EDA adapted for a routing problem with variable length chromosomes*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 334–341.
- [NCSC12] Rumana Nazmul, Madhu Chetty, Ram Samudrala, and David Chalmers, *Protein structure prediction based on optimal hydrophobic core formation*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1263–1271.
- [NDDB12] Sune S. Nielsen, Bernabe Dorronsoro, Gregoire Danoy, and Pascal Bouvry, *Novel efficient asynchronous cooperative co-evolutionary multi-objective algorithms*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1372–1378.
- [NGJ12] Sarvesh Nikumbh, Shameek Ghosh, and Valadi Jayaraman, *Biogeography-based informative gene selection and cancer classification using SVM and random forests*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 131–136.
- [NGT12] Yanik Ngoko, Alfredo Goldman, and Denis Trystram, *Malleable resource sharing algorithms for cooperative resolution of problems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 407–414.
- [Nit12] Geoff Nitschke, *Behavioral heterogeneity, cooperation, and collective construction*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 117–124.
- [NKGf12] Minh Van Nguyen, Michael Kirley, and Rodolfo Garcia-Flores, *Community evolution in a scientific collaboration network*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3222–3229.
- [NLQW12] Jiacheng Ni, Li Li, Fei Qiao, and Qidi Wu, *A novel memetic algorithm based on the comprehensive learning PSO*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 915–922.
- [NOB12] Miguel Nicolau, Michael O’Neill, and Anthony Brabazon, *Termination in grammatical evolution: Grammar design, wrapping, and tails*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2381–2388.
- [NP12] Kaustuv Nag and Tandra Pal, *A new archive based steady state genetic algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1864–1870.

- [NSDS12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 980–987.
- [NV12] Antonio Nascimento and Germano Vasconcelos, *An experimental investigation of artificial immune system algorithms for credit risk assessment applications*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1785–1792.
- [NW12] Hien Nguyen and Ian Wood, *Variable selection in statistical models using population-based incremental learning with applications to genome-wide association studies*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2466–2473.
- [NZJC12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3332–3339.
- [OFU<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 92–99.
- [OMB12] Luiz Otavio Oliveira, Rodrigo Luiz Mota, and Dante Augusto Barone, *Clonal selection classifier with data reduction: Classification as an optimization task*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 85–91.
- [OO12] Chung-Ming Ou and C.R. Ou, *Immune memory with associativity: Perspectives on dynamical systems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 928–933.
- [OYT12] Yukiko Orito, Hisashi Yamamoto, and Yasuhiro Tsujimura, *Equality constrained long-short portfolio replication by using probabilistic model-building GA*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1562–1569.
- [PB12] Yasin Volkan Pehlivanoglu and Oktay Baysal, *Improved particle swarm optimization: Catching the big wave on the surf*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 833–840.
- [PBMH12] Amilkar Puris, Rafael Bello, Daniel Molina, and Francisco Herrera, *Optimising real parameters using the information of a mesh of solutions: VMO algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2659–2665.
- [PCW12] Shannon Pace, Andrew Cain, and Clinton Woodward, *A consolidated model of particle swarm optimisation variants*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3270–3277.
- [PGJ12] Stjepan Picek, Marin Golub, and Domagoj Jakobovic, *Influence of the crossover operator in the performance of the hybrid taguchi GA*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 423–430.



- [PGMZ12] Andrea Pirisi, Francesco Grimaccia, Marco Mussetta, and Riccardo E. Zich, *An evolutionary optimized device for energy harvesting from traffic*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3593–3598.
- [PH12] Leon Palafox and Iba Hitoshi, *On the use of population based incremental learning to do reverse engineering on gene regulatory networks*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1317–1324.
- [PKS12] Sandeep Paul, Satish Kumar, and Lotika Singh, *Novel hybrid compact genetic algorithm for simultaneous structure and parameter learning of neural networks*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2567–2572.
- [PL12] Paulo Henrique Pisani and Ana Carolina Lorena, *Evolutionary neural networks applied to keystroke dynamics: Genetic and immune based*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2999–3006.
- [PLK12] In-Won Park, Ki-Baek Lee, and Jong-Hwan Kim, *Multi-objective evolutionary algorithm-based optimal posture control of humanoid robots*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 175–181.
- [PM12] G A Vijayalakshmi Pai and Thierry Michel, *Differential evolution based optimization of risk budgeted equity market neutral portfolios*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1057–1064.
- [PN12] Martin Pilat and Roman Neruda, *An evolutionary strategy for surrogate-based multiobjective optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1857–1863.
- [PRL12] Diego Perez, Philipp Rohlfshagen, and Simon Lucas, *The physical travelling salesman problem: WCCI 2012 competition*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1199–1206.
- [PT12] Yan Pei and Hideyuki Takagi, *Fourier analysis of the fitness landscape for evolutionary search acceleration*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2968–2974.
- [PYP<sup>+</sup>12] Josiah Poon, Dawei Yin, Simon Poon, Runshun Zhang, Baoyan Liu, and Daniel Sze, *Co-evolution of symptom-herb relationship*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2460–2465.
- [QZC12] Jun-Wei Qiu, John K. Zao, and Yu-Hsiang Chou, *A geometrically faithful memetic algorithm for searching sparse representations of EEG signals*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 379–385.
- [RB12] Cristian Rotaru and Octav Brudaru, *Multi-grid cellular genetic algorithm for optimizing variable ordering of ROBDDs*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2529–2536.

- [RC12] Antonio Bolufe Rohler and Stephen Chen, *Multi-swarm hybrid for multi-modal optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2397–2404.
- [RCM12] Olivier Regnier-Coudert and John McCall, *An island model genetic algorithm for Bayesian network structure learning*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3419–3426.
- [RD12] Md. Mazder Rahman and Gerhard Dueck, *An algorithm to find quantum templates*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1668–1674.
- [RDS12] Anguluri Rajasekhar, Swagatam Das, and P. N. Suganthan, *Design of fractional order controller for a servohydraulic positioning system with micro artificial bee colony algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 972–979.
- [RFS12] Ricardo Rabelo, Ricardo Fernandes, and Ivan Silva, *Operational planning of hydrothermal systems based on a fuzzy-PSO approach*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2581–2588.
- [RG12] Robert Reynolds and Yousef Gawasmeh, *Evolving heterogeneous social fabrics for the solution of real-valued optimization problems using cultural algorithms*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3395–3402.
- [RHS<sup>+</sup>12] Mohammad Osiur Rahman, Aini Hussain, Edgar Scavino, M. A. Hannan, and Hassan Basri, *Object identification using DNA computing algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 315–321.
- [RLB12] Ricardo Rabelo, Marcus Lemos, and Daniel Barbosa, *Power system harmonics estimation using particle swarm optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3534–3539.
- [RLK12] Si-Jung Ryu, Ki-Baek Lee, and Jong-Hwan Kim, *Improved version of a multiobjective quantum-inspired evolutionary algorithm with preference-based selection*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2318–2324.
- [RM12a] Lorenzo Riano and T.M. McGinnity, *A robot that autonomously improves skills by evolving computational graphs*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2049–2056.
- [RM12b] Jan Richter and Irene Moser, *A distributed multiobjective approach to negotiations in semi-competitive environments*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3122–3128.
- [RM12c] Sauli Ruuska and Kaisa Miettinen, *Constructing evolutionary algorithms for bilevel multiobjective optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 250–256.
- [RMCS12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 250–256.

and synthesis, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3472–3479.

- [RV12] Josafath Espinosa Ramos and Roberto A. Vazquez, *A new objective function to build seismic networks using differential evolution*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2898–2904.
- [RVZS12] Juan Rada-Vilela, Mengjie Zhang, and Winston Seah, *A performance study on the effects of noise and evaporation in particle swarm optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1892–1899.
- [RZL12] William Raffe, Fabio Zambetta, and Xiaodong Li, *A survey of procedural terrain generation techniques using evolutionary algorithms*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 803–810.
- [SA12] Sanjay Srivastava and Yogesh Anand, *An intelligent system to address occupational health of workers exposed to high risk jobs*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2552–2558.
- [Sat12] Aki-Hiro Sato, *Japanese international air travel: The relationship between flight ticket price and geodesic distance*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1065–1070.
- [SAV<sup>+</sup>12] Isac Sandin, Guilherme Andrade, Felipe Viegas, Daniel Madeira, Leonardo Rocha, Thiago Salles, and Marcos Andre Goncalves, *Aggressive and effective feature selection using genetic programming*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2718–2725.
- [Saw12] Hidefumi Sawai, *Reorganizing a new generation airline network based on an ant-colony optimization-inspired small-world network*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 287–294.
- [SB12] Alexandr Sergeevich and Stephen Bartlett, *Optimizing qubit Hamiltonian parameter estimation algorithm using PSO*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3092–3094.
- [SBP<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 222–227.
- [SCCI12] Wilfried Segretier, Manuel Clergue, Martine Collard, and Luis Izquierdo, *An evolutionary data mining approach on hydrological data with classifier juries*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2853–2860.
- [SCK<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2436–2443.

- [SDAA12] Joseph Shelton, Gerry Dozier, Joshua Adams, and Aniesha Alford, *Permutation-based biometric authentication protocols for mitigating replay attacks*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3630–3634.
- [SDM<sup>+</sup>12] Marcin Seredynski, Gregoire Danoy, Tabatabaei Masoud, Pascal Bouvry, and Pigne Yoann, *Generation of realistic mobility for VANETs using genetic algorithms*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3448–3455.
- [SDN<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2186–2193.
- [SE12] Zhifei Shao and Meng Joo Er, *A review of inverse reinforcement learning theory and recent advances*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 585–592.
- [SES12] Eman Sayed, Daryl Esam, and Ruhul Sarker, *Dependency identification technique for large scale optimization problems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1442–1449.
- [SH12] Jayantha Siriwardana and Saman Halgamuge, *Fast shortest path optimization inspired by shuttle streaming of physarum polycephalum*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3246–3253.
- [SHBI12] Hiroyuki Sato, Yoshihiko Hasegawa, Danushka Bollegala, and Hitoshi Iba, *Probabilistic model building GP with belief propagation*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2089–2096.
- [SK12] Claudia Szabo and Trent Kroeger, *Evolving multi-objective strategies for task allocation of scientific workflows on public clouds*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2302–2309.
- [SLA12] Jeremy Stringer, Gary Lamont, and Geoffrey Akers, *Radar phase-coded waveform design using multi-objective evolutionary algorithms*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2310–2317.
- [SLC12] Tsu-Wang Shen, Ting-Fong Laio, and Shao-Tsu Chen, *Hormone concentration inception: Development an artificial immune system with immunomodulator (AISI) intervention*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 656–661.
- [SLL<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3555–3562.
- [SMD12] Ankur Sinha, Pekka Malo, and Kalyanmoy Deb, *Unconstrained scalable test problems for single-objective bilevel optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2333–2340.

- [SML12a] Roberto Santana, Alexander Mendiburu, and Jose A. Lozano, *An analysis of the use of probabilistic modelling for synaptic connectivity prediction from genomic data*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3495–3502.
- [SML12b] ———, *Structural transfer using EDAs: An application to multi-marker tagging SNP selection*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3206–3213.
- [SMM12a] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 364–371.
- [SMM12b] Mahdi Setayesh, Zhang Mengjie, and Johnston Mark, *Effects of static and dynamic topologies in particle swarm optimisation for edge detection in noisy images*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1341–1348.
- [SMT12] Kate Smith-Miles and Thomas Tan, *Measuring algorithm footprints in instance space*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3569–3576.
- [SNB<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 350–357.
- [SND12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 711–718.
- [SOTJ12] Chun-Wei Seah, Yew-Soon Ong, Ivor W. Tsang, and Siwei Jiang, *Pareto rank learning in multi-objective evolutionary algorithms*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2613–2620.
- [SP12] Rommel Saraiva and Placido Pinheiro, *A novel application of crossover operator to a hybrid optimization framework: investigation into cutting problems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 633–639.
- [SPB12a] Tarun Kumar Sharma, Millie Pant, and Jagdish Chand Bansal, *Artificial bee colony with mean mutation operator for better exploitation*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3045–3051.
- [SPB12b] ———, *Some modifications to enhance the performance of artificial bee colony*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3577–3584.
- [SPD12] Ankur Sinha, Anmol Pandey, and Kalyanmoy Deb, *Solving high objective problems in fixed interactions with the decision maker*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2294–2301.

- [SPI12] Vishal Soam, Leon Palafox, and Hitoshi Iba, *Multi-objective portfolio optimization and rebalancing using genetic algorithms with local search*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1087–1093.
- [SQC12] Prakash Shelokar, Arnaud Quirin, and Oscar Cordon, *Automatic extraction of common research areas in world scientograms using the multiobjective subdue algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3230–3237.
- [SR12a] Amit Saha and Tapabrata Ray, *Equality constrained multi-objective optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1395–1401.
- [SR12b] ———, *A repair mechanism for active inequality constraint handling*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 546–553.
- [SS12] Eugene Semenkin and Maria Semenkina, *Self-configuring genetic programming algorithm with modified uniform crossover*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2501–2506.
- [SSJO12] Koji Shimoyama, Koma Sato, Shinkyu Jeong, and Shigeru Obayashi, *Comparison of the criteria for updating kriging response surface models in multi-objective optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2170–2177.
- [SSJS12] Ryosuke Sano, Takuya Shindo, Kenya Jin’no, and Toshimichi Saito, *PSO-based multiple optima search systems with switched topology*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3340–3346.
- [SSL12] Eduardo Segredo, Carlos Segura, and Coromoto Leon, *Analysing the robustness of multiobjectivisation parameters with large scale optimisation problems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1729–1736.
- [SSV12] Lukas Sekanina, Vojtech Salajka, and Zdenek Vasicek, *Two-step evolution of polymorphic circuits for image multi-filtering*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1481–1488.
- [STM12] Thiago Santos, Ricardo H. C. Takahashi, and Gladston J. P. Moreira, *A CMA stochastic differential equation approach for many-objective optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3294–3299.
- [STT12a] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2113–2120.
- [STT12b] ———, *A hybrid estimation of distribution algorithm for solving the multi-objective multiple traveling salesman problem*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1809–1816.

- [STV12] Luciano Silveira, Ricardo Tanscheit, and Marley Vellasco, *Quantum-inspired genetic algorithms applied to ordering combinatorial optimization problems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 295–301.
- [SWW12] Chengyong Si, Lei Wang, and Qidi Wu, *Mapping constrained optimization problems to algorithms and constraint handling techniques*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3379–3386.
- [SYGL12] Xiaoyan Sun, Lei Yang, Dunwei Gong, and Ming Li, *Interactive genetic algorithm assisted with group decision making-based collective intelligence*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2673–2680.
- [SYS12] Qiao Shi, Wei Yin, and Andy Song, *Analysis of motion detectors evolved by genetic programming*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 501–508.
- [SZLN12] Zhigang Shang, Li Zhihui, J. J. Liang, and Ben Niu, *Control parameters self-adaptation in differential*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 65–70.
- [SZP12] Thayalan Sandran, Nordin Zakaria, and Anindya Jyoti Pal, *Performance profile of some hybrid heuristic search techniques using compiler flag selection as a seed example*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2474–2478.
- [TALA12] Jiangjun Tang, Sameer Alam, Chris Lokan, and Hussein Abbass, *A multi-objective evolutionary method for dynamic airspace re-sectorization using sectors clipping and similarities*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3607–3614.
- [Tan12a] Swee Chuan Tan, *Simplifying and improving swarm-based clustering*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3190–3197.
- [Tan12b] Maolin Tang, *Evolutionary placement of continuously operating reference stations of network real-time kinematic*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 415–422.
- [TBF12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2521–2528.
- [TC12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1301–1308.
- [TCNT12] Cristiane Taroco, Eduardo Carrano, Oriane Neto, and Ricardo Takahashi, *A faster genetic algorithm for substation location and network design of power distribution systems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 463–468.
- [TCpC12] Pei-Chuan Tsai, Chih-Ming Chen, and Ying ping Chen, *Sparse degrees analysis for LT codes optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1010–1015.

- [TCZ<sup>+</sup>12] Yanyun Tao, Jian Cao, Yuzhen Zhang, Jiajun Lin, and Minglu Li, *Using module-level evolvable hardware approach in design of sequential logic circuits*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2234–2241.
- [TDF12] Tea Tusar, Erik Dovgan, and Bogdan Filipic, *Evolutionary scheduling of flexible offers for electricity supply and demand*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1160–1167.
- [TEPT12] Sotiris Tasoulis, Michael Epitropakis, Vassilis Plagianakos, and Dimitris Tasoulis, *Density based projection pursuit clustering*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3643–3650.
- [TF12] Shigeyoshi Tsutsui and Noriyuki Fujimoto, *Implementation of histogram based sampling algorithm within an EDA scheme with CUDA*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1247–1254.
- [TNK12] Yuichiro Toda, Tsubasa Narita, and Naoyuki Kubota, *Information visualization based on 3D modeling for human-friendly teleoperation*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3623–3629.
- [TO12] Mio Takano and Yuko Osana, *Automatic composition system using genetic algorithm and n-gram model considering melody blocks*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 525–532.
- [TS12a] Tetsuyuki Takahama and Setsuko Sakai, *Differential evolution with dynamic strategy and parameter selection by detecting landscape modality*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 593–600.
- [TS12b] ———, *Efficient constrained optimization by the epsilon constrained rank-based differential evolution*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1387–1394.
- [TS12c] ———, *Large scale optimization by differential evolution with landscape modality detection and a diversity archive*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2876–2883.
- [TS12d] Aram Ter-Sarkisov, *Elitism levels traverse mechanism for the derivation of upper bounds on unimodal functions*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 617–624.
- [TSS12] Anupam Trivedi, Deepak Sharma, and Dipti Srinivasan, *Multi-objectivization of short-term unit commitment under uncertainty using evolutionary algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 271–278.
- [TST<sup>+</sup>12] Miwako Tsuji, Mitsuhisa Sato, Akifumi Tanabe, Yuji Inagaki, and Tetsuo Hashimoto, *An asynchronous parallel genetic algorithm for the maximum likelihood phylogenetic tree search*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2349–2356.



- [TT12] Masahiro Tanaka and Tomoya Takahama, *Restoration of motion-blurred line drawings by differential evolution and Richardson-Lucy algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1489–1496.
- [TTM12] Hiroshi Takenouchi, Masataka Tokumaru, and Noriaki Muranaka, *Performance evaluation of interactive evolutionary computation with tournament-style evaluation*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1–8.
- [TTTK12] Tsujimoto Takahiro, Shindo Takuya, Kimuta Takayuki, and Jin'no Kenya, *A relationship between network topology and search performance of PSO*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 358–363.
- [UH12] Takeshi Uchitane and Toshiharu Hatanaka, *Experimental study for multi-objective PSO with single objective guide selection*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 684–689.
- [ULS12] Ozgur Ulker and Dario Landa-Silva, *Evolutionary local search for solving the office space allocation problem*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3615–3622.
- [Une12] Tatsuo Unemi, *SBArt4 for an automatic evolutionary art*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2605–2612.
- [VBCT12] Sanderson Vanucci, Rafael Bicalho, Eduardo Carrano, and Ricardo Takahashi, *A modified NSGA-II for the multiobjective multi-mode resource-constrained project scheduling problem*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 728–734.
- [VDS12] Andrea Valsecchi, Sergio Damas, and Jose Santamaria, *An image registration approach using genetic algorithms*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1450–1457.
- [VFCS12] Eduardo Vazquez-Fernandez, Carlos Coello, and Feliu Sagols, *An evolutionary algorithm coupled with the hooke-jeeves algorithm for tuning a chess evaluation function*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1255–1262.
- [VHZH12] Ali Vahdat, Malcolm I. Heywood, and A. Nur Zincir-Heywood, *Symbiotic evolutionary subspace clustering*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2845–2852.
- [VMFS12] Susana Vieira, Luis Mendonca, Goncalo Farinha, and Joao Sousa, *Metaheuristics for feature selection: application to sepsis outcome prediction*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 934–941.
- [VRBF12] Lumadaiaara Vitorino, Sergio Ribeiro, and Carmelo Bastos-Filho, *A hybrid swarm intelligence optimizer based on particles and artificial bees for high-dimensional search spaces*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 23–28.

- [VRGVPL12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 988–994.
- [VRK12] Sriharsha Vathsavayi, Outi Raiha, and Kai Koskimies, *Using quality farms in multi-objective genetic software architecture synthesis*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 609–616.
- [VS12] Zdenek Vasicek and Lukas Sekanina, *On area minimization of complex combinational circuits using cartesian genetic programming*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 825–832.
- [VWON12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3540–3546.
- [WB12a] Lyndon While and Lucas Bradstreet, *Applying the WFG algorithm to calculate incremental hypervolumes*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1521–1528.
- [WB12b] Henry Williams and Will Browne, *Integration of learning classifier systems with simultaneous localisation and mapping for autonomous robotics*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2428–2435.
- [WBE12] Stefan Wink, Thomas Baeck, and Michael Emmerich, *A meta-genetic algorithm for solving the capacitated vehicle routing problem*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3635–3642.
- [WC12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 108–111.
- [WF12] Xin Wei and Shigeru Fujimura, *Parallel quantum evolutionary algorithms with client-server model for multi-objective optimization on discrete problems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3262–3269.
- [WGL<sup>+</sup>12] Long Wen, Liang Gao, Xinyu Li, Guohui Zhang, and Yang Yang, *Application of free pattern search on the surface roughness prediction in end milling*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 765–770.
- [WHH<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1239–1246.
- [WHSL12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 662–668.

- [WI12] Daiki Watanabe and Kazuyuki Ito, *Roles of real-world properties in the baldwin effect*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 399–406.
- [WLB12] Garnett Wilson, Derek Leblanc, and Wolfgang Banzhaf, *Using sector information with linear genetic programming for intraday equity price trend analysis*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1071–1078.
- [WMCRC12] Yanghui Wu, John McCall, David Corne, and Olivier Regnier-Coudert, *Landscape analysis for hyperheuristic bayesian network structure learning on unseen problems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3198–3205.
- [WS12] Madawa Weerasinghe and Georgy Sofronov, *A modified cross entropy method for detecting multiple change points in DNA count data*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2001–2008.
- [WT12] Xianpeng Wang and Lixin Tang, *Multi-objective optimization using a hybrid differential evolution algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2081–2088.
- [WW12a] Jingxuan Wei and Yuping Wang, *Hyper rectangle search based particle swarm algorithm for dynamic constrained multi-objective optimization problems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 190–197.
- [WW12b] Slawomir Wesolkowski and Daniel Wojtaszek, *SaFESST: Stochastic fleet estimation under steady state tasking via evolutionary fleet scheduling*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1325–1332.
- [WWF12] Tzai-Der Wang, Xiaochuan Wu, and Colin Fyfe, *Comparative study of visualisation methods for temporal data*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1052–1056.
- [WWW12] Slawomir Wesolkowski, Daniel Wojtaszek, and Kyle Willick, *Multi-objective optimization of the fleet mix problem using the SaFER model*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2341–2348.
- [WXCZ12] Zhou Wu, Lu Xu, T. W. S. Chow, and Mingbo Zhao, *Local cooperation delivers global optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2271–2278.
- [WXL12] Shuzhen Wan, Shengwu Xiong, and Yi Liu, *Prediction based multi-strategy differential evolution algorithm for dynamic environments*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 640–647.
- [WXMH12] Lutao Wang, Wei Xu, Shingo Mabu, and Kotaro Hirasawa, *Rule accumulation method based on credit genetic network programming*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3651–3658.
- [WYCJ12] Ma Wenping, Huang Yuanyuan, Li Congling, and Liu Jing, *Image segmentation based on a hybrid immune memetic algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1679–1686.

- [WYCZ12] Lin Wang, Bo Yang, Yuehui Chen, and Xiuyang Zhao, *Predict the hydration of portland cement using differential evolution*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3443–3447.
- [XAS12] Jian Xiong, Hussein Abbass, and Kamran Shafi, *Multi-uncertainty problems (MUP) with applications to managing risk in resource-constrained project scheduling*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1505–1512.
- [XLL<sup>+</sup>12] Jin Xu, Albert Y.S. Lam, Victor O.K. Li, Qiwei Li, and Xiaodan Fan, *Short adjacent repeat identification based on chemical reaction optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 601–608.
- [XLZD12] Jiaqing Xu, Qi Lv, Jie Zhou, and Yong Dou, *A self-organizing and self-adaptive french flag organism based on lateral activation model*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 493–500.
- [XSC12] Feng Xie, Andy Song, and Vic Ciesielski, *Event detection in time series by genetic programming*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2507–2514.
- [XXC12] Shui Xinguo, Zuo Xingquan, and Chen Cheng, *A cultural clonal selection algorithm based fast vehicle scheduling approach*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 893–899.
- [XZ12] Li Xiao and Xingquan Zuo, *Multi-DEPSO—a DE and PSO based hybrid algorithm in dynamic environments*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1601–1607.
- [XZB12] Bing Xue, Mengjie Zhang, and Will N. Browne, *New fitness functions in binary particle swarm optimisation for feature selection*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 779–786.
- [Yan12] Li Yang, *Adaptive learning evaluation model for evolutionary art*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2589–2596.
- [YATNM12] Danial Yazdani, Mohammad Reza Akbarzadeh-Totonchi, Babak Nasiri, and Mohammad Reza Meybodi, *A new artificial fish swarm algorithm for dynamic optimization problems*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1538–1545.
- [YGLL12] Xiangjuan Yao, Dunwei Gong, Yongjin Luo, and Ming Li, *Test data reduction based on dominance relations of target statements*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 743–750.
- [YGWN12] Joseph Yuen, Sophia Gao, Markus Wagner, and Frank Neumann, *An adaptive data structure for evolutionary multi-objective algorithms with unbounded archives*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1985–1992.

- [YHN<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3503–3510.
- [YLI<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1662–1667.
- [YLL12a] James J.Q. Yu, Albert Y.S. Lam, and Victor O.K. Li, *Real-coded chemical reaction optimization with different perturbation functions*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2983–2990.
- [YLL12b] James J.Q. Yu, Victor O.K. Li, and Albert Y.S. Lam, *Sensor deployment for air pollution monitoring using public transportation system*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 995–1001.
- [YMH12] Yang Yang, Shingo Mabu, and Kotaro Hirasawa, *A multitasks learning approach to autonomous agent based on genetic network programming*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1937–1943.
- [yQsWpWJ12] Fei yue Qiu, Yu shi Wu, Li ping Wang, and Bo Jiang, *Bipolar preferences dominance based evolutionary algorithm for many-objective optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 787–794.
- [YSMN12a] Mitchell Yuwono, Steven W. Su, Bruce Moulton, and Hung Nguyen, *Fast unsupervised learning method for rapid estimation of cluster centroids*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2139–2146.
- [YSMN12b] ———, *Method for increasing the computation speed of an unsupervised learning approach for data clustering*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3007–3014.
- [ySsCpM12] Xiao yan Sun, Shan shan Chen, and Xiao ping Ma, *Semi-supervised ranking SVM-assisted IGA with hierarchical evaluations*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3153–3160.
- [YSZ12] Jun Hee Yoo, Ho-Sik Seok, and Byoung-Tak Zhang, *Evolutionary particle filtering for sequential dependency learning from video data*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1608–1615.
- [YT12] Zeratul Mohd Yusoh and Maolin Tang, *Clustering composite SaaS components in cloud computing using a grouping genetic algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2357–2364.
- [YX12] Yuan Yuan and Hua Xu, *HHS/LNS: An integrated search method for flexible job shop scheduling*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 811–818.

- [YY12] Chia-Hsuan Yeh and Chun-Yi Yang, *Can learning affect the effectiveness of price limits?*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1094–1101.
- [YYC<sup>+</sup>12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 698–704.
- [ZB12] Ales Zamuda and Janez Brest, *Tree model reconstruction innovization using multi-objective differential evolution*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1616–1623.
- [ZCY12] Lin Zhu, Longbing Cao, and Jie Yang, *Multiobjective evolutionary algorithm-based soft subspace clustering*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2837–2844.
- [ZFX12] Wei Zhang, Xu Feng, Yongjie Zhang, and Xiong Xiong, *Information diffusion and its impacts on artificial stock markets in learning process*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1146–1151.
- [ZHD12] John K. Zao, Martin Hornansky, and Pei-Lun Diao, *Design of optimal short-length LT codes using evolution strategies*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 152–160.
- [ZHY12] Lifeng Zhang, Rong He, and Mengling Yan, *Heterogeneous double populations based hybrid genetic algorithm design for training feedforward neural networks*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2991–2998.
- [ZKH12] 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 algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2960–2967.
- [ZL12a] Kaibo Zhang and Bin Li, *Cooperative coevolution with global search for large scale global optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3031–3037.
- [ZL12b] Xin Zhang and Wenjian Luo, *Evolutionary repair for evolutionary design of combinational logic circuits*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1473–1480.
- [ZLJH12] Zexuan Zhu, Wenmin Liu, Zhen Ji, and Shan He, *Memetic clustering based on particle swarm optimizer and k-means*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2905–2910.
- [ZLT12] Kaibo Zhang, Bin Li, and Lixiang Tan, *Empirical study of the effect of variable correlation on grouping in cooperative coevolutionary evolutionary algorithms*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 308–314.

- [ZMPW12] 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*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1885–1891.
- [ZS12a] Anhong Zhang and Rob Saunders, *Towards the evolution of a language for creative design*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1024–1029.
- [ZS12b] Shi-Zheng Zhao and P. N. Suganthan, *Comprehensive comparison of convergence performance of optimization algorithms based on nonparametric statistical tests*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2861–2867.
- [ZSS12] Zheng Zhang, Hock Soon Seah, and Jixiang Sun, *A hybrid particle swarm optimization with cooperative method for multi-object tracking*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1624–1629.
- [ZY12a] Weiwei Zhang and Gary Yen, *Immune-inspired evolutionary algorithm for constrained optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1695–1702.
- [ZY12b] Xin Zhang and Shiu Yin Yuen, *Opposition-based adaptive differential evolution*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 1843–1850.
- [ZZ12] Lifeng Zhang and Chenxi Zhou, *Self organized parallel genetic algorithm to automatically realize diversified convergence*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 719–727.
- [ZZL12] Xiangrong Zhang, Erlei Zhang, and Runxin Li, *Optimized feature extraction by immune clonal selection algorithm*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 2681–2686.
- [ZZY12] Hao Zhang, Yunlong Zhu, and Xiaohui Yan, *Multi-hive artificial bee colony algorithm for constrained multi-objective optimization*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 554–561.
- [ZZZ12] Aimin Zhou, Qingfu Zhang, and Guixu Zhang, *A multiobjective evolutionary algorithm based on decomposition and probability model*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation (Brisbane, Australia) (Xiaodong Li, ed.), 10-15 June 2012, pp. 3129–3136.