

Список литературы

- [Abdulhamid 12] Fahmi Abdulhamid, Andy Song, Kouros Neshatian & Mengjie Zhang. *Evolving Genetic Programming Classifiers with Loop Structures*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2710–2717, Brisbane, Australia, 10-15 June 2012.
- [Abello 12] Manuel Abello, Zbigniew Michalewicz & Lam Thu Bui. *A Reactive-Proactive Approach for Solving Dynamic Scheduling with Time-varying Number of Tasks*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2121–2130, Brisbane, Australia, 10-15 June 2012.
- [Adewumi 12] Aderemi Adewumi, Nigel Budlender & Micheal Olusanya. *Optimizing the Assignment of Blood in a Blood Banking System: Some Initial Results*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 751–756, Brisbane, Australia, 10-15 June 2012.
- [Ahmed 12] Kattan Ahmed & Fatima Shaheen. *PSO as a Meta-Search for Hyper-GA System to Evolve Optimal Agendas for Sequential Multi-Issue Negotiation*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3108–3115, Brisbane, Australia, 10-15 June 2012.
- [Akay 12] Bahriye Akay & Ibrahim Kirmizi. *Structural Optimization of Wavelet Packets using Swarm Algorithms*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2931–2935, Brisbane, Australia, 10-15 June 2012.
- [Al-Sahaf 12] Harith Al-Sahaf, Andy Song, Kouros Neshatian & Mengjie Zhang. *Extracting Image Features for Classification By Two-Tier Genetic Programming*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1630–1637, Brisbane, Australia, 10-15 June 2012.
- [Alam 12a] Sameer Alam, Chris Lokan & Hussein Abbass. *What Can Make an Airspace Unsafe? Characterizing Collision Risk using Multi-Objective Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 214–221, Brisbane, Australia, 10-15 June 2012.
- [Alam 12b] Shafiq Alam, Dobbie Gillian, Patricia Riddle & Yun Sing Koh. *Hierarchical PSO Clustering Based Recommender System*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 879–886, Brisbane, Australia, 10-15 June 2012.
- [Albaity 12] Heyam Albaity, Souham Meshoul & Ata Kaban. *On Extending Quantum Behaved Particle Swarm Optimization to MultiObjective Context*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1967–1974, Brisbane, Australia, 10-15 June 2012.
- [Albukhanajer 12] Wissam Albukhanajer, Yaochu Jin, Johann Briffa & Godfried Williams. *Evolutionary Multi-Objective Optimization of Trace Transform for Invariant Feature Extraction*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1458–1465, Brisbane, Australia, 10-15 June 2012.

- [Aleti 12] Aldeida Aleti, Irene Moser & Sanaz Mostaghim. *Adaptive Range Parameter Control*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2405–2412, Brisbane, Australia, 10-15 June 2012.
- [Alghamdi 12] Hanan Alghamdi, Lilian Tang & Saleh Alshomrani. *Hybrid ACO and TOFA Feature Selection Approach for Text Classification*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3184–3189, Brisbane, Australia, 10-15 June 2012.
- [Ali 12] Mostafa Ali, Ayad Salhie & Robert Reynolds. *Socio-Cultural Evolution via Neighborhood restructuring in Intricate Multi-Layered Networks*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3387–3394, Brisbane, Australia, 10-15 June 2012.
- [Almakhlafi 12] Ahmad Almakhlafi & Joshua Knowles. *Benchmarks for Maintenance Scheduling Problems in Power Generation*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3464–3471, Brisbane, Australia, 10-15 June 2012.
- [Alsheddy 12] Abdullah Alsheddy & Michael Kampouridis. *Off-line Parameter Tuning for Guided Local Search Using Genetic Programming*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 112–116, Brisbane, Australia, 10-15 June 2012.
- [Alvares 12] Marcos Alvares, Fernando Buarque & Tshilidzi Marwala. *Optimizing Risk Management Using NSGA-II*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 477–484, Brisbane, Australia, 10-15 June 2012.
- [Amaral 12] Laurence Amaral & Estevam Hruschka. *Never-Ending Learning Principles in Gene Ontology Classification using Genetic Algorithms*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 676–683, Brisbane, Australia, 10-15 June 2012.
- [Anh 12] Han The Anh, Moniz Pereira Luis & C. Santos Francisco. *Intention Recognition, Commitment and the Evolution of Cooperation*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2025–2032, Brisbane, Australia, 10-15 June 2012.
- [Arias-Montano 12] Alfredo Arias-Montano, Carlos A. Coello Coello & Efren Mezura-Montes. *Multi-Objective Airfoil Shape Optimization Using a Multiple-Surrogate Approach*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2178–2185, Brisbane, Australia, 10-15 June 2012.
- [Asafuddoula 12] Md Asafuddoula, Tapabrata Ray, Ruhul Sarker & Khairul Alam. *An Adaptive Constraint Handling Approach Embedded MOEA/D*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2651–2658, Brisbane, Australia, 10-15 June 2012.
- [Ashlock 12a] Daniel Ashlock & Wendy Ashlock. *Impact of Regulatory Genes On Optimization Behavior*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3403–3410, Brisbane, Australia, 10-15 June 2012.
- [Ashlock 12b] Daniel Ashlock & Sharron McNicholas. *Single Parent Generalization of Cellular Automata Rules*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 263–270, Brisbane, Australia, 10-15 June 2012.

- [Atyabi 12a] Adham Atyabi, Martin Luerssen, Sean P. Fitzgibbon & David M. W. Powers. *Adapting Subject-Independent Task-Specific EEG Feature Masks using PSO*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2155–2161, Brisbane, Australia, 10-15 June 2012.
- [Atyabi 12b] Adham Atyabi, Martin Luerssen, Sean P. Fitzgibbon & David M. W. Powers. *Dimension Reduction in EEG Data using Particle Swarm Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2147–2154, Brisbane, Australia, 10-15 June 2012.
- [Atyabi 12c] Adham Atyabi, Martin Luerssen, Sean P. Fitzgibbon & David M. W. Powers. *Evolutionary feature selection and electrode reduction for EEG classification*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 161–168, Brisbane, Australia, 10-15 June 2012.
- [Au 12] Chun-Kit Au & Ho-Fung Leung. *Eigenspace sampling in the mirrored variant of (1,lambda)-CMA-ES*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 871–878, Brisbane, Australia, 10-15 June 2012.
- [Avasarala 12] Viswanath Avasarala & Piero Bonissone. *iPresage: An innovative Patent Landscaping tool*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 372–378, Brisbane, Australia, 10-15 June 2012.
- [Balazs 12] Krisztian Balazs & Laszlo T. Koczy. *Hybrid Bacterial Iterated Greedy Heuristics for the Permutation Flow Shop Problem*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1497–1504, Brisbane, Australia, 10-15 June 2012.
- [Balcar 12] Stepan Balcar, Martin Pilat & Roman Neruda. *An Evolutionary Algorithm for 2D Semi-Guillotinable Circular Saw Cutting*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1908–1912, Brisbane, Australia, 10-15 June 2012.
- [Bansal 12] Richa Bansal, Kamal Srivastava & Sanjay Srivastava. *A Hybrid Evolutionary Algorithm for the Cutwidth Minimization Problem*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2263–2270, Brisbane, Australia, 10-15 June 2012.
- [Barmada 12] Sami Barmada, Marco Raugi & Mauro Tucci. *Global Optimization Algorithm Based on Self-Organizing Centroids*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1851–1856, Brisbane, Australia, 10-15 June 2012.
- [Bashir 12a] Hassan Bashir & Richard Neville. *Convergence Measurement in Evolutionary Computation using Price’s Theorem*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2559–2566, Brisbane, Australia, 10-15 June 2012.
- [Bashir 12b] Hassan Bashir & Richard Neville. *A Hybrid Evolutionary Computation Algorithm for Global Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2829–2836, Brisbane, Australia, 10-15 June 2012.

- [Baydin 12] Atilim Gunes Baydin & Ramon Lopez de Mantaras. *Evolution of Ideas: A Novel Memetic Algorithm Based on Semantic Networks*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2774–2781, Brisbane, Australia, 10-15 June 2012.
- [Beer 12] Christopher Beer, Tim Hendtlass & James Montgomery. *Improving Exploration in Ant Colony Optimisation with Antennation*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2944–2951, Brisbane, Australia, 10-15 June 2012.
- [Benedicic 12] Lucas Benedicic, Mitja Stular & Peter Korosec. *Balancing downlink and uplink soft-handover areas in UMTS networks*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1002–1009, Brisbane, Australia, 10-15 June 2012.
- [Bhowmik 12] Pavel Bhowmik, Pratyusha Rakshit, Amit Konar, Eunjin Kim & Atulya K. Nagar. *DE-TDQL: An Adaptive Memetic Algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2444–2451, Brisbane, Australia, 10-15 June 2012.
- [Bidlo 12] Michal Bidlo & Zdenek Vasicek. *Evolution of Cellular Automata Using Instruction-Based Approach*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2057–2064, Brisbane, Australia, 10-15 June 2012.
- [Bodas-Sagi 12] Diego Bodas-Sagi, Francisco J. Soltero, J. Ignacio Hidalgo, Pablo Fernandez-Blanco & Francisco Fernandez de Vega. *A Technique for the optimization of the parameters of Technical Indicators with Multi-Objective Evolutionary Algorithms*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2493–2500, Brisbane, Australia, 10-15 June 2012.
- [Bonyadi 12] Mohammad Reza Bonyadi & Zbigniew Michalewicz. *A Fast Particle Swarm Optimization Algorithm for the Multidimensional Knapsack Problem*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1402–1409, Brisbane, Australia, 10-15 June 2012.
- [Borges 12] Ederson Borges, Daniel G. Ferrari & Leandro N. de Castro. *Silhouette-Based Clustering using an Immune Network*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1768–1776, Brisbane, Australia, 10-15 June 2012.
- [Brabazon 12] Anthony Brabazon, Arlindo Silva & Michael O’Neill. *Optimal Patent Design: An Agent-based Approach*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1102–1109, Brisbane, Australia, 10-15 June 2012.
- [Brest 12] Janez Brest, Borko Boskovic, Ales Zamuda, Iztok Fister & Mirjam Sepesy Maucec. *Self-Adaptive Differential Evolution Algorithm with a Small and Varying Population Size*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2868–2875, Brisbane, Australia, 10-15 June 2012.
- [Britto 12a] Andre Britto & Aurora Pozo. *Using Archiving Methods to Control Convergence and Diversity for Many-Objective Problems in Particle Swarm Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1646–1653, Brisbane, Australia, 10-15 June 2012.

- [Britto 12b] Ricardo Britto, Pedro Santos Neto, Ricardo Rabelo, Werney Ayala & Thiago Soares. *A Hybrid Approach to Solve the Agile Team Allocation Problem*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3599–3606, Brisbane, Australia, 10-15 June 2012.
- [Bruck 12] Bruno Bruck, Andre’ Santos & Jose’ Arroyo. *Hybrid metaheuristic for the single vehicle routing problem with deliveries and selective pickups*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1913–1920, Brisbane, Australia, 10-15 June 2012.
- [Bui 12] Vinh Bui, Axel Bender & Hussein Abbass. *An Expressive GL-2 Grammar for Representing Story-like Scenarios*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2782–2789, Brisbane, Australia, 10-15 June 2012.
- [Buijs 12] Joos Buijs, Boudewijn van Dongen & Wil van der Aals. *A Genetic Algorithm for Discovering Process Trees*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1929–1936, Brisbane, Australia, 10-15 June 2012.
- [Bukhtoyarov 12] Vladimir Bukhtoyarov & Eugene Semkin. *Neural Networks Ensemble Approach for Detecting Attacks in Computer Networks*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3078–3083, Brisbane, Australia, 10-15 June 2012.
- [Caamano 12] Pilar Caamano, Francisco Bellas, Jose A. Becerra, Vicente Diaz & Richard J. Duro. *Experimental Analysis of the Relevance of Fitness Landscape Topographical Characterization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3371–3378, Brisbane, Australia, 10-15 June 2012.
- [Cai 12] Xinye Cai, Zhenzhou Hu, Sanjoy Das & Stephen Welch. *A Hierarchical Pareto Dominance based Multi-objective Approach for the Optimization of Gene Regulatory Network Models*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1737–1742, Brisbane, Australia, 10-15 June 2012.
- [Campomanes-Alvarez 12] B. Rosario Campomanes-Alvarez, Sergio Damas & Oscar Cordon. *Mesh Simplification for 3D Modeling using Evolutionary Multi-Objective Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1364–1371, Brisbane, Australia, 10-15 June 2012.
- [Cancino 12] Waldo Cancino, Nadia Boukhelifa & Evelyne Lutton. *EvoGraphDice: Interactive Evolution for Visual Analytics*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2286–2293, Brisbane, Australia, 10-15 June 2012.
- [Cao 12] Hongqing Cao, Friedrich Recknagel & Philip T. Orr. *The Experimental Study of Population-based Parameter Optimization Algorithms on Rule-based Ecological Modelling*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3254–3261, Brisbane, Australia, 10-15 June 2012.
- [Carraro 12] Luiz Antonio Carraro & Leandro Nunes de Castro. *A Clonal Selection Algorithm to Minimize Reshuffling in Container Stacking Operations*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1777–1784, Brisbane, Australia, 10-15 June 2012.

- [Castle 12] Tom Castle & Colin Johnson. *Evolving Program Trees with Limited Scope Variable Declarations*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2250–2257, Brisbane, Australia, 10-15 June 2012.
- [Cepeda 12] Jaime Cepeda, Jose Rueda & Istvan Erlich. *Identification of Dynamic Equivalents based on Heuristic Optimization for Smart Grid Applications*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1168–1175, Brisbane, Australia, 10-15 June 2012.
- [Cervante 12] Liam Cervante, Bing Xue, Mengjie Zhang & Lin Shang. *Binary Particle Swarm Optimisation for Feature Selection: A Filter Based Approach*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1877–1884, Brisbane, Australia, 10-15 June 2012.
- [Chaari 12] Imen Chaari, Anis Koubaa, Hachemi Bennaceur, Sahar Trigui & Khaled Al-Shalfan. *smartPATH: A Hybrid ACO-GA Algorithm for Robot Path Planning*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 206–213, Brisbane, Australia, 10-15 June 2012.
- [Chakraborty 12] Uday Chakraborty, Sajal Das & Travis Abbott. *Energy-Efficient Routing in Hierarchical Wireless Sensor Networks Using Differential-Evolution-Based Memetic Algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3427–3434, Brisbane, Australia, 10-15 June 2012.
- [Chan 12] Kit Yan Chan, Sai Ho Ling, Hung Nguyen & Frank Jiang. *A hypoglycemic episode diagnosis system based on neural networks for Type 1 diabetes mellitus*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 942–947, Brisbane, Australia, 10-15 June 2012.
- [Chang 12] Kee Tong Chang, Kim On Chin, Jason Teo & James Mountstephens. *Game AI Generation using Evolutionary Multi-Objective Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 948–955, Brisbane, Australia, 10-15 June 2012.
- [Chen 12a] Angela Hsiang-Ling Chen, Yun-Chia Liang & Chia-Chien Liu. *An Artificial Bee Colony Algorithm for the Cardinality-Constrained Portfolio Optimization Problems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2936–2943, Brisbane, Australia, 10-15 June 2012.
- [Chen 12b] Jui-Le Chen, Chun-Wei Tsai & Chu-Sing Yang. *An Improved LGA for Protein-Ligand Docking Prediction*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 302–307, Brisbane, Australia, 10-15 June 2012.
- [Chen 12c] Ming-Liang Chen & Feng-Sheng Wang. *Fuzzy optimization for a batch simultaneous saccharification and co-fermentation process by hybrid differential evolution*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2890–2897, Brisbane, Australia, 10-15 June 2012.
- [Chen 12d] Shu-Heng Chen & Umberto Gostoli. *Coordination in the El Farol Bar Problem: The Role of Social Preferences and Social Networks*. In Xiaodong

- Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1152–1159, Brisbane, Australia, 10-15 June 2012.
- [Chen 12e] Stephen Chen. *Particle Swarm Optimization with pbest Crossover*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 540–545, Brisbane, Australia, 10-15 June 2012.
- [Chen 12f] Stephen Chen, Carlos Xudiera & James Montgomery. *Simulated Annealing with Threshold Convergence*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2537–2543, Brisbane, Australia, 10-15 June 2012.
- [Cheng 12a] Ran Cheng, Min Yao, Xiaowei Xue & Bin Shen. *Bisexual Evolution: A Novel Bisexual Evolutionary Framework Based on the Fisher’s Runaway Process*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1952–1959, Brisbane, Australia, 10-15 June 2012.
- [Cheng 12b] Shi Cheng, Yuhui Shi & Quande Qin. *Dynamical Exploitation Space Reduction in Particle Swarm Optimization for Solving Large Scale Problems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3023–3030, Brisbane, Australia, 10-15 June 2012.
- [Cheng 12c] Shi Cheng, Yuhui Shi & Quande Qin. *Particle Swarm Optimization based Semi-Supervised Learning on Chinese Text Categorization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3176–3183, Brisbane, Australia, 10-15 June 2012.
- [Cheng 12d] Shi Cheng, Yuhui Shi & Quande Qin. *Population Diversity Based Study on Search Information Propagation in Particle Swarm Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 562–569, Brisbane, Australia, 10-15 June 2012.
- [Cheung 12] Catherine Cheung, Julio J. Valdes & Matthew Li. *Use of evolutionary computation techniques for exploration and prediction of helicopter loads*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1130–1137, Brisbane, Australia, 10-15 June 2012.
- [Chikumbo 12] Oliver Chikumbo, Erik Goodman & Kalyanmoy Deb. *Approximating a multi-dimensional Pareto front for a land use management problem: A modified MOEA with an epigenetic silencing metaphor*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1529–1537, Brisbane, Australia, 10-15 June 2012.
- [Chiong 12] Raymond Chiong & Michael Kirley. *The Evolution of Cooperation via Stigmergic Interactions*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2017–2024, Brisbane, Australia, 10-15 June 2012.
- [Chira 12] Camelia Chira, Anca Gog & David Iclanzan. *Evolutionary Detection of Community Structures in Complex Networks: a New Fitness Function*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2365–2372, Brisbane, Australia, 10-15 June 2012.

- [Ch'ng 12] Siong Huat Ch'ng & Jason Teo. *Online Evolution of Offensive Strategies in Real-Time Strategy Gaming*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 100–107, Brisbane, Australia, 10-15 June 2012.
- [Chow 12] Chi Kin Chow & Shiu Yin Yuen. *Continuous Non-revisiting Genetic Algorithm with Overlapped Search Sub-Region*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2975–2982, Brisbane, Australia, 10-15 June 2012.
- [Chowdhury 12] Ahsan Chowdhury, Madhu Chetty & Nguyen Vinh. *Adaptive Regulatory Genes Cardinality for Reconstructing Genetic Networks*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1285–1292, Brisbane, Australia, 10-15 June 2012.
- [Ciesielski 12] Vic Ciesielski, Brian Lam & Minh Luan Nguyen. *Comparison of Evolutionary and Conventional Feature Extraction Methods for Malt Classification*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1349–1355, Brisbane, Australia, 10-15 June 2012.
- [Coelho 12] Dayanne G Coelho, Elizabeth F Wanner, Sergio R Souza, Eduardo G Carrano & Robin C Purshouse. *A Multiobjective Evolutionary Algorithm for the 2D Guillotine Strip Packing Problem*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2009–2016, Brisbane, Australia, 10-15 June 2012.
- [Conesa-Munoz 12] Jesus Conesa-Munoz, Angela Ribeiro, Dionisio Andujar, Cesar Fernandez-Quintanilla & Jose Dorado. *Multi-Path Planning Based on a NSGA-II for a Fleet of Robots to Work on Agricultural Tasks*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 648–655, Brisbane, Australia, 10-15 June 2012.
- [Conti 12] Cassio Rodrigo Conti, Mauro Roisenberg & Guenther Schwedersky Neto. *ACOR-V - an Algorithm that Incorporates the Visibility Heuristic to the ACO in Continuous Domain*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2952–2959, Brisbane, Australia, 10-15 June 2012.
- [Couckuyt 12] Ivo Couckuyt, Dirk Deschrijver & Tom Dhaene. *Towards Efficient Multiobjective Optimization: Multiobjective Statistical Criteria*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2485–2492, Brisbane, Australia, 10-15 June 2012.
- [Cussat-Blanc 12] Sylvain Cussat-Blanc, Stephane Sanchez & Yves Duthen. *Simultaneous cooperative and conflicting behaviors handled by a Gene Regulatory Network*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1037–1044, Brisbane, Australia, 10-15 June 2012.
- [Dahlstedt 12] Palle Dahlstedt. *Turn-Based Evolution as a Proposed Implementation of Artistic Creative Process*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2637–2643, Brisbane, Australia, 10-15 June 2012.
- [Daniels 12] Benjamin Daniels, Steven Corns & Elizabeth Cudney. *A Comparison of Representations for the Prediction of Ground-Level Ozone Concentration*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2694–2701, Brisbane, Australia, 10-15 June 2012.

- [Dao 12] Ngoc Phong Dao, Quang Uy Nguyen, Xuan Hoai Nguyen & R I (Bob) McKay. *Evolving Approximations for the Gaussian Q-function by Genetic Programming with Semantic Based Crossover*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2515–2520, Brisbane, Australia, 10-15 June 2012.
- [Datta 12a] Rituparna Datta, Michael S. Bittermann, Kalyanmoy Deb & Ozer Ciftcioglu. *Probabilistic Constraint Handling in the Framework of Joint Evolutionary-Classical Optimization with Engineering Applications*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 757–764, Brisbane, Australia, 10-15 June 2012.
- [Datta 12b] Rituparna Datta & Kalyanmoy Deb. *An Adaptive Normalization based Constrained Handling Methodology with Hybrid Bi-Objective and Penalty Function Approach*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3137–3144, Brisbane, Australia, 10-15 June 2012.
- [de Armas 12] Jesica de Armas, Yanira Gonzalez, Gara Miranda & Coromoto Leon. *Parallelization of the Multi-Objective Container Loading Problem*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 37–44, Brisbane, Australia, 10-15 June 2012.
- [De Weerd 12] Jochen De Weerd, Seppe vanden Broucke, Jan Vanthienen & Bart Baesens. *Leveraging Process Discovery with Trace Clustering and Text Mining for Intelligent Analysis of Incident Management Processes*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1921–1928, Brisbane, Australia, 10-15 June 2012.
- [Deb 12] Kalyanmoy Deb & Himanshu Jain. *Handling Many-Objective Problems Using an Improved NSGA-II Procedure*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 342–349, Brisbane, Australia, 10-15 June 2012.
- [Deep 12a] Kusum Deep, Pinkey Chauhan & Millie Pant. *Multi Task Selection including Part Mix, Tool Allocation and Process Plans in CNC Machining Centers using New Binary PSO*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1823–1830, Brisbane, Australia, 10-15 June 2012.
- [Deep 12b] Kusum Deep, Pinkey Chauhan & Millie Pant. *Totally Disturbed Chaotic Particle Swarm Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1577–1584, Brisbane, Australia, 10-15 June 2012.
- [Dias 12] Douglas Dias & Marco Aurelio Pacheco. *Describing Quantum-Inspired Linear Genetic Programming from Symbolic Regression Problems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 907–914, Brisbane, Australia, 10-15 June 2012.
- [Dick 12] Grant Dick. *Niche Allocation in Spatially-Structured Evolutionary Algorithms with Gradients*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2210–2217, Brisbane, Australia, 10-15 June 2012.
- [Dorrnsoro 12] Bernabe Dorrnsoro & Pascal Bouvry. *Study of Different Small-world Topology Generation Mechanisms for Genetic Algorithms*. In Xiaodong

- Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2226–2233, Brisbane, Australia, 10-15 June 2012.
- [Dower 12] Steve Dower. *Automatic Implementation of Evolutionary Algorithms on GPUs using ESDL*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3411–3418, Brisbane, Australia, 10-15 June 2012.
- [Dridi 12] Olfa Dridi, Saoussen Krichen & Adel Guitouni. *A Multi-Objective Optimization Approach for Resource Assignment and Task Scheduling Problem: Application to Maritime Domain Awareness*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 469–476, Brisbane, Australia, 10-15 June 2012.
- [Duhain 12] Julien Duhain & Andries Engelbrecht. *Towards a More Complete Classification System for Dynamically Changing Environments*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2742–2749, Brisbane, Australia, 10-15 June 2012.
- [Duma 12] Mlungisi Duma, Bhakisipho Twala, Tshilidzi Marwala & Fulufhelo Nelwamondo. *Classification with Missing Data using Multi-Layered Artificial Immune Systems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1687–1694, Brisbane, Australia, 10-15 June 2012.
- [El-Abd 12a] Mohammed El-Abd. *Generalized Opposition-Based Artificial Bee Colony Algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3052–3055, Brisbane, Australia, 10-15 June 2012.
- [El-Abd 12b] Mohammed El-Abd & Mohamed Kamel. *Particle Swarm Optimization with Adaptive Bounds*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 169–174, Brisbane, Australia, 10-15 June 2012.
- [El-Bouri 12] Ahmed El-Bouri. *An Investigation of Initial Solutions on the Performance of an Iterated Local Search Algorithm for the Permutation Flowshop*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2258–2262, Brisbane, Australia, 10-15 June 2012.
- [Elsayed 12a] Saber Elsayed, Ruhul Sarker & Daryl Essam. *Memetic Multi-Topology Particle Swarm Optimizer for Constrained Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1379–1386, Brisbane, Australia, 10-15 June 2012.
- [Elsayed 12b] Saber Elsayed, Ruhul Sarker & Tapabrata Ray. *Parameters Adaptation in Differential Evolution*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1138–1145, Brisbane, Australia, 10-15 June 2012.
- [Engelbrecht 12] Andries Engelbrecht. *Particle Swarm Optimization: Velocity Initialization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1410–1417, Brisbane, Australia, 10-15 June 2012.
- [Epitropakis 12a] Michael Epitropakis, Vassilis Plagianakos & Michael Vrahatis. *Multimodal Optimization Using Niching Differential Evolution with Index-based Neighborhoods*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2065–2072, Brisbane, Australia, 10-15 June 2012.

- [Epitropakis 12b] Michael Epitropakis, Dimitris Tasoulis, Nicos Pavlidis, Vassilis Plagianakos & Michael Vrahatis. *Tracking Particle Swarm Optimizers: An adaptive approach through multinomial distribution tracking with exponential forgetting*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1712–1719, Brisbane, Australia, 10-15 June 2012.
- [Ernst 12] Andreas Ernst & Gaurav Singh. *Lagrangian Particle Swarm Optimization for a Resource Constrained Machine Scheduling Problem*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1585–1592, Brisbane, Australia, 10-15 June 2012.
- [Esteves 12] Vasco M.C. Esteves, Joao M.C. Sousa, Carlos A. Silva, Ana P. B. Povoia & Maria Isabel Gomes. *SCant-Design: Closed Loop Supply Chain Design using Ant Colony Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3056–3063, Brisbane, Australia, 10-15 June 2012.
- [Faccioli 12] Rodrigo Faccioli, Ivan Nunes da Silva, Leandro Bortot & Alexandre Delbem. *A Mono-Objective Evolutionary Algorithm with GROMACS for Protein Structure Prediction in Structural and Energetic Contexts*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 900–906, Brisbane, Australia, 10-15 June 2012.
- [Fajfar 12] Iztok Fajfar. *Selection Strategies and Random Perturbations in Differential Evolution*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1836–1842, Brisbane, Australia, 10-15 June 2012.
- [Falcon 12] Rafael Falcon & Rami Abielmona. *A Response-Aware Risk Management Framework for Search-and-Rescue Operations*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1333–1340, Brisbane, Australia, 10-15 June 2012.
- [Fang 12a] Wei Fang, Jun Sun, Xiaojun Wu, Wenbo Xu & Palade Vasile. *Study on the Compression-Expansion Coefficient in Drift Particle Swarm Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 857–862, Brisbane, Australia, 10-15 June 2012.
- [Fang 12b] Xing Fang, Nicholas Koceja, Justin Zhan, Gerry Dozier & Dasgupta Dipankar. *An Artificial Immune System for Phishing Detection*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 392–398, Brisbane, Australia, 10-15 June 2012.
- [Feng 12a] Liang Feng, Yew Soon Ong, Ivor Tsang & Ah Hwee Tan. *An Evolutionary Search Paradigm that Learns with Past Experiences*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2813–2820, Brisbane, Australia, 10-15 June 2012.
- [Feng 12b] Xie Feng & Andy Song. *Evolving Frame Splitters by Genetic Programming*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1466–1472, Brisbane, Australia, 10-15 June 2012.
- [Ficici 12] Sevan G. Ficici, Enoch Liu & Gary B. Fogel. *Evolutionary Algorithms for Supertree Search*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1293–1300, Brisbane, Australia, 10-15 June 2012.

- [Filipic 12] Bogdan Filipic & Ivan Lorencin. *Evolutionary Multiobjective Design of an Alternative Energy Supply System*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 257–262, Brisbane, Australia, 10–15 June 2012.
- [Fister 12] Iztok Fister, Iztok Fister, Jr., Janez Brest & Viljem Zumer. *Memetic Artificial Bee Colony Algorithm for Large-Scale Global Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3015–3022, Brisbane, Australia, 10–15 June 2012.
- [Fonseca 12] Leonardo Fonseca, Helio Barbosa & Afonso Lemonge. *A study on fitness inheritance for enhanced efficiency in real-coded genetic algorithms*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 71–78, Brisbane, Australia, 10–15 June 2012.
- [Forghany 12] Zary Forghany, Mohsen Davarynejad & Ewa Snaar-Jagalska. *Gene Regulatory Network Model Identification Using Artificial Bee Colony and Swarm Intelligence*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1272–1277, Brisbane, Australia, 10–15 June 2012.
- [Fu 12a] Haobo Fu, Bernhard Sendhoff, Ke Tang & Xin Yao. *Characterizing Environmental Changes in Robust Optimization Over Time*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1593–1600, Brisbane, Australia, 10–15 June 2012.
- [Fu 12b] Wenlong Fu, Mark Johnston & Mengjie Zhang. *Genetic Programming for Edge Detection via Balancing Individual Training Images*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2702–2709, Brisbane, Australia, 10–15 June 2012.
- [Fu 12c] Wenlong Fu, Mark Johnston & Mengjie Zhang. *Soft Edge Maps From Edge Detectors Evolved by Genetic Programming*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1356–1363, Brisbane, Australia, 10–15 June 2012.
- [Gagne 12a] Caroline Gagne & Arnaud Zinflou. *An hybrid algorithm for the industrial car sequencing problem*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 279–286, Brisbane, Australia, 10–15 June 2012.
- [Gagne 12b] David J. Gagne & Clare Bates Congdon. *Preliminary Results for GAMMI: Genetic Algorithms for Motif-Module Inference*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1309–1316, Brisbane, Australia, 10–15 June 2012.
- [Gao 12] Kaizhou Gao, Ponnuthurai Nagaratnam Suganthan & Zhenqiang Bao. *A composite heuristic for the no-wait flow shop scheduling*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1125–1129, Brisbane, Australia, 10–15 June 2012.
- [Ghosh 12a] Arnab Ghosh, Arkabandhu Chowdhury, Subhajit Sinha, Athanasios V. Vasilakos & Swagatam Das. *A Genetic lbest PSO with Dynamically Varying Subswarm topology*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 669–675, Brisbane, Australia, 10–15 June 2012.

- [Ghosh 12b] Avishek Ghosh, Arnab Ghosh, Arkabandhu Chowdhury, Amit Konar, Eunjin Kim & Atulya K. Nagar. *Linear Phase Low Pass FIR Filter Design Using Genetic Particle Swarm Optimization with Dynamically Varying Neighborhood Technique*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1570–1576, Brisbane, Australia, 10-15 June 2012.
- [Goh 12] Jonathan Goh, Lilian Tang, Tunde Peto & George Saleh. *An Evolutionary Approach for Determining Hidden Markov Model for Medical Image Analysis*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3511–3518, Brisbane, Australia, 10-15 June 2012.
- [Gong 12a] Dunwei Gong, Lei Yang, Xiaoyan Sun & Ming Li. *Applying knowledge of users with similar preference to construct surrogate models of IGAs*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3168–3175, Brisbane, Australia, 10-15 June 2012.
- [Gong 12b] Maoguo Gong, Qing Cai, Yangyang Li & Jingjing Ma. *An Improved Memetic Algorithm for Community Detection in Complex Networks*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3347–3354, Brisbane, Australia, 10-15 June 2012.
- [Gong 12c] Tao Gong & Lan Shuai. *A Cross-Model Study on the Effect of Power-Laws on Language Evolution*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3286–3293, Brisbane, Australia, 10-15 June 2012.
- [Greenwood 12] Garrison Greenwood & Daniel Ashlock. *Evolutionary Games and the Study of Cooperation: Why Has So Little Progress Been Made?* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1207–1214, Brisbane, Australia, 10-15 June 2012.
- [Grobler 12] Jacomine Grobler, Andries P. Engelbrecht, Graham Kendall & Sarma Yadavalli. *Investigating the Use of Local Search for Improving Meta-Hyper-Heuristic Performance*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3324–3331, Brisbane, Australia, 10-15 June 2012.
- [Gruenewald 12] Armin Gruenewald, Simon Hardt, Matthias Mielke & Rainer Brueck. *A decentralized Charge Management for Electric Vehicles using a Genetic Algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3519–3525, Brisbane, Australia, 10-15 June 2012.
- [guan Wang 12] Wen guan Wang, Ying biao Ling, Jun Zhang & Yu ping Wang. *Ant Colony Optimization Algorithm for Analog Filter Design*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3072–3077, Brisbane, Australia, 10-15 June 2012.
- [Guderian 12a] Falko Guderian, Rainer Schaffer & Gerhard Fettweis. *Administration- and Communication-Aware IP Core Mapping in Scalable Multiprocessor System-on-Chips via Evolutionary Computing*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1434–1441, Brisbane, Australia, 10-15 June 2012.
- [Guderian 12b] Falko Guderian, Rainer Schaffer & Gerhard Fettweis. *Dimensioning the Heterogeneous Multicenter Architecture via Parallelism Analysis and*

- Evolutionary Computing*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1426–1433, Brisbane, Australia, 10-15 June 2012.
- [Gunnarsen 12] Sverre Gunnarsen, Kate Smith-Miles & Vincent Lee. *Towards Objective Data Selection in Bankruptcy Prediction*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 9–16, Brisbane, Australia, 10-15 June 2012.
- [Guo 12] Yu Guo, Wei neng Chen & Jun Zhang. *Enhancing the Performance of Evolutionary Algorithms—A Novel Maturity-Based Adaptation Strategy*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 570–577, Brisbane, Australia, 10-15 June 2012.
- [Hadka 12] David Hadka, Patrick Reed & Timothy Simpson. *Diagnostic Assessment of the Borg MOEA for Many-Objective Product Family Design Problems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1975–1984, Brisbane, Australia, 10-15 June 2012.
- [Hamza 12] Noha Hamza, Ruhul Sarker & Daryl Essam. *Differential Evolution with a mix of Constraint Consensus Methods for Solving a Real-World Optimization Problem*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1118–1124, Brisbane, Australia, 10-15 June 2012.
- [Hanada 12] Yoshiko Hanada, Nagahiro Hosokawa, Keiko Ono & Mitsuji Muneyasu. *Effectiveness of Multi-step Crossover Fusions in Genetic Programming*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2389–2396, Brisbane, Australia, 10-15 June 2012.
- [Hancer 12] Emrah Hancer, Celal Ozturk & Dervis Karaboga. *Artificial Bee Colony Based Image Clustering*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2926–2930, Brisbane, Australia, 10-15 June 2012.
- [Handa 12] Hisashi Handa. *Use of Graph Kernels in Estimation of Distribution Algorithms*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3563–3568, Brisbane, Australia, 10-15 June 2012.
- [Hanif 12] Ayub Hanif & Robert Smith. *Generation Path-Switching in Sequential Monte-Carlo Methods*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1045–1051, Brisbane, Australia, 10-15 June 2012.
- [Hardhienata 12] Medria Hardhienata, Kathryn Merrick & Valeri Ugrinovskii. *Task Allocation in Multi-Agent Systems using Models of Motivation and Leadership*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1418–1425, Brisbane, Australia, 10-15 June 2012.
- [Haynes 12] David Haynes, Steven Corns & Ganesh Venayagamoorthy. *An Exponential Moving Average Algorithm: Evolutionary Algorithms Applied to Sudoku Puzzles*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3214–3221, Brisbane, Australia, 10-15 June 2012.

- [He 12] Zhenan He & Gary Yen. *A New Fitness Evaluation Method Based on Fuzzy Logic in Multiobjective Evolutionary Algorithms*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 439–446, Brisbane, Australia, 10-15 June 2012.
- [Helbig 12] Marde Helbig & Andries Engelbrecht. *Analyses of Guide Update Approaches for Vector Evaluated Particle Swarm Optimisation on Dynamic Multi-Objective Optimisation Problems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2726–2733, Brisbane, Australia, 10-15 June 2012.
- [Hendtlass 12] Tim Hendtlass. *Restarting Particle Swarm Optimisation*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1720–1728, Brisbane, Australia, 10-15 June 2012.
- [Herbawi 12a] Wesam Herbawi & Michael Weber. *A Genetic Local Search Algorithm for Multiobjective Time-dependent Route Planning*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 137–143, Brisbane, Australia, 10-15 June 2012.
- [Herbawi 12b] Wesam Herbawi & Michael Weber. *The ridematching problem with time windows in dynamic ridesharing: A model and a genetic algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3547–3554, Brisbane, Australia, 10-15 June 2012.
- [Higgs 12] Trent Higgs, Bela Stantic, Tamjidul Hoque & Abdul Sattar. *Refining Genetic Algorithm Twin Removal for High-Resolution Protein Structure Prediction*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 182–189, Brisbane, Australia, 10-15 June 2012.
- [Hingston 12] Philip Hingston, Martin Masek & Daniel Beard. *Using Monte Carlo Tree Search for Replanning in a Multistage Simultaneous Game*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1231–1238, Brisbane, Australia, 10-15 June 2012.
- [Hong 12] Tzung-Pei Hong, Feng-Shih Lin & Chun-Hao Chen. *Using the Group Genetic Algorithm for Attribute Clustering*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 923–927, Brisbane, Australia, 10-15 June 2012.
- [Hsiao 12a] Ping-Che Hsiao, Tsung-Che Chiang & Li-Chen Fu. *Particle Swarm Optimization for the Minimum Energy Broadcast Problem in Wireless Ad-Hoc Networks*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3100–3107, Brisbane, Australia, 10-15 June 2012.
- [Hsiao 12b] Ping-Che Hsiao, Tsung-Che Chiang & Li-Chen Fu. *A VNS-based Hyper-heuristic with Adaptive Computational Budget of Local Search*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3316–3323, Brisbane, Australia, 10-15 June 2012.
- [Hsu 12] Wei-Huai Hsu & Tsung-Che Chiang. *A Multiobjective Evolutionary Algorithm with Enhanced Reproduction Operators for the Vehicle Routing Problem with Time Windows*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2750–2757, Brisbane, Australia, 10-15 June 2012.

- [Huang 12a] Deqing Huang, Jian-Xin Xu, Xin Deng, Venkatakrisnan Venkataramanan & Huynh The Cat Tuong. *GA Based High-Order Peak Filter Design With Application to Compensation of Contact-Induced Vibration in HDD Servo Systems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3435–3442, Brisbane, Australia, 10-15 June 2012.
- [Huang 12b] Hsueh En Huang, Yew-Soon Ong & Xianshun Chen. *Autonomous Flock Brush for Non-Photorealistic Rendering*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2597–2604, Brisbane, Australia, 10-15 June 2012.
- [hui Zhan 12] Zhi hui Zhan, Jun Zhang, Yu hui Shi & Liu Hai-lin. *A Modified Brain Storm Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2544–2551, Brisbane, Australia, 10-15 June 2012.
- [Hui 12] Sheldon Hui & Ponnuthurai Nagaratnam Suganthan. *Ensemble Differential Evolution with Dynamic Subpopulations and Adaptive Clearing for solving Dynamic Optimization Problems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2629–2636, Brisbane, Australia, 10-15 June 2012.
- [Hunt 12] Rachel Hunt, Kourosh Neshatian & Mengjie Zhang. *Scalability Analysis of Genetic Programming Classifiers*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 509–516, Brisbane, Australia, 10-15 June 2012.
- [Huo 12a] Chih-Li Huo, Yean-Shain Lien, Yu-Hsiang Yu & Tsung-Ying Sun. *Effectively Multi-Swarm Sharing Management for Differential Evolution*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2798–2805, Brisbane, Australia, 10-15 June 2012.
- [Huo 12b] Chih-Li Huo, Shu-Yan Lin, Tzu-Ying Lai, Yean-Shain Lien & Tsung-Ying Sun. *Multi-Objective Differential Evolution with Taguchi-based Adjustable Proportional Distribution*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2194–2201, Brisbane, Australia, 10-15 June 2012.
- [Hussein 12] Mazen Hussein & Matthew Petering. *Genetic Algorithm-Based Simulation Optimization of Stacking Algorithms for Yard Cranes to Reduce Fuel Consumption at Seaport Container Transshipment Terminals*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1993–2000, Brisbane, Australia, 10-15 June 2012.
- [Iclanzan 12] David Iclanzan & Camelia Chira. *Modeling and Replicating Higher-Order Dependencies in Genetic Algorithms*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 863–870, Brisbane, Australia, 10-15 June 2012.
- [Ishibuchi 12a] Hisao Ishibuchi, Koichiro Hoshino & Yusuke Nojima. *Evolution of Strategies in a Spatial IPD Game with a Number of Different Representation Schemes*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1215–1222, Brisbane, Australia, 10-15 June 2012.
- [Ishibuchi 12b] Hisao Ishibuchi, Koichiro Hoshino & Yusuke Nojima. *Strategy Evolution in a Spatial IPD Game where Each Agent is not Allowed to Play against Itself*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on

Evolutionary Computation, pages 1191–1198, Brisbane, Australia, 10-15 June 2012.

- [Izadinia 12] Hamid Izadinia & Mohammad Mehdi Ebadzadeh. *Adaptive Quantum-Inspired Evolution Strategy*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1760–1767, Brisbane, Australia, 10-15 June 2012.
- [Jaros 12] Jiri Jaros. *Multi-GPU Island-Based Genetic Algorithm for Solving the Knapsack Problem*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 236–243, Brisbane, Australia, 10-15 June 2012.
- [Jati 12] Arindam Jati, Garima Singh, Pratyusha Rakshit, Amit Konar, Eunjin Kim & Atulya K. Nagar. *A Hybridisation of Improved Harmony Search and Bacterial Foraging for Multi-robot Motion Planning*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 431–438, Brisbane, Australia, 10-15 June 2012.
- [Jevne 12] Haken Jevne, Pauline Haddow & Alexei Gaivoronski. *Evolving Constrained mean-VaR Efficient Frontiers*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1079–1086, Brisbane, Australia, 10-15 June 2012.
- [Ji 12] Zhen Ji, Tao Tian, Zexuan Zhu & Shan He. *A Memory Binary Particle Swarm Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1831–1835, Brisbane, Australia, 10-15 June 2012.
- [Jianchao 12] Fan Jianchao & Han Min. *Nonlinear Model Predictive Control of Ball-Plate System based on Gaussian Particle Swarm Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3116–3121, Brisbane, Australia, 10-15 June 2012.
- [Jiang 12] Yunzhi Jiang, Pohsiang Tsai, Zhifeng Hao & Longbing Cao. *A Novel Auto-Parameters Selection Process For Image Segmentation*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2666–2672, Brisbane, Australia, 10-15 June 2012.
- [jiao Gong 12] Yue jiao Gong & Jun Zhang. *Real-Time Traffic Signal Control for Roundabouts by Using a Novel PSO-based Fuzzy Controller*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 771–778, Brisbane, Australia, 10-15 June 2012.
- [Jin 12] Qin Jin & Zhenjun Liang. *A Naive Particle Swarm Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 29–36, Brisbane, Australia, 10-15 June 2012.
- [Johnson 12] Colin Johnson. *Search-based Evolutionary Operators for Extensionally-defined Search Spaces: Applications to Image Search*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2279–2285, Brisbane, Australia, 10-15 June 2012.
- [Jones 12] Gareth Jones, Chris Lovell, Steve Gunn, Hywel Morgan & Klaus-Peter Zauner. *Enabling the Discovery of Computational Characteristics of Enzyme Dynamics*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2452–2459, Brisbane, Australia, 10-15 June 2012.

- [Jordan 12] Claire Diora Jordan & Trent Kroeger. *An Evolutionary Algorithm for Bilevel Optimisation of Men's Team Pursuit Track Cycling*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2325–2332, Brisbane, Australia, 10-15 June 2012.
- [Juan 12] Xu Juan, Chen Han-wu, Liu Zhihao, Ruan Yue & Zhu Wanning. *Quantum secret sharing without exclusive OR of qubits' measuring results*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1675–1678, Brisbane, Australia, 10-15 June 2012.
- [Junior 12] Olacir Castro Junior, Andre Britto & Aurora Pozo. *A Comparison of Methods for Leader Selection in Many-Objective Problems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1654–1661, Brisbane, Australia, 10-15 June 2012.
- [Kafafy 12] Ahmed Kafafy, Ahmed Bounekkar & Stephane Bonnevay. *Hybrid Metaheuristics based on MOEA/D for 0/1 Multiobjective Knapsack Problems: A comparative study*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3300–3307, Brisbane, Australia, 10-15 June 2012.
- [Kampouridis 12] Michael Kampouridis, Tim Glover, Ali Rais Shaghghi & Edward Tsang. *Using a Genetic Algorithm as a Decision Support Tool for the Deployment of Fiber Optic Networks*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3585–3592, Brisbane, Australia, 10-15 June 2012.
- [Karabulut 12] Korhan Karabulut & M. Fatih Tasgetiren. *A Discrete Artificial Bee Colony Algorithm for the Traveling Salesman Problem with Time Windows*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3038–3044, Brisbane, Australia, 10-15 June 2012.
- [Kattan 12] Ahmed Kattan & Edgar Galvan. *Evolving Radial Basis Function Networks via GP for Estimating Fitness Values using Surrogate Models*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3161–3167, Brisbane, Australia, 10-15 June 2012.
- [Kelly 12] Stephen Kelly, Peter Lichodziejewski & Malcolm I. Heywood. *On Run Time Libraries and Hierarchical Symbiosis*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3278–3285, Brisbane, Australia, 10-15 June 2012.
- [Khadem 12] Saghar Khadem, Kit Yan Chan & Tharam Dillon. *Optimization of neural network configurations for short-term traffic flow forecasting using orthogonal design*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1184–1190, Brisbane, Australia, 10-15 June 2012.
- [Kim 12] Kangil Kim, Bob (R.I) McKay & Nguyen Xuan Hoai. *Implicit Bias in Grammar-based Estimation of Distribution Genetic Programming: The Effects of Recursive Structure*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2373–2380, Brisbane, Australia, 10-15 June 2012.
- [Knittel 12] Anthony Knittel. *Learning Feature Hierarchies under Reinforcement*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2420–2427, Brisbane, Australia, 10-15 June 2012.

- [Ko 12] Gene M. Ko, A. Srinivas Reddy, Sunil Kumar, Rajni Garg, Barbara A. Bailey & Ahmad R. Hadaegh. *Differential Evolution-Binary Particle Swarm Optimization Algorithm for the Analysis of Aryl Beta-Diketo Acids for HIV-1 Integrase Inhibition*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1278–1284, Brisbane, Australia, 10-15 June 2012.
- [Koloseni 12] David Koloseni, Jouni Lampinen & Pasi Luukka. *Differential Evolution Classifier with Optimized Distance Measures from a Pool of Distances*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2806–2812, Brisbane, Australia, 10-15 June 2012.
- [Korosec 12] Peter Korosec & Jurij Silc. *The Continuous Differential Ant-Stigmergy Algorithm Applied to Dynamic Optimization Problems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 447–454, Brisbane, Australia, 10-15 June 2012.
- [Kou 12] Jialiang Kou, Shengwu Xiong, Zhixiang Fang, Xinlu Zong & Feifei Bian. *Positive Point Charge Potential Field based ACO algorithm for Multi-objective Evacuation Routing Optimization Problem*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3064–3071, Brisbane, Australia, 10-15 June 2012.
- [Kovarik 12] Oleg Kovarik & Pavel Kordik. *Max-Min Ant System with Linear Memory Complexity*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 322–326, Brisbane, Australia, 10-15 June 2012.
- [Kroetz 12] Marcel Kroetz, Tania Centeno, Myriam Delgado, Leyza Dorini, Vitor Fylyk, Allan Vieira, Luis Lucas & Marcelo Felisberto. *Genetic Algorithms to Automatic Weld Bead Detection in Double Wall Double Image Digital Radiographs*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 578–584, Brisbane, Australia, 10-15 June 2012.
- [Kromer 12] Pavel Kromer, Vaclav Snasel, Jan Platos, Milos Kudelka & Zdenek Horak. *An ACO Inspired Weighting Approach for the Spectral Partitioning of Co-authorship Networks*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3659–3665, Brisbane, Australia, 10-15 June 2012.
- [Kudo 12] Fumiya Kudo & Tomohiro Yoshikawa. *Knowledge Extraction in Multi-objective Optimization Problem based on Visualization of Pareto Solutions*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1871–1876, Brisbane, Australia, 10-15 June 2012.
- [Kumar 12] Pravesh Kumar & Millie Pant. *Enhanced Mutation Strategy for Differential Evolution*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2884–2889, Brisbane, Australia, 10-15 June 2012.
- [Lacroix 12] Benjamin Lacroix, Daniel Molina & Francisco Herrera. *Region based memetic algorithm with LS chaining*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 386–391, Brisbane, Australia, 10-15 June 2012.
- [Lakshika 12] Erandi Lakshika, Michael Barlow & Adam Easton. *Fidelity and Complexity of Standing Group Conversation Simulations: A Framework for the*

- Evolution of Multi Agent Systems through Bootstrapping Human Aesthetic Judgments.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2033–2040, Brisbane, Australia, 10-15 June 2012.
- [Lam 12] Albert Y.S. Lam, Victor O.K. Li & Zhao Wei. *Chemical Reaction Optimization for the Fuzzy Rule Learning Problem.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3084–3091, Brisbane, Australia, 10-15 June 2012.
- [LaTorre 12] Antonio LaTorre, Santiago Muelas & Jose-Maria Pena. *Multiple Offspring Sampling in Large Scale Global Optimization.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 964–971, Brisbane, Australia, 10-15 June 2012.
- [Lattarulo 12] Valerio Lattarulo & Geoffrey T. Parks. *A Preliminary Study of a new Multi-objective Optimization Algorithm.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1793–1800, Brisbane, Australia, 10-15 June 2012.
- [Le 12] Minh Nghia Le, Yew Soon Ong, Stefan Menzel, Chun-Wei Seah & Bernhard Sendhoff. *Multi Co-objective Evolutionary Optimization: Cross Surrogate Augmentation for Computationally Expensive Problems.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2911–2918, Brisbane, Australia, 10-15 June 2012.
- [Lee 12a] Dongseop Lee, Luis Felipe Gonzalez, Periaux Jacques & Gabriel Bugada. *Multi-Objective Design Optimization of Morphing UAV Aerofoil/Wing Using Hybridised MOGA.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1743–1750, Brisbane, Australia, 10-15 June 2012.
- [Lee 12b] Lae-Kyoung Lee, Su-Yong An & Se-Young Oh. *Robust Fingertip Extraction with Improved Skin Color Segmentation for Finger Gesture Recognition in Human-Robot Interaction.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 45–51, Brisbane, Australia, 10-15 June 2012.
- [Lee 12c] Myeong-Chun Lee & Sung-Bae Cho. *Interactive Differential Evolution for Image Enhancement Application in Smart Phone.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 887–892, Brisbane, Australia, 10-15 June 2012.
- [Legillon 12] Francois Legillon, Arnaud Liefoghe & El-Ghazali Talbi. *CoBRA: A Cooperative Coevolutionary Algorithm for Bi-level Optimization.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 735–742, Brisbane, Australia, 10-15 June 2012.
- [Lehmann 12] Henry Lehmann & Stefan Menzel. *Evolvability as Concept for the Optimal Design of Free-Form Deformation Control Volumes.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 517–524, Brisbane, Australia, 10-15 June 2012.
- [Leitao 12] Antonio Leitao, Francisco B. Pereira & Penousal Machado. *Enhancing Cluster Geometry Optimization with Island Models.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2218–2225, Brisbane, Australia, 10-15 June 2012.

- [Lemonge 12] Afonso Lemonge, Helio Barbosa & Heder Bernardino. *A Family of Adaptive Penalty Schemes for Steady-state Genetic Algorithms*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1554–1561, Brisbane, Australia, 10-15 June 2012.
- [Lepagnot 12] Julien Lepagnot, Amir Nakib, Hamouche Oulhadj & Patrick Siarry. *A Dynamic Multi-Agent Algorithm Applied to Challenging Benchmark Problems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2621–2628, Brisbane, Australia, 10-15 June 2012.
- [Leung 12] Shing Wa Leung, Xin Zhang & Shiu Yin Yuen. *Multiobjective Differential Evolution Algorithm with Opposition-Based Parameter Control*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 849–856, Brisbane, Australia, 10-15 June 2012.
- [Li 12a] Bing Li, Xianneng Li, Shingo Mabu & Kotaro Hirasawa. *Towards Automatic Discovery and Reuse of Subroutines in Variable Size Genetic Network Programming*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 485–492, Brisbane, Australia, 10-15 June 2012.
- [Li 12b] Changhe Li, Shengxiang Yang & Ming Yang. *Maintaining Diversity by Clustering in Dynamic Environments*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2734–2741, Brisbane, Australia, 10-15 June 2012.
- [Li 12c] Xianneng Li, Bing Li, Shingo Mabu & Kotaro Hirasawa. *A Continuous Estimation of Distribution Algorithm by Evolving Graph Structures Using Reinforcement Learning*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2097–2104, Brisbane, Australia, 10-15 June 2012.
- [Li 12d] Yangyang Li, Jing Chen, Ruochen Liu & Jianshe Wu. *A Spectral Clustering-Based Adaptive Hybrid Multi-Objective Harmony Search Algorithm for Community Detection*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3308–3315, Brisbane, Australia, 10-15 June 2012.
- [Li 12e] Yanjuan Li & Maozu Guo. *Phase Transition and New Fitness Function Based Genetic Inductive Logic Programming Algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 956–963, Brisbane, Australia, 10-15 June 2012.
- [Li 12f] Zhihui Li, Zhigang Shang, J. J. Liang & Ben Niu. *An Improved Differential Evolution for Constrained Optimization with Dynamic Constraint-Handling Mechanism*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 17–22, Brisbane, Australia, 10-15 June 2012.
- [Liang 12a] J. J. Liang, S. T. Ma, B. Y. Qu & Ben Niu. *Strategy Adaptive Memetic Crowding Differential Evolution For Multimodal Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2919–2925, Brisbane, Australia, 10-15 June 2012.
- [Liang 12b] J. J. Liang, Mao X. B., B. Y. Qu, B. Niu & T. J. Chen. *Elite Multi-Group Differential Evolution*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2413–2419, Brisbane, Australia, 10-15 June 2012.

- [Liang 12c] Jane Jing Liang, Boyang Qu, P. N. Suganthan & Ben Niu. *Dynamic Multi-Swarm Particle Swarm Optimization for Multi-Objective Optimization Problems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1638–1645, Brisbane, Australia, 10-15 June 2012.
- [Liang 12d] Yun-Chia Liang & Josue Rodolfo Cuevas Juarez. *Multilevel Image Thresholding Using Relative Entropy and Virus Optimization Algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3238–3245, Brisbane, Australia, 10-15 June 2012.
- [Liao 12a] Chien-Chih Liao & Chuan-Kang Ting. *Extending the Lifetime of Dynamic Wireless Sensor Networks by Genetic Algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1016–1023, Brisbane, Australia, 10-15 June 2012.
- [Liao 12b] Xin-Lan Liao & Chuan-Kang Ting. *Evolutionary Algorithms Using Adaptive Mutation for the Selective Pickup and Delivery Problem*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2758–2765, Brisbane, Australia, 10-15 June 2012.
- [Lima 12] Marlon Lima, Eduardo Carrano & Ricardo Takahashi. *Multiobjective Planning of Wireless Local Area Networks (WLAN) Using Genetic Algorithms*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3526–3533, Brisbane, Australia, 10-15 June 2012.
- [Lin 12a] Jih-Yiing Lin & Ying ping Chen. *When and What Kind of Memetic Algorithms Perform Well*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2821–2828, Brisbane, Australia, 10-15 June 2012.
- [Lin 12b] Ling Lin, Zhen Ji, Zexuan Zhu & Shan He. *A Crown Jewel Defense Strategy Based Particle Swarm Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1817–1822, Brisbane, Australia, 10-15 June 2012.
- [Ling 12] Sai Ho Ling, Hung Nguyen, Frank H.F. Leung, Kit Yan Chan & Frank Jiang. *Intelligent Fuzzy Particle Swarm Optimization with Cross-Mutated Operation*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1176–1183, Brisbane, Australia, 10-15 June 2012.
- [Liu 12a] Bo Liu, Qingfu Zhang, Francisco V. Fernandez & Georges Gielen. *Self-adaptive Lower Confidence Bound: A New General and Effective Prescreening Method for Gaussian Process Surrogate Model Assisted Evolutionary Algorithms*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2479–2484, Brisbane, Australia, 10-15 June 2012.
- [Liu 12b] Chien-Hung Liu & Chuan-Kang Ting. *Polyphonic Accompaniment Using Genetic Algorithm with Music Theory*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2644–2650, Brisbane, Australia, 10-15 June 2012.
- [Liu 12c] Hai-Lin Liu, Wen-Qin Chen & Fangqing Gu. *A Novel Multi-objective Differential Evolutionary Algorithm Based Sub-region Search*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 244–249, Brisbane, Australia, 10-15 June 2012.

- [Liu 12d] Jenn-Long Liu, Yu-Tzu Hsu & Chih-Lung Hung. *Development of Evolutionary Data Mining Algorithms and their Applications to Cardiac Disease Diagnosis*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 690–697, Brisbane, Australia, 10-15 June 2012.
- [Liu 12e] Jing Liu & Weicai Zhong. *Continuous Game Dynamics on Populations with a Cycle Structure under Weak Selection*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 819–824, Brisbane, Australia, 10-15 June 2012.
- [Liu 12f] Ruochen Liu, Yong Liu & Yangyang Li. *An Improved Method for Multi-objective Clustering Ensemble Algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3355–3362, Brisbane, Australia, 10-15 June 2012.
- [Liu 12g] Ruochen Liu, Xiao Wang, Yangyang Li & Zhang Xiangrong. *Multi-objective Invasive Weed Optimization Algorithm for Clustering*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2202–2209, Brisbane, Australia, 10-15 June 2012.
- [Liu 12h] Wenmin Liu, Zhen Ji, Zexuan Zhu & Shan He. *Survival Analysis of Gene Expression Data Using PSO Based Radial Basis Function Networks*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3095–3099, Brisbane, Australia, 10-15 June 2012.
- [Liu 12i] Yao Liu, Yuk Ying Chung & Wei Chang Yeh. *Simplified Swarm Optimization with Sorted Local Search for Golf Data Classification*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 795–802, Brisbane, Australia, 10-15 June 2012.
- [Liu 12j] Zhihao Liu, Hanwu Chen, Juan Xu, Wenqian Li & Zhigang Li. *Deterministic Secure Quantum Communication with Mutual Authentication Based on Bell Measurement*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1751–1755, Brisbane, Australia, 10-15 June 2012.
- [Logenthiran 12] Thillainathan Logenthiran, Srinivasan Dipti, M. Khambadkone Ashwin & Thangavelu Sundar Raj. *Optimal Sizing of Distributed Energy Resources for Integrated Microgrids using Evolutionary Strategy*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 144–151, Brisbane, Australia, 10-15 June 2012.
- [Lopez 12] Oscar J. Romero Lopez & Angelica de Antonio. *Evolving the way of doing the right thing*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2573–2580, Brisbane, Australia, 10-15 June 2012.
- [Louzada 12] Jailton Louzada, Celso Camilo-Junior, Auri Vincenzi & Cassio Rodrigues. *An Elitist Evolutionary Algorithm for Automatically Generating Test Data*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 455–462, Brisbane, Australia, 10-15 June 2012.
- [Lu 12] Qiang Lu & Qing-Long Han. *A Finite-time Particle Swarm Optimization Algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 841–848, Brisbane, Australia, 10-15 June 2012.

- [Ludwig 12a] Simone Ludwig. *Clonal Selection based Genetic Algorithm for Workflow Service Selection*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1960–1966, Brisbane, Australia, 10-15 June 2012.
- [Ludwig 12b] Simone Ludwig. *Step-Optimized Particle Swarm Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1703–1711, Brisbane, Australia, 10-15 June 2012.
- [Ma 12] Haiping Ma, Minrui Fei, Zhiguo Ding & Jing Jin. *Biogeography-Based Optimization with Ensemble of Migration Models for Global Numerical Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1110–1117, Brisbane, Australia, 10-15 June 2012.
- [Maali 12] Yashar Maali & Adel Al-Jumaily. *A Novel Partially Connected Cooperative Parallel PSO-SVM Algorithm: Study Based on Sleep Apnea Detection*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 198–205, Brisbane, Australia, 10-15 June 2012.
- [Macharet 12] Douglas Macharet, Armando Alves Neto, Vilar da Camara Neto & Mario Campos. *Data Gathering Tour Optimization for Dubins' Vehicles*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2041–2048, Brisbane, Australia, 10-15 June 2012.
- [Mahlmann 12] Tobias Mahlmann, Julian Togelius & Georgios N. Yannakakis. *Evolving Card Sets Towards Balancing Dominion*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1223–1230, Brisbane, Australia, 10-15 June 2012.
- [Maia 12] Renato Maia, Leandro De Castro & Walmir Caminhas. *Bee Colonies as Model for Multimodal Continuous Optimization: The OptBees Algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3363–3370, Brisbane, Australia, 10-15 June 2012.
- [Mallipeddi 12a] Rammohan Mallipeddi & Minhoo Lee. *Ensemble Based Face Recognition using Discriminant PCA Features*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 327–333, Brisbane, Australia, 10-15 June 2012.
- [Mallipeddi 12b] Rammohan Mallipeddi & Minhoo Lee. *Surrogate Model Assisted Ensemble Differential Evolution Algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2073–2080, Brisbane, Australia, 10-15 June 2012.
- [MartInez 12] Saul Zapotecas MartInez & Carlos A. Coello Coello. *A Direct Local Search Mechanism for Decomposition-based Multi-Objective Evolutionary Algorithms*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3480–3487, Brisbane, Australia, 10-15 June 2012.
- [Matayoshi 12] Mitsukuni Matayoshi. *Landscape Information Extraction from Chromosome based on a Quality Control Approach*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1944–1951, Brisbane, Australia, 10-15 June 2012.

- [Mavrovouniotis 12] Michalis Mavrovouniotis & Shengxiang Yang. *Ant colony optimization with memory-based immigrants for the dynamic vehicle routing problem*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2766–2773, Brisbane, Australia, 10-15 June 2012.
- [McCarthy 12] Paul McCarthy. *Path-sharing: A new betweenness measure for community identification in networks*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 79–84, Brisbane, Australia, 10-15 June 2012.
- [Meiguins 12] Aruanda S. G. Meiguins, Roberto C. Lima, Bianchi S. Meiguins, Samuel F. Sousa Junior & Alex A. Freitas. *AutoClustering - An Estimation of Distribution Algorithm for the Automatic Generation of Clustering Algorithms*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2687–2693, Brisbane, Australia, 10-15 June 2012.
- [Menchaca-Mendez 12] Adriana Menchaca-Mendez & Carlos A. Coello Coello. *Solving Multi-Objective Optimization Problems using Differential Evolution and a Maximin Selection Criterion*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3145–3152, Brisbane, Australia, 10-15 June 2012.
- [Meng 12] Yan Meng & Guo Hongliang. *A Gene Regulatory Network based Framework for Self-Organization in Mobile Sensor Networks*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 533–539, Brisbane, Australia, 10-15 June 2012.
- [Merelo Guervos 12] Juan-J Merelo Guervos, Antonio M. Mora, J. Albert Cruz Almaguer, Anna I. Esparcia-Alcazar & Carlos Cotta. *Scaling in distributed evolutionary algorithms with persistent population*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 625–632, Brisbane, Australia, 10-15 June 2012.
- [Mezura-Montes 12] Efren Mezura-Montes & Elyar A. Lopez-Davila. *Adaptation and Local Search in the Modified Bacterial Foraging Algorithm for Constrained Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1546–1553, Brisbane, Australia, 10-15 June 2012.
- [Mishra 12] Krishna Mishra & Marcus Gallagher. *Variable Screening for Reduced Dependency Modelling in Gaussian-based Continuous Estimation of Distribution Algorithms*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2105–2112, Brisbane, Australia, 10-15 June 2012.
- [Mitavskiy 12] Boris Mitavskiy & Jun He. *A Polynomial Time Approximation Scheme for a Single Machine Scheduling Problem Using a Hybrid Evolutionary Algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1513–1520, Brisbane, Australia, 10-15 June 2012.
- [Mohammadi 12] Asad Mohammadi, Mohammad Nabi Omidvar & Xiaodong Li. *Reference Point Based Multi-objective Optimization Through Decomposition*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2131–2138, Brisbane, Australia, 10-15 June 2012.

- [Montgomery 12] James Montgomery & Stephen Chen. *A Simple Strategy for Maintaining Diversity and Reducing Crowding in Differential Evolution*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2790–2797, Brisbane, Australia, 10-15 June 2012.
- [Moraglio 12] Alberto Moraglio, Fernando Otero, Colin Johnson, Simon Thompson & Alex Freitas. *Evolving Recursive Programs using Non-recursive Scaffolding*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2242–2249, Brisbane, Australia, 10-15 June 2012.
- [Moser 12] Irene Moser & Marius Gheorghita. *Combining Search Space Diagnostics and Optimisation*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1900–1907, Brisbane, Australia, 10-15 June 2012.
- [Moubayed 12] Noura Al Moubayed, Bashar Awwad Shiekh hasan, John Q. Gan, Andrei Petrovski & John McCall. *Continuous Presentation for Multi-Objective Channel Selection in Brain-Computer Interfaces*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3488–3494, Brisbane, Australia, 10-15 June 2012.
- [Munoz 12] Mario A. Munoz, Michael Kirley & Saman Halgamuge. *Landscape Characterization of Numerical Optimization Problems Using Biased Scattered Data*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2162–2169, Brisbane, Australia, 10-15 June 2012.
- [Murakami 12] Keisuke Murakami. *A Genetic Algorithm for Probe Testing Problem on High-density PCB*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3456–3463, Brisbane, Australia, 10-15 June 2012.
- [Mussetta 12a] Marco Mussetta, Francesco Grimaccia & Riccardo E. Zich. *Comparison of different optimization techniques for the design of electromagnetic devices*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 705–710, Brisbane, Australia, 10-15 June 2012.
- [Mussetta 12b] Marco Mussetta, Houriyeh Shadmehr, Francesco Grimaccia, Alessandro Gandelli & Riccardo Zich. *Optimization of a Radio Frequency Energy Harvesting Device*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 52–56, Brisbane, Australia, 10-15 June 2012.
- [Nag 12] Kaustuv Nag & Tandra Pal. *A new Archive based Steady State Genetic Algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1864–1870, Brisbane, Australia, 10-15 June 2012.
- [Nascimento 12] Antonio Nascimento & Germano Vasconcelos. *An Experimental Investigation of Artificial Immune System Algorithms for Credit Risk Assessment Applications*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1785–1792, Brisbane, Australia, 10-15 June 2012.
- [Nasir 12] Md Nasir, Soumyadip Sengupta, Swagatam Das & Ponnuthurai N Suganthan. *An improved Multi-objective Optimization Algorithm based on Fuzzy Dominance for Risk Minimization in Biometric Sensor Network*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on

Evolutionary Computation, pages 980–987, Brisbane, Australia, 10-15 June 2012.

- [Nazmul 12] Rumana Nazmul, Madhu Chetty, Ram Samudrala & David Chalmers. *Protein Structure Prediction based on Optimal Hydrophobic Core Formation*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1263–1271, Brisbane, Australia, 10-15 June 2012.
- [Neumann 12] Geoffrey Neumann & David Cairns. *Targeted EDA Adapted for a Routing Problem with Variable Length Chromosomes*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 334–341, Brisbane, Australia, 10-15 June 2012.
- [Ngoko 12] Yanik Ngoko, Alfredo Goldman & Denis Trystram. *Malleable resource sharing algorithms for cooperative resolution of problems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 407–414, Brisbane, Australia, 10-15 June 2012.
- [Nguyen 12a] Hien Nguyen & Ian Wood. *Variable selection in statistical models using population-based incremental learning with applications to genome-wide association studies*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2466–2473, Brisbane, Australia, 10-15 June 2012.
- [Nguyen 12b] Minh Van Nguyen, Michael Kirley & Rodolfo Garcia-Flores. *Community Evolution in A Scientific Collaboration Network*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3222–3229, Brisbane, Australia, 10-15 June 2012.
- [Nguyen 12c] Su Nguyen, Mengjie Zhang, Mark Johnston & Tan Kay Chen. *A Coevolution Genetic Programming Method to Evolve Scheduling Policies for Dynamic Multi-objective Job Shop Scheduling Problems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3332–3339, Brisbane, Australia, 10-15 June 2012.
- [Ni 12] Jiacheng Ni, Li Li, Fei Qiao & Qidi Wu. *A Novel Memetic Algorithm based on the Comprehensive Learning PSO*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 915–922, Brisbane, Australia, 10-15 June 2012.
- [Nicolau 12] Miguel Nicolau, Michael O’Neill & Anthony Brabazon. *Termination in Grammatical Evolution: Grammar Design, Wrapping, and Tails*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2381–2388, Brisbane, Australia, 10-15 June 2012.
- [Nielsen 12] Sune S. Nielsen, Bernabe Dorronsoro, Gregoire Danoy & Pascal Bouvry. *Novel Efficient Asynchronous Cooperative Co-evolutionary Multi-Objective Algorithms*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1372–1378, Brisbane, Australia, 10-15 June 2012.
- [Nikumbh 12] Sarvesh Nikumbh, Shameek Ghosh & Valadi Jayaraman. *Biogeography-Based Informative Gene Selection and Cancer Classification Using SVM and Random Forests*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 131–136, Brisbane, Australia, 10-15 June 2012.

- [Nitschke 12] Geoff Nitschke. *Behavioral Heterogeneity, Cooperation, and Collective Construction*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 117–124, Brisbane, Australia, 10-15 June 2012.
- [Oliveira 12] Luiz Otavio Oliveira, Rodrigo Luiz Mota & Dante Augusto Barone. *Clonal Selection Classifier with Data Reduction: Classification as an Optimization Task*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 85–91, Brisbane, Australia, 10-15 June 2012.
- [Orito 12] Yukiko Orito, Hisashi Yamamoto & Yasuhiro Tsujimura. *Equality Constrained Long-Short Portfolio Replication by Using Probabilistic Model-building GA*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1562–1569, Brisbane, Australia, 10-15 June 2012.
- [Ortuno 12] Francisco Ortuno, Javier P. Florido, Jose M. Urquiza, Hector Pomares, Alberto Prieto & Ignacio Rojas. *Optimization of Multiple Sequence Alignment Methodologies using a Multiobjective Evolutionary Algorithm based on NSGA-II*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 92–99, Brisbane, Australia, 10-15 June 2012.
- [Ou 12] Chung-Ming Ou & C.R. Ou. *Immune Memory with Associativity: Perspectives on Dynamical Systems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 928–933, Brisbane, Australia, 10-15 June 2012.
- [Pace 12] Shannon Pace, Andrew Cain & Clinton Woodward. *A Consolidated Model of Particle Swarm Optimisation Variants*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3270–3277, Brisbane, Australia, 10-15 June 2012.
- [Pai 12] G A Vijayalakshmi Pai & Thierry Michel. *Differential Evolution based optimization of Risk budgeted Equity Market Neutral Portfolios*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1057–1064, Brisbane, Australia, 10-15 June 2012.
- [Palafox 12] Leon Palafox & Iba Hitoshi. *On the use of Population Based Incremental Learning to do Reverse Engineering on Gene Regulatory Networks*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1317–1324, Brisbane, Australia, 10-15 June 2012.
- [Park 12] In-Won Park, Ki-Baek Lee & Jong-Hwan Kim. *Multi-objective Evolutionary Algorithm-based Optimal Posture Control of Humanoid Robots*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 175–181, Brisbane, Australia, 10-15 June 2012.
- [Paul 12] Sandeep Paul, Satish Kumar & Lotika Singh. *Novel Hybrid Compact Genetic Algorithm for Simultaneous Structure and Parameter Learning of Neural Networks*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2567–2572, Brisbane, Australia, 10-15 June 2012.
- [Pehlivanoglu 12] Yasin Volkan Pehlivanoglu & Oktay Baysal. *Improved Particle Swarm Optimization: Catching the Big Wave on the Surf*. In Xiaodong Li, editeur,

- Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 833–840, Brisbane, Australia, 10-15 June 2012.
- [Pei 12] Yan Pei & Hideyuki Takagi. *Fourier Analysis of the Fitness Landscape for Evolutionary Search Acceleration*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2968–2974, Brisbane, Australia, 10-15 June 2012.
- [Perez 12] Diego Perez, Philipp Rohlfshagen & Simon Lucas. *The Physical Travelling Salesman Problem: WCCI 2012 Competition*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1199–1206, Brisbane, Australia, 10-15 June 2012.
- [Picek 12] Stjepan Picek, Marin Golub & Domagoj Jakobovic. *Influence of the Crossover Operator in the Performance of the Hybrid Taguchi GA*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 423–430, Brisbane, Australia, 10-15 June 2012.
- [Pilat 12] Martin Pilat & Roman Neruda. *An Evolutionary Strategy for Surrogate-Based Multiobjective Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1857–1863, Brisbane, Australia, 10-15 June 2012.
- [Pirisi 12] Andrea Pirisi, Francesco Grimaccia, Marco Mussetta & Riccardo E. Zich. *An Evolutionary Optimized Device for Energy Harvesting from Traffic*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3593–3598, Brisbane, Australia, 10-15 June 2012.
- [Pisani 12] Paulo Henrique Pisani & Ana Carolina Lorena. *Evolutionary Neural Networks Applied to Keystroke Dynamics: Genetic and Immune Based*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2999–3006, Brisbane, Australia, 10-15 June 2012.
- [Poon 12] Josiah Poon, Dawei Yin, Simon Poon, Runshun Zhang, Baoyan Liu & Daniel Sze. *Co-evolution of Symptom-Herb Relationship*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2460–2465, Brisbane, Australia, 10-15 June 2012.
- [Puris 12] Amilkar Puris, Rafael Bello, Daniel Molina & Francisco Herrera. *Optimising real parameters using the information of a mesh of solutions: VMO algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2659–2665, Brisbane, Australia, 10-15 June 2012.
- [Qiu 12] Jun-Wei Qiu, John K. Zao & Yu-Hsiang Chou. *A Geometrically Faithful Memetic Algorithm for Searching Sparse Representations of EEG Signals*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 379–385, Brisbane, Australia, 10-15 June 2012.
- [Rabelo 12a] Ricardo Rabelo, Ricardo Fernandes & Ivan Silva. *Operational Planning of Hydrothermal Systems Based on a Fuzzy-PSO Approach*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2581–2588, Brisbane, Australia, 10-15 June 2012.
- [Rabelo 12b] Ricardo Rabelo, Marcus Lemos & Daniel Barbosa. *Power System Harmonics Estimation using Particle Swarm Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3534–3539, Brisbane, Australia, 10-15 June 2012.

- [Rada-Vilela 12] Juan Rada-Vilela, Mengjie Zhang & Winston Seah. *A Performance Study on the Effects of Noise and Evaporation in Particle Swarm Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1892–1899, Brisbane, Australia, 10-15 June 2012.
- [Raffe 12] William Raffe, Fabio Zambetta & Xiaodong Li. *A Survey of Procedural Terrain Generation Techniques using Evolutionary Algorithms*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 803–810, Brisbane, Australia, 10-15 June 2012.
- [Rahman 12a] Md. Mazder Rahman & Gerhard Dueck. *An Algorithm to Find Quantum Templates*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1668–1674, Brisbane, Australia, 10-15 June 2012.
- [Rahman 12b] Mohammad Osiur Rahman, Aini Hussain, Edgar Scavino, M. A. Hannan & Hassan Basri. *Object Identification Using DNA Computing Algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 315–321, Brisbane, Australia, 10-15 June 2012.
- [Rajasekhar 12] Anguluri Rajasekhar, Swagatam Das & P. N. Suganthan. *Design of Fractional Order Controller for a Servohydraulic Positioning System with Micro Artificial Bee Colony Algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 972–979, Brisbane, Australia, 10-15 June 2012.
- [Ramos 12] Josafath Espinosa Ramos & Roberto A. Vazquez. *A New Objective Function to build Seismic Networks using Differential Evolution*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2898–2904, Brisbane, Australia, 10-15 June 2012.
- [Regnier-Coudert 12] Olivier Regnier-Coudert & John McCall. *An Island Model Genetic Algorithm for Bayesian Network Structure Learning*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3419–3426, Brisbane, Australia, 10-15 June 2012.
- [Reynolds 12] Robert Reynolds & Yousef Gawasmeh. *Evolving Heterogeneous Social Fabrics for the Solution of Real-Valued Optimization Problems using Cultural Algorithms*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3395–3402, Brisbane, Australia, 10-15 June 2012.
- [Riano 12] Lorenzo Riano & T.M. McGinnity. *A Robot that Autonomously Improves Skills by Evolving Computational Graphs*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2049–2056, Brisbane, Australia, 10-15 June 2012.
- [Richter 12] Jan Richter & Irene Moser. *A Distributed Multiobjective Approach to Negotiations in Semi-Competitive Environments*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3122–3128, Brisbane, Australia, 10-15 June 2012.
- [Rohler 12] Antonio Bolufe Rohler & Stephen Chen. *Multi-swarm hybrid for multi-modal optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2397–2404, Brisbane, Australia, 10-15 June 2012.

- [Rotaru 12] Cristian Rotaru & Octav Brudaru. *Multi-grid Cellular Genetic Algorithm for Optimizing Variable Ordering of ROBDDs*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2529–2536, Brisbane, Australia, 10-15 June 2012.
- [Roy 12] Subhrajit Roy, Saul Zapotecas MartInez, Carlos A. Coello Coello & Soumyadip Sengupta. *A Multi-Objective Evolutionary Approach for Linear Antenna Array Design and Synthesis*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3472–3479, Brisbane, Australia, 10-15 June 2012.
- [Ruuska 12] Sauli Ruuska & Kaisa Miettinen. *Constructing Evolutionary Algorithms for Bilevel Multiobjective Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 250–256, Brisbane, Australia, 10-15 June 2012.
- [Ryu 12] Si-Jung Ryu, Ki-Baek Lee & Jong-Hwan Kim. *Improved Version of a Multiobjective Quantum-inspired Evolutionary Algorithm with Preference-based Selection*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2318–2324, Brisbane, Australia, 10-15 June 2012.
- [Saha 12a] Amit Saha & Tapabrata Ray. *Equality Constrained Multi-Objective Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1395–1401, Brisbane, Australia, 10-15 June 2012.
- [Saha 12b] Amit Saha & Tapabrata Ray. *A Repair Mechanism for Active Inequality Constraint Handling*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 546–553, Brisbane, Australia, 10-15 June 2012.
- [Sandin 12] Isac Sandin, Guilherme Andrade, Felipe Viegas, Daniel Madeira, Leonardo Rocha, Thiago Salles & Marcos Andre Goncalves. *Aggressive and Effective Feature Selection using Genetic Programming*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2718–2725, Brisbane, Australia, 10-15 June 2012.
- [Sandran 12] Thayalan Sandran, Nordin Zakaria & Anindya Jyoti Pal. *Performance Profile of Some Hybrid Heuristic Search Techniques using Compiler Flag Selection as a Seed Example*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2474–2478, Brisbane, Australia, 10-15 June 2012.
- [Sano 12] Ryosuke Sano, Takuya Shindo, Kenya Jin’no & Toshimichi Saito. *PSO-based Multiple Optima Search Systems with Switched Topology*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3340–3346, Brisbane, Australia, 10-15 June 2012.
- [Santana 12a] Roberto Santana, Alexander Mendiburu & Jose A. Lozano. *An analysis of the use of probabilistic modelling for synaptic connectivity prediction from genomic data*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3495–3502, Brisbane, Australia, 10-15 June 2012.
- [Santana 12b] Roberto Santana, Alexander Mendiburu & Jose A. Lozano. *Structural transfer using EDAs: An application to multi-marker tagging SNP selection*.

- In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3206–3213, Brisbane, Australia, 10-15 June 2012.
- [Santos 12] Thiago Santos, Ricardo H. C. Takahashi & Gladston J. P. Moreira. *A CMA Stochastic Differential Equation Approach for Many-Objective Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3294–3299, Brisbane, Australia, 10-15 June 2012.
- [Saraiva 12] Rommel Saraiva & Placido Pinheiro. *A novel application of crossover operator to a hybrid optimization framework: investigation into cutting problems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 633–639, Brisbane, Australia, 10-15 June 2012.
- [Sato 12a] Aki-Hiro Sato. *Japanese International Air Travel: The Relationship between Flight Ticket Price and Geodesic Distance*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1065–1070, Brisbane, Australia, 10-15 June 2012.
- [Sato 12b] Hiroyuki Sato, Yoshihiko Hasegawa, Danushka Bollegala & Hitoshi Iba. *Probabilistic Model Building GP with Belief Propagation*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2089–2096, Brisbane, Australia, 10-15 June 2012.
- [Sawai 12] Hidefumi Sawai. *Reorganizing A New Generation Airline Network Based on An Ant-Colony Optimization-Inspired Small-World Network*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 287–294, Brisbane, Australia, 10-15 June 2012.
- [Sayed 12] Eman Sayed, Daryl Esam & Ruhul Sarker. *Dependency Identification Technique for Large Scale Optimization Problems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1442–1449, Brisbane, Australia, 10-15 June 2012.
- [Seah 12] Chun-Wei Seah, Yew-Soon Ong, Ivor W. Tsang & Siwei Jiang. *Pareto Rank Learning in Multi-objective Evolutionary Algorithms*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2613–2620, Brisbane, Australia, 10-15 June 2012.
- [Segredo 12] Eduardo Segredo, Carlos Segura & Coromoto Leon. *Analysing the Robustness of Multiobjectivisation Parameters with Large Scale Optimisation Problems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1729–1736, Brisbane, Australia, 10-15 June 2012.
- [Segretier 12] Wilfried Segretier, Manuel Clergue, Martine Collard & Luis Izquierdo. *An evolutionary data mining approach on hydrological data with classifier juries*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2853–2860, Brisbane, Australia, 10-15 June 2012.
- [Sekanina 12] Lukas Sekanina, Vojtech Salajka & Zdenek Vasicek. *Two-Step Evolution of Polymorphic Circuits for Image Multi-Filtering*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1481–1488, Brisbane, Australia, 10-15 June 2012.
- [Selvan 12] Krishna Veni Selvan, Mohd Saufee Muhammad & Sharifah Masniah Wan Masra. *Ensembles of DNA Letters for the Design of Unique DNA*

- Library Using a Modified Version of Multi-criteria VEDEPSO Optimizer.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 364–371, Brisbane, Australia, 10-15 June 2012.
- [Semenkin 12] Eugene Semenkin & Maria Semenkina. *Self-configuring genetic programming algorithm with modified uniform crossover.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2501–2506, Brisbane, Australia, 10-15 June 2012.
- [Sengupta 12a] Abhronil Sengupta, Tathagata Chakraborti, Amit Konar, Eunjin Kim & Atulya K. Nagar. *An Adaptive Memetic Algorithm Using a Synergy of Differential Evolution and Learning Automata.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2436–2443, Brisbane, Australia, 10-15 June 2012.
- [Sengupta 12b] Soumyadip Sengupta, Swagatam Das, Md. Nasir, A. V. Vasilakos & Witold Pedrycz. *Energy-Efficient Differentiated Coverage of Dynamic Objects using an Improved Evolutionary Multi-objective optimization Algorithm with Fuzzy-Dominance.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2186–2193, Brisbane, Australia, 10-15 June 2012.
- [Seredynski 12] Marcin Seredynski, Gregoire Danoy, Tabatabaei Masoud, Pascal Bouvry & Pigne Yoann. *Generation of Realistic Mobility for VANETs Using Genetic Algorithms.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3448–3455, Brisbane, Australia, 10-15 June 2012.
- [Sergeevich 12] Alexandr Sergeevich & Stephen Bartlett. *Optimizing qubit Hamiltonian parameter estimation algorithm using PSO.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3092–3094, Brisbane, Australia, 10-15 June 2012.
- [Setayesh 12] Mahdi Setayesh, Zhang Mengjie & Johnston Mark. *Effects of Static and Dynamic Topologies in Particle Swarm Optimisation for Edge Detection in Noisy Images.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1341–1348, Brisbane, Australia, 10-15 June 2012.
- [Shang 12] Zhigang Shang, Li Zhihui, J. J. Liang & Ben Niu. *Control Parameters Self-Adaptation in Differential.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 65–70, Brisbane, Australia, 10-15 June 2012.
- [Shao 12] Zhifei Shao & Meng Joo Er. *A Review of Inverse Reinforcement Learning Theory and Recent Advances.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 585–592, Brisbane, Australia, 10-15 June 2012.
- [Sharifi 12] Ali Sharifi, Vahid Noroozi, Masoud Bashiri, Ali B. Hashemi & Mohammad Reza Meybodi. *Two Phased Cellular PSO: A New Collaborative Cellular Algorithm for Optimization in Dynamic Environments.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 350–357, Brisbane, Australia, 10-15 June 2012.
- [Sharma 12a] Tarun Kumar Sharma, Millie Pant & Jagdish Chand Bansal. *Artificial Bee Colony with Mean Mutation Operator for Better Exploitation.* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3045–3051, Brisbane, Australia, 10-15 June 2012.

- [Sharma 12b] Tarun Kumar Sharma, Millie Pant & Jagdish Chand Bansal. *Some Modifications to Enhance the Performance of Artificial Bee Colony*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3577–3584, Brisbane, Australia, 10-15 June 2012.
- [Shelokar 12] Prakash Shelokar, Arnaud Quirin & Oscar Cordon. *Automatic Extraction of Common Research Areas in World Scientograms using the Multiobjective Subdue Algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3230–3237, Brisbane, Australia, 10-15 June 2012.
- [Shelton 12] Joseph Shelton, Gerry Dozier, Joshua Adams & Aniesha Alford. *Permutation-Based Biometric Authentication Protocols for Mitigating Replay Attacks*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3630–3634, Brisbane, Australia, 10-15 June 2012.
- [Shen 12] Tsu-Wang Shen, Ting-Fong Laio & Shao-Tsu Chen. *Hormone Concentration Inception: Development an Artificial Immune System with Immunomodulator (AIS) Intervention*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 656–661, Brisbane, Australia, 10-15 June 2012.
- [Shi 12] Qiao Shi, Wei Yin & Andy Song. *Analysis of Motion Detectors Evolved by Genetic Programming*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 501–508, Brisbane, Australia, 10-15 June 2012.
- [Shim 12a] Vui Ann Shim, Kay Chen Tan & Kok Kiong Tan. *A Hybrid Adaptive Evolutionary Algorithm in the Domination-based and Decomposition-based Frameworks of Multi-objective Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2113–2120, Brisbane, Australia, 10-15 June 2012.
- [Shim 12b] Vui Ann Shim, Kay Chen Tan & Kok Kiong Tan. *A Hybrid Estimation of Distribution Algorithm for Solving the Multi-objective Multiple Traveling Salesman Problem*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1809–1816, Brisbane, Australia, 10-15 June 2012.
- [Shimoyama 12] Koji Shimoyama, Koma Sato, Shinkyu Jeong & Shigeru Obayashi. *Comparison of the Criteria for Updating Kriging Response Surface Models in Multi-Objective Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2170–2177, Brisbane, Australia, 10-15 June 2012.
- [Si 12] Chengyong Si, Lei Wang & Qidi Wu. *Mapping Constrained Optimization Problems to Algorithms and Constraint Handling Techniques*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3379–3386, Brisbane, Australia, 10-15 June 2012.
- [Siegmond 12] Florian Siegmund, Amos H.C. Ng & Kalyanmoy Deb. *Finding a preferred diverse set of Pareto-optimal solutions for a limited number of function calls*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 711–718, Brisbane, Australia, 10-15 June 2012.
- [Silveira 12] Luciano Silveira, Ricardo Tanscheit & Marley Vellasco. *Quantum-Inspired Genetic Algorithms applied to Ordering Combinatorial Optimization*

- Problems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 295–301, Brisbane, Australia, 10-15 June 2012.
- [Sinha 12a] Ankur Sinha, Pekka Malo & Kalyanmoy Deb. *Unconstrained Scalable Test Problems for Single-Objective Bilevel Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2333–2340, Brisbane, Australia, 10-15 June 2012.
- [Sinha 12b] Ankur Sinha, Anmol Pandey & Kalyanmoy Deb. *Solving High Objective Problems in Fixed Interactions with the Decision Maker*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2294–2301, Brisbane, Australia, 10-15 June 2012.
- [Sinha 12c] Suruchi Sinha, Abhishek Bhola, V.K. Panchal, Siddhant Singhal & Ajith Abraham. *Resolving Mixed Pixel Using Hybridization Of Ant Colony Optimization And Biogeography Based Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 222–227, Brisbane, Australia, 10-15 June 2012.
- [Siriwardana 12] Jayantha Siriwardana & Saman Halgamuge. *Fast Shortest Path Optimization Inspired by Shuttle Streaming of Physarum Polycephalum*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3246–3253, Brisbane, Australia, 10-15 June 2012.
- [Smith-Miles 12] Kate Smith-Miles & Thomas Tan. *Measuring Algorithm Footprints in Instance Space*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3569–3576, Brisbane, Australia, 10-15 June 2012.
- [Soam 12] Vishal Soam, Leon Palafox & Hitoshi Iba. *Multi-Objective Portfolio Optimization and Rebalancing Using Genetic Algorithms with Local Search*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1087–1093, Brisbane, Australia, 10-15 June 2012.
- [Srivastava 12] Sanjay Srivastava & Yogesh Anand. *An Intelligent System to Address Occupational Health of Workers Exposed to High Risk Jobs*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2552–2558, Brisbane, Australia, 10-15 June 2012.
- [Stringer 12] Jeremy Stringer, Gary Lamont & Geoffrey Akers. *Radar Phase-Coded Waveform Design using Multi-Objective Evolutionary Algorithms*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2310–2317, Brisbane, Australia, 10-15 June 2012.
- [Sun 12a] Xiaoyan Sun, Lei Yang, Dunwei Gong & Ming Li. *Interactive Genetic Algorithm Assisted with Group Decision Making-based Collective Intelligence*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2673–2680, Brisbane, Australia, 10-15 June 2012.
- [Sun 12b] Yi Sun, Albert Y.S. Lam, Victor O.K. Li, Jin Xu & Jame J.Q. Yu. *Chemical Reaction Optimization for the Optimal Power Flow Problem*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3555–3562, Brisbane, Australia, 10-15 June 2012.

- [Szabo 12] Claudia Szabo & Trent Kroeger. *Evolving Multi-objective Strategies for Task Allocation of Scientific Workflows on Public Clouds*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2302–2309, Brisbane, Australia, 10-15 June 2012.
- [Takahama 12a] Tetsuyuki Takahama & Setsuko Sakai. *Differential Evolution with Dynamic Strategy and Parameter Selection by Detecting Landscape Modality*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 593–600, Brisbane, Australia, 10-15 June 2012.
- [Takahama 12b] Tetsuyuki Takahama & Setsuko Sakai. *Efficient Constrained Optimization by the Epsilon Constrained Rank-Based Differential Evolution*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1387–1394, Brisbane, Australia, 10-15 June 2012.
- [Takahama 12c] Tetsuyuki Takahama & Setsuko Sakai. *Large Scale Optimization by Differential Evolution with Landscape Modality Detection and a Diversity Archive*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2876–2883, Brisbane, Australia, 10-15 June 2012.
- [Takahiro 12] Tsujimoto Takahiro, Shindo Takuya, Kimuta Takayuki & Jin’no Kenya. *A Relationship between Network Topology and Search Performance of PSO*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 358–363, Brisbane, Australia, 10-15 June 2012.
- [Takano 12] Mio Takano & Yuko Osana. *Automatic Composition System using Genetic Algorithm and N-gram Model considering Melody Blocks*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 525–532, Brisbane, Australia, 10-15 June 2012.
- [Takenouchi 12] Hiroshi Takenouchi, Masataka Tokumaru & Noriaki Muranaka. *Performance Evaluation of Interactive Evolutionary Computation with Tournament-Style Evaluation*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1–8, Brisbane, Australia, 10-15 June 2012.
- [Tan 12] Swee Chuan Tan. *Simplifying and Improving Swarm-based Clustering*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3190–3197, Brisbane, Australia, 10-15 June 2012.
- [Tanaka 12] Masahiro Tanaka & Tomoya Takahama. *Restoration of Motion-Blurred Line Drawings by Differential Evolution and Richardson-Lucy Algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1489–1496, Brisbane, Australia, 10-15 June 2012.
- [Tang 12a] Jiangjun Tang, Sameer Alam, Chris Lokan & Hussein Abbass. *A Multi-objective Evolutionary Method for Dynamic Airspace Re-sectorization using Sectors Clipping and Similarities*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3607–3614, Brisbane, Australia, 10-15 June 2012.
- [Tang 12b] Maolin Tang. *Evolutionary Placement of Continuously Operating Reference Stations of Network Real-Time Kinematic*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 415–422, Brisbane, Australia, 10-15 June 2012.

- [Tao 12] Yanyun Tao, Jian Cao, Yuzhen Zhang, Jiajun Lin & Minglu Li. *Using Module-level Evolvable hardware Approach in Design of Sequential Logic Circuits*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2234–2241, Brisbane, Australia, 10-15 June 2012.
- [Taroco 12] Cristiane Taroco, Eduardo Carrano, Oriane Neto & Ricardo Takahashi. *A Faster Genetic Algorithm for Substation Location and Network Design of Power Distribution Systems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 463–468, Brisbane, Australia, 10-15 June 2012.
- [Tasgetiren 12] M. Fatih Tasgetiren, Onder Bulut & M. Murat Fadiloglu. *A Discrete Harmony Search Algorithm for the Economic Lot Scheduling Problem with Power of Two Policy*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2521–2528, Brisbane, Australia, 10-15 June 2012.
- [Tasoulis 12] Sotiris Tasoulis, Michael Epitropakis, Vassilis Plagianakos & Dimitris Tasoulis. *Density Based Projection Pursuit Clustering*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3643–3650, Brisbane, Australia, 10-15 June 2012.
- [Ter-Sarkisov 12] Aram Ter-Sarkisov. *Elitism Levels Traverse Mechanism For The Derivation of Upper Bounds on Unimodal Functions*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 617–624, Brisbane, Australia, 10-15 June 2012.
- [Thompson 12] Jeffrey A. Thompson & Clare Bates Congdon. *GAMID: Using Genetic Algorithms for the Inference of DNA Motifs That Are Represented in Only a Subset of Sequences of Interest*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1301–1308, Brisbane, Australia, 10-15 June 2012.
- [Toda 12] Yuichiro Toda, Tsubasa Narita & Naoyuki Kubota. *Information Visualization based on 3D Modeling for Human-friendly Teleoperation*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3623–3629, Brisbane, Australia, 10-15 June 2012.
- [Trivedi 12] Anupam Trivedi, Deepak Sharma & Dipti Srinivasan. *Multi-objectivization of Short-Term Unit Commitment under Uncertainty using Evolutionary Algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 271–278, Brisbane, Australia, 10-15 June 2012.
- [Tsai 12] Pei-Chuan Tsai, Chih-Ming Chen & Ying ping Chen. *Sparse Degrees Analysis for LT Codes Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1010–1015, Brisbane, Australia, 10-15 June 2012.
- [Tsuji 12] Miwako Tsuji, Mitsuhisa Sato, Akifumi Tanabe, Yuji Inagaki & Tetsuo Hashimoto. *An Asynchronous Parallel Genetic Algorithm for the Maximum Likelihood Phylogenetic Tree Search*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2349–2356, Brisbane, Australia, 10-15 June 2012.
- [Tsutsui 12] Shigeyoshi Tsutsui & Noriyuki Fujimoto. *Implementation of Histogram Based Sampling Algorithm within an EDA Scheme with CUDA*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on

- Evolutionary Computation, pages 1247–1254, Brisbane, Australia, 10-15 June 2012.
- [Tusar 12] Tea Tusar, Erik Dovgan & Bogdan Filipic. *Evolutionary Scheduling of Flexible Offers for Electricity Supply and Demand*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1160–1167, Brisbane, Australia, 10-15 June 2012.
- [Uchitane 12] Takeshi Uchitane & Toshiharu Hatanaka. *Experimental Study for Multi-Objective PSO with Single Objective Guide Selection*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 684–689, Brisbane, Australia, 10-15 June 2012.
- [Ulker 12] Ozgur Ulker & Dario Landa-Silva. *Evolutionary Local Search for Solving the Office Space Allocation Problem*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3615–3622, Brisbane, Australia, 10-15 June 2012.
- [Unemi 12] Tatsuo Unemi. *SBArt4 for an Automatic Evolutionary Art*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2605–2612, Brisbane, Australia, 10-15 June 2012.
- [Vahdat 12] Ali Vahdat, Malcolm I. Heywood & A. Nur Zincir-Heywood. *Symbiotic Evolutionary Subspace Clustering*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2845–2852, Brisbane, Australia, 10-15 June 2012.
- [Valsecchi 12] Andrea Valsecchi, Sergio Damas & Jose Santamaria. *An Image Registration Approach using Genetic Algorithms*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1450–1457, Brisbane, Australia, 10-15 June 2012.
- [Vanucci 12] Sanderson Vanucci, Rafael Bicalho, Eduardo Carrano & Ricardo Takahashi. *A Modified NSGA-II for the Multiobjective Multi-mode Resource-Constrained Project Scheduling Problem*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 728–734, Brisbane, Australia, 10-15 June 2012.
- [Vasicek 12] Zdenek Vasicek & Lukas Sekanina. *On Area Minimization of Complex Combinational Circuits Using Cartesian Genetic Programming*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 825–832, Brisbane, Australia, 10-15 June 2012.
- [Vathsavayi 12] Sriharsha Vathsavayi, Outi Raiha & Kai Koskimies. *Using Quality Farms in Multi-Objective Genetic Software Architecture Synthesis*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 609–616, Brisbane, Australia, 10-15 June 2012.
- [Vazquez-Fernandez 12] Eduardo Vazquez-Fernandez, Carlos Coello & Feliu Sagols. *An Evolutionary Algorithm coupled with the Hooke-Jeeves Algorithm for Tuning a Chess Evaluation Function*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1255–1262, Brisbane, Australia, 10-15 June 2012.
- [Vazquez-Rodriguez 12] Santiago Vazquez-Rodriguez, Jesus A. Gomollon, Gervasio Varela & Alejandro Paz-Lopez. *Non-Observability Analysis by Means of an Evolutionary Technique in Measured Electric Power Systems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 988–994, Brisbane, Australia, 10-15 June 2012.

- [Veeramachaneni 12] Kalyan Veeramachaneni, Markus Wagner, Una-May O'Reilly & Frank Neumann. *Optimizing Energy Output and Layout Costs for Large Wind Farms using Particle Swarm Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3540–3546, Brisbane, Australia, 10-15 June 2012.
- [Vieira 12] Susana Vieira, Luis Mendonca, Goncalo Farinha & Joao Sousa. *Metaheuristics for feature selection: application to sepsis outcome prediction*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 934–941, Brisbane, Australia, 10-15 June 2012.
- [Vitorino 12] Lumadaiaara Vitorino, Sergio Ribeiro & Carmelo Bastos-Filho. *A Hybrid Swarm Intelligence Optimizer based on Particles and Artificial Bees for High-Dimensional Search Spaces*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 23–28, Brisbane, Australia, 10-15 June 2012.
- [Wan 12] Shuzhen Wan, Shengwu Xiong & Yi Liu. *Prediction based Multi-strategy Differential Evolution Algorithm for Dynamic Environments*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 640–647, Brisbane, Australia, 10-15 June 2012.
- [Wang 12a] Lin Wang, Bo Yang, Yuehui Chen & Xiuyang Zhao. *Predict the Hydration of Portland Cement using Differential Evolution*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3443–3447, Brisbane, Australia, 10-15 June 2012.
- [Wang 12b] Lutao Wang, Wei Xu, Shingo Mabu & Kotaro Hirasawa. *Rule Accumulation Method Based on Credit Genetic Network Programming*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3651–3658, Brisbane, Australia, 10-15 June 2012.
- [Wang 12c] Tzai-Der Wang, Xiaochuan Wu & Colin Fyfe. *Comparative Study of Visualisation Methods for Temporal Data*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1052–1056, Brisbane, Australia, 10-15 June 2012.
- [Wang 12d] Xianpeng Wang & Lixin Tang. *Multi-objective optimization using a hybrid differential evolution algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2081–2088, Brisbane, Australia, 10-15 June 2012.
- [Watanabe 12] Daiki Watanabe & Kazuyuki Ito. *Roles of real-world properties in the Baldwin effect*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 399–406, Brisbane, Australia, 10-15 June 2012.
- [Weerasinghe 12] Madawa Weerasinghe & Georgy Sofronov. *A Modified Cross Entropy Method for Detecting Multiple Change Points in DNA Count Data*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2001–2008, Brisbane, Australia, 10-15 June 2012.
- [Wei 12a] Jingxuan Wei & Yuping Wang. *Hyper Rectangle Search Based Particle Swarm Algorithm for Dynamic Constrained Multi-Objective Optimization Problems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 190–197, Brisbane, Australia, 10-15 June 2012.

- [Wei 12b] Xin Wei & Shigeru Fujimura. *Parallel Quantum Evolutionary Algorithms with Client-Server Model for Multi-Objective Optimization on Discrete Problems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3262–3269, Brisbane, Australia, 10-15 June 2012.
- [Wen 12] Long Wen, Liang Gao, Xinyu Li, Guohui Zhang & Yang Yang. *Application of Free Pattern Search on the Surface Roughness Prediction in End Milling*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 765–770, Brisbane, Australia, 10-15 June 2012.
- [Wenping 12] Ma Wenping, Huang Yuanyuan, Li Congling & Liu Jing. *Image Segmentation Based On A Hybrid Immune Memetic Algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1679–1686, Brisbane, Australia, 10-15 June 2012.
- [Wesolkowski 12a] Slawomir Wesolkowski & Daniel Wojtaszek. *SaFESST: Stochastic Fleet Estimation Under Steady State Tasking via Evolutionary Fleet Scheduling*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1325–1332, Brisbane, Australia, 10-15 June 2012.
- [Wesolkowski 12b] Slawomir Wesolkowski, Daniel Wojtaszek & Kyle Willick. *Multi-objective Optimization of the Fleet Mix Problem Using the SaFER Model*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2341–2348, Brisbane, Australia, 10-15 June 2012.
- [While 12] Lyndon While & Lucas Bradstreet. *Applying the WFG Algorithm to Calculate Incremental Hypervolumes*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1521–1528, Brisbane, Australia, 10-15 June 2012.
- [Williams 12] Henry Williams & Will Browne. *Integration of Learning Classifier Systems with Simultaneous Localisation and Mapping for Autonomous Robotics*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2428–2435, Brisbane, Australia, 10-15 June 2012.
- [Wilson 12a] Garnett Wilson, Simon Harding, Orland Hoeber, Rodolphe Devillers & Wolfgang Banzhaf. *Parallel Exhaustive Search vs. Evolutionary Computation in a Large Real World Network Search Space*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1239–1246, Brisbane, Australia, 10-15 June 2012.
- [Wilson 12b] Garnett Wilson, Derek Leblanc & Wolfgang Banzhaf. *Using Sector Information with Linear Genetic Programming for Intraday Equity Price Trend Analysis*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1071–1078, Brisbane, Australia, 10-15 June 2012.
- [Wink 12] Stefan Wink, Thomas Baeck & Michael Emmerich. *A Meta-Genetic Algorithm for Solving the Capacitated Vehicle Routing Problem*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3635–3642, Brisbane, Australia, 10-15 June 2012.

- [Witten 12] Matthew Witten & Owen Clancey. *An Evolutionary Algorithm for Optimization of Affine Transformation Parameters for Dose Matrix Warping in Patient-Specific Quality Assurance of Radiotherapy Dose Distributions*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 108–111, Brisbane, Australia, 10-15 June 2012.
- [Wu 12a] Yanghui Wu, John McCall, David Corne & Olivier Regnier-Coudert. *Landscape Analysis for Hyperheuristic Bayesian Network Structure Learning on Unseen Problems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3198–3205, Brisbane, Australia, 10-15 June 2012.
- [Wu 12b] Yi-Ling Wu, Tsu-Feng Ho, Shyong Jian Shyu & Bertrand M. T. Lin. *Discrete particle swarm optimization for materials acquisition in multi-unit libraries*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 662–668, Brisbane, Australia, 10-15 June 2012.
- [Wu 12c] Zhou Wu, Lu Xu, T. W. S. Chow & Mingbo Zhao. *Local Cooperation Delivers Global Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2271–2278, Brisbane, Australia, 10-15 June 2012.
- [Xiao 12] Li Xiao & Xingquan Zuo. *Multi-DEPSO—a DE and PSO Based Hybrid Algorithm in Dynamic Environments*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1601–1607, Brisbane, Australia, 10-15 June 2012.
- [Xie 12] Feng Xie, Andy Song & Vic Ciesielski. *Event Detection in Time Series by Genetic Programming*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2507–2514, Brisbane, Australia, 10-15 June 2012.
- [Xinguo 12] Shui Xinguo, Zuo Xingquan & Chen Cheng. *A Cultural Clonal Selection Algorithm based Fast Vehicle Scheduling Approach*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 893–899, Brisbane, Australia, 10-15 June 2012.
- [Xiong 12] Jian Xiong, Hussein Abbass & Kamran Shafi. *Multi-Uncertainty Problems (MUP) with Applications to Managing Risk in Resource-Constrained Project Scheduling*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1505–1512, Brisbane, Australia, 10-15 June 2012.
- [Xu 12a] Jiaqing Xu, Qi Lv, Jie Zhou & Yong Dou. *A Self-Organizing and Self-Adaptive French Flag Organism Based on Lateral Activation Model*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 493–500, Brisbane, Australia, 10-15 June 2012.
- [Xu 12b] Jin Xu, Albert Y.S. Lam, Victor O.K. Li, Qiwei Li & Xiaodan Fan. *Short Adjacent Repeat Identification Based on Chemical Reaction Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 601–608, Brisbane, Australia, 10-15 June 2012.
- [Xue 12] Bing Xue, Mengjie Zhang & Will N. Browne. *New Fitness Functions in Binary Particle Swarm Optimisation for Feature Selection*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 779–786, Brisbane, Australia, 10-15 June 2012.

- [Yamaguchi 12] Hiroaki Yamaguchi, Tomoyuki Hiroyasu, Sakito Nunokawa, Noriko Koizumi, Naoki Okumura, Hisatake Yokouchi, Mitsunori Miki & Masato Yoshimi. *Comparison Study of Controlling Bloat Model of GP in Constructing Filter for Cell Image Segmentation Problems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3503–3510, Brisbane, Australia, 10-15 June 2012.
- [yan Sun 12] Xiao yan Sun, Shan shan Chen & Xiao ping Ma. *Semi-supervised Ranking SVM-assisted IGA with Hierarchical Evaluations*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3153–3160, Brisbane, Australia, 10-15 June 2012.
- [Yan 12] Fei Yan, Phuc Q. Le, Abdullah M. Iliyasu, Bo Sun, Jesus A. Garcia, Fangyan Dong & Kaoru Hirota. *Assessing the Similarity of Quantum Images based on Probability Measurements*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1662–1667, Brisbane, Australia, 10-15 June 2012.
- [Yang 12a] Li Yang. *Adaptive Learning Evaluation Model For Evolutionary Art*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2589–2596, Brisbane, Australia, 10-15 June 2012.
- [Yang 12b] Yang Yang, Shingo Mabu & Kotaro Hirasawa. *A Multitasks Learning Approach to Autonomous Agent based on Genetic Network Programming*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1937–1943, Brisbane, Australia, 10-15 June 2012.
- [Yao 12] Xiangjuan Yao, Dunwei Gong, Yongjin Luo & Ming Li. *Test Data Reduction Based on Dominance Relations of Target Statements*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 743–750, Brisbane, Australia, 10-15 June 2012.
- [Yazdani 12] Danial Yazdani, Mohammad Reza Akbarzadeh-Totonchi, Babak Nasiri & Mohammad Reza Meybodi. *A New Artificial Fish Swarm Algorithm for Dynamic Optimization Problems*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1538–1545, Brisbane, Australia, 10-15 June 2012.
- [Yeh 12a] Chia-Hsuan Yeh & Chun-Yi Yang. *Can learning affect the effectiveness of price limits?* In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1094–1101, Brisbane, Australia, 10-15 June 2012.
- [Yeh 12b] Wei-Chang Yeh, Yuan-Ming Yeh, Chun-Hua Chou, Y.Y. Chung & Xiangjian He. *A Radio Frequency Identification Network Design Methodology for the Decision Problem in Mackay Memorial Hospital Based on Swarm Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 698–704, Brisbane, Australia, 10-15 June 2012.
- [Yoo 12] Jun Hee Yoo, Ho-Sik Seok & Byoung-Tak Zhang. *Evolutionary Particle Filtering for Sequential Dependency Learning from Video Data*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1608–1615, Brisbane, Australia, 10-15 June 2012.
- [Yu 12a] James J.Q. Yu, Albert Y.S. Lam & Victor O.K. Li. *Real-Coded Chemical Reaction Optimization with Different Perturbation Functions*. In Xiaodong

- Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2983–2990, Brisbane, Australia, 10-15 June 2012.
- [Yu 12b] James J.Q. Yu, Victor O.K. Li & Albert Y.S. Lam. *Sensor Deployment for Air Pollution Monitoring Using Public Transportation System*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 995–1001, Brisbane, Australia, 10-15 June 2012.
- [Yuan 12] Yuan Yuan & Hua Xu. *HHS/LNS: An Integrated Search Method for Flexible Job Shop Scheduling*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 811–818, Brisbane, Australia, 10-15 June 2012.
- [yue Qiu 12] Fei yue Qiu, Yu shi Wu, Li ping Wang & Bo Jiang. *Bipolar Preferences Dominance based Evolutionary Algorithm for Many-Objective Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 787–794, Brisbane, Australia, 10-15 June 2012.
- [Yuen 12] Joseph Yuen, Sophia Gao, Markus Wagner & Frank Neumann. *An Adaptive Data Structure for Evolutionary Multi-Objective Algorithms with Unbounded Archives*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1985–1992, Brisbane, Australia, 10-15 June 2012.
- [Yusoh 12] Zeratul Mohd Yusoh & Maolin Tang. *Clustering Composite SaaS Components in Cloud Computing using a Grouping Genetic Algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2357–2364, Brisbane, Australia, 10-15 June 2012.
- [Yuwono 12a] Mitchell Yuwono, Steven W. Su, Bruce Moulton & Hung Nguyen. *Fast unsupervised learning method for rapid estimation of cluster centroids*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2139–2146, Brisbane, Australia, 10-15 June 2012.
- [Yuwono 12b] Mitchell Yuwono, Steven W. Su, Bruce Moulton & Hung Nguyen. *Method for increasing the computation speed of an unsupervised learning approach for data clustering*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3007–3014, Brisbane, Australia, 10-15 June 2012.
- [Zamuda 12] Ales Zamuda & Janez Brest. *Tree Model Reconstruction Innovization Using Multi-objective Differential Evolution*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1616–1623, Brisbane, Australia, 10-15 June 2012.
- [Zao 12] John K. Zao, Martin Hornansky & Pei-Lun Diao. *Design of Optimal Short-Length LT Codes Using Evolution Strategies*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 152–160, Brisbane, Australia, 10-15 June 2012.
- [Zhang 12a] Anhong Zhang & Rob Saunders. *Towards the Evolution of a Language for Creative Design*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1024–1029, Brisbane, Australia, 10-15 June 2012.
- [Zhang 12b] Guangrui Zhang, Mahdi Mahfouf, George Panoutsos & Shen Wang. *A Multi-objective Particle Swarm Optimization Algorithm with a Dynamic*

- Hypercube Archive, Mutation and Population Competition*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1885–1891, Brisbane, Australia, 10-15 June 2012.
- [Zhang 12c] Hao Zhang, Yunlong Zhu & Xiaohui Yan. *Multi-Hive Artificial Bee Colony Algorithm for Constrained Multi-Objective Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 554–561, Brisbane, Australia, 10-15 June 2012.
- [Zhang 12d] Kaibo Zhang & Bin Li. *Cooperative Coevolution with Global Search for Large Scale Global Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3031–3037, Brisbane, Australia, 10-15 June 2012.
- [Zhang 12e] Kaibo Zhang, Bin Li & Lixiang Tan. *Empirical study of the effect of variable correlation on grouping in Cooperative Coevolutionary Evolutionary Algorithms*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 308–314, Brisbane, Australia, 10-15 June 2012.
- [Zhang 12f] Lifeng Zhang, Rong He & Mengling Yan. *Heterogeneous double populations based hybrid genetic algorithm design for training feedforward neural networks*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2991–2998, Brisbane, Australia, 10-15 June 2012.
- [Zhang 12g] Lifeng Zhang & Chenxi Zhou. *Self Organized Parallel Genetic Algorithm to Automatically Realize Diversified Convergence*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 719–727, Brisbane, Australia, 10-15 June 2012.
- [Zhang 12h] Wei Zhang, Xu Feng, Yongjie Zhang & Xiong Xiong. *Information Diffusion and Its Impacts on Artificial Stock Markets in Learning Process*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1146–1151, Brisbane, Australia, 10-15 June 2012.
- [Zhang 12i] Weiwei Zhang & Gary Yen. *Immune-inspired Evolutionary Algorithm for Constrained Optimization*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1695–1702, Brisbane, Australia, 10-15 June 2012.
- [Zhang 12j] Xiangrong Zhang, Erlei Zhang & Runxin Li. *Optimized Feature Extraction by Immune Clonal Selection Algorithm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2681–2686, Brisbane, Australia, 10-15 June 2012.
- [Zhang 12k] Xin Zhang & Wenjian Luo. *Evolutionary Repair for Evolutionary Design of Combinational Logic Circuits*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1473–1480, Brisbane, Australia, 10-15 June 2012.
- [Zhang 12l] Xin Zhang & Shiu Yin Yuen. *Opposition-Based Adaptive Differential Evolution*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1843–1850, Brisbane, Australia, 10-15 June 2012.
- [Zhang 12m] Zheng Zhang, Hock Soon Seah & Jixiang Sun. *A Hybrid Particle Swarm Optimization with Cooperative Method for Multi-Object Tracking*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 1624–1629, Brisbane, Australia, 10-15 June 2012.

- [Zhao 12] Shi-Zheng Zhao & P. N. Suganthan. *Comprehensive Comparison of Convergence Performance of Optimization Algorithms based on Nonparametric Statistical Tests*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2861–2867, Brisbane, Australia, 10-15 June 2012.
- [Zhou 12] Aimin Zhou, Qingfu Zhang & Guixu Zhang. *A Multiobjective Evolutionary Algorithm based on Decomposition and Probability Model*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 3129–3136, Brisbane, Australia, 10-15 June 2012.
- [Zhu 12a] Lin Zhu, Longbing Cao & Jie Yang. *Multiobjective Evolutionary Algorithm-Based Soft Subspace Clustering*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2837–2844, Brisbane, Australia, 10-15 June 2012.
- [Zhu 12b] Zexuan Zhu, Wenmin Liu, Zhen Ji & Shan He. *Memetic Clustering Based on Particle Swarm Optimizer and K-Means*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2905–2910, Brisbane, Australia, 10-15 June 2012.
- [Zulvia 12] Ferani E. Zulvia, R.J. Kuo & Tung-Lai Hu. *Solving CVRP with Time Window, Fuzzy Travel Time and Demand Via A Hybrid Ant Colony Optimization and Genetic Algortihm*. In Xiaodong Li, editeur, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, pages 2960–2967, Brisbane, Australia, 10-15 June 2012.