

## Список литературы

- [Abdulhamid et al.(2012)Abdulhamid, Song, Neshatian, and Zhang] Fahmi Abdulhamid, Andy Song, Kourosh Neshatian, and Mengjie Zhang. *Evolving Genetic Programming Classifiers with Loop Structures*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2710–2717 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Abello et al.(2012)Abello, Michalewicz, and Bui] Manuel Abello, Zbigniew Michalewicz, and Lam Thu Bui. *A Reactive-Proactive Approach for Solving Dynamic Scheduling with Time-varying Number of Tasks*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2121–2130 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Adewumi et al.(2012)Adewumi, Budlender, and Olusanya] Aderemi Adewumi, Nigel Budlender, and Micheal Olusanya. *Optimizing the Assignment of Blood in a Blood Banking System: Some Initial Results*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 751–756 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Ahmed and Shaheen(2012)] Kattan Ahmed and Fatima Shaheen. *PSO as a Meta-Search for Hyper-GA System to Evolve Optimal Agendas for Sequential Multi-Issue Negotiation*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3108–3115 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Akay and Kirmizi(2012)] Bahriye Akay and Ibrahim Kirmizi. *Structural Optimization of Wavelet Packets using Swarm Algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2931–2935 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Al-Sahaf et al.(2012)Al-Sahaf, Song, Neshatian, and Zhang] Harith Al-Sahaf, Andy Song, Kourosh Neshatian, and Mengjie Zhang. *Extracting Image Features for Classification By Two-Tier Genetic Programming*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1630–1637 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Alam et al.(2012a)Alam, Lokan, and Abbass] Sameer Alam, Chris Lokan, and Hussein Abbass. *What Can Make an Airspace Unsafe? Characterizing Collision Risk using Multi-Objective Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 214–221 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Alam et al.(2012b)Alam, Gillian, Riddle, and Koh] Shafiq Alam, Dobbie Gillian, Patricia Riddle, and Yun Sing Koh. *Hierarchical PSO Clustering Based Recommender System*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 879–886 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Albaity et al.(2012)Albaity, Meshoul, and Kaban] Heyam Albaity, Souham Meshoul, and Ata Kaban. *On Extending Quantum Behaved Particle Swarm Optimization to MultiObjective Context*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1967–1974 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Albukhanajer et al.(2012)Albukhanajer, Jin, Briffa, and Williams] Wissam Albukhanajer, Yaochu Jin, Johann Briffa, and Godfried Williams. *Evolutionary Multi-Objective Optimization of Trace Transform for Invariant Feature Extraction*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1458–1465 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Aleti et al.(2012)Aleti, Moser, and Mostaghim] Aldeida Aleti, Irene Moser, and Sanaz Mostaghim. *Adaptive Range Parameter Control*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2405–2412 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Alghamdi et al.(2012)Alghamdi, Tang, and Alshomrani] Hanan Alghamdi, Lilian Tang, and Saleh Alshomrani. *Hybrid ACO and TOFA Feature Selection Approach for Text Classification*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3184–3189 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Ali et al.(2012)Ali, Salhie, and Reynolds] Mostafa Ali, Ayad Salhie, and Robert Reynolds. *Socio-Cultural Evolution via Neighborhood restructuring in Intricate Multi-Layered Networks*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3387–3394 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Almakhlafi and Knowles(2012)] Ahmad Almakhlafi and Joshua Knowles. *Benchmarks for Maintenance Scheduling Problems in Power Generation*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3464–3471 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Alsheddy and Kampouridis(2012)] Abdullah Alsheddy and Michael Kampouridis. *Off-line Parameter Tuning for Guided Local Search Using Genetic Programming*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 112–116 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Alvares et al.(2012)Alvares, Buarque, and Marwala] Marcos Alvares, Fernando Buarque, and Tshilidzi Marwala. *Optimizing Risk Management Using NSGA-II*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 477–484 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Amaral and Hruschka(2012)] Laurence Amaral and Estevam Hruschka. *Never-Ending Learning Principles in Gene Ontology Classification using Genetic Algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 676–683 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Anh et al.(2012)Anh, Luis, and Francisco] Han The Anh, Moniz Pereira Luis, and C. Santos Francisco. *Intention Recognition, Commitment and the Evolution of Cooperation*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2025–2032 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Arias-Montano et al.(2012)Arias-Montano, Coello Coello, and Mezura-Montes] Alfredo Arias-Montano, Carlos A. Coello Coello, and Efren Mezura-Montes. *Multi-Objective Airfoil Shape Optimization Using a Multiple-Surrogate Approach*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2178–2185 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Asafuddoula et al.(2012)Asafuddoula, Ray, Sarker, and Alam] Md Asafuddoula, Tapabrata Ray, Ruhul Sarker, and Khairul Alam. *An Adaptive Constraint Handling Approach Embedded MOEA/D*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2651–2658 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Ashlock and Ashlock(2012)] Daniel Ashlock and Wendy Ashlock. *Impact of Regulatory Genes On Optimization Behavior*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3403–3410 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Ashlock and McNicholas(2012)] Daniel Ashlock and Sharron McNicholas. *Single Parent Generalization of Cellular Automata Rules*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 263–270 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Atyabi et al.(2012a)Atyabi, Luerssen, Fitzgibbon, and Powers] Adham Atyabi, Martin Luerssen, Sean P. Fitzgibbon, and David M. W. Powers. *Adapting Subject-Independent Task-Specific EEG Feature Masks using PSO*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2155–2161 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Atyabi et al.(2012b)Atyabi, Luerssen, Fitzgibbon, and Powers] Adham Atyabi, Martin Luerssen, Sean P. Fitzgibbon, and David M. W. Powers. *Dimension Reduction in EEG Data using Particle Swarm Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2147–2154 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.

- [Atyabi et al.(2012c)Atyabi, Luerssen, Fitzgibbon, and Powers] Adham Atyabi, Martin Luerssen, Sean P. Fitzgibbon, and David M. W. Powers. *Evolutionary feature selection and electrode reduction for EEG classification*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 161–168 (Brisbane, Australia, 2012c). ISBN 0-7803-8515-2.
- [Au and Leung(2012)] Chun-Kit Au and Ho-Fung Leung. *Eigenspace sampling in the mirrored variant of  $(1,\lambda)$ -CMA-ES*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 871–878 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Avasarala and Bonissone(2012)] Viswanath Avasarala and Piero Bonissone. *iPresage: An innovative Patent Landscaping tool*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 372–378 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Balazs and Koczy(2012)] Krisztian Balazs and Laszlo T. Koczy. *Hybrid Bacterial Iterated Greedy Heuristics for the Permutation Flow Shop Problem*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1497–1504 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Balcar et al.(2012)Balcar, Pilat, and Neruda] Stepan Balcar, Martin Pilat, and Roman Neruda. *An Evolutionary Algorithm for 2D Semi-Guillotinable Circular Saw Cutting*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1908–1912 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Bansal et al.(2012)Bansal, Srivastava, and Srivastava] Richa Bansal, Kamal Srivastava, and Sanjay Srivastava. *A Hybrid Evolutionary Algorithm for the Cutwidth Minimization Problem*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2263–2270 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Barmada et al.(2012)Barmada, Raugi, and Tucci] Sami Barmada, Marco Raugi, and Mauro Tucci. *Global Optimization Algorithm Based on Self-Organizing Centroids*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1851–1856 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Bashir and Neville(2012a)] Hassan Bashir and Richard Neville. *Convergence Measurement in Evolutionary Computation using Price’s Theorem*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2559–2566 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Bashir and Neville(2012b)] Hassan Bashir and Richard Neville. *A Hybrid Evolutionary Computation Algorithm for Global Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2829–2836 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Baydin and de Mantaras(2012)] Atilim Gunes Baydin and Ramon Lopez de Mantaras. *Evolution of Ideas: A Novel Memetic Algorithm Based on Semantic Networks*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2774–2781 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Beer et al.(2012)Beer, Hendtlass, and Montgomery] Christopher Beer, Tim Hendtlass, and James Montgomery. *Improving Exploration in Ant Colony Optimisation with Antennation*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2944–2951 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Benedicic et al.(2012)Benedicic, Stular, and Korosec] Lucas Benedicic, Mitja Stular, and Peter Korosec. *Balancing downlink and uplink soft-handover areas in UMTS networks*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1002–1009 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Bhowmik et al.(2012)Bhowmik, Rakshit, Konar, Kim, and Nagar] Pavel Bhowmik, Pratyusha Rakshit, Amit Konar, Eunjin Kim, and Atulya K. Nagar. *DE-TDQL: An Adaptive Memetic Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2444–2451 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Bidlo and Vasicek(2012)] Michal Bidlo and Zdenek Vasicek. *Evolution of Cellular Automata Using Instruction-Based Approach*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2057–2064 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Bodas-Sagi et al.(2012)] Bodas-Sagi, Soltero, Hidalgo, Fernandez-Blanco, and de Vega] Diego Bodas-Sagi, Francisco J. Soltero, J. Ignacio Hidalgo, Pablo Fernandez-Blanco, and Francisco Fernandez de Vega. *A Technique for the optimization of the parameters of Technical Indicators with Multi-Objective Evolutionary Algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2493–2500 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Bonyadi and Michalewicz(2012)] Mohammad Reza Bonyadi and Zbigniew Michalewicz. *A Fast Particle Swarm Optimization Algorithm for the Multidimensional Knapsack Problem*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1402–1409 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Borges et al.(2012)] Borges, Ferrari, and de Castro] Ederson Borges, Daniel G. Ferrari, and Leandro N. de Castro. *Silhouette-Based Clustering using an Immune Network*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1768–1776 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Brabazon et al.(2012)] Brabazon, Silva, and O’Neill] Anthony Brabazon, Arlindo Silva, and Michael O’Neill. *Optimal Patent Design: An Agent-based Approach*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1102–1109 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Brest et al.(2012)] Brest, Boskovic, Zamuda, Fister, and Maucec] Janez Brest, Borko Boskovic, Ales Zamuda, Iztok Fister, and Mirjam Sepesy Maucec. *Self-Adaptive Differential Evolution Algorithm with a Small and Varying Population Size*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2868–2875 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Britto and Pozo(2012)] Andre Britto and Aurora Pozo. *Using Archiving Methods to Control Convergence and Diversity for Many-Objective Problems in Particle Swarm Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1646–1653 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Britto et al.(2012)] Britto, Neto, Rabelo, Ayala, and Soares] Ricardo Britto, Pedro Santos Neto, Ricardo Rabelo, Werney Ayala, and Thiago Soares. *A Hybrid Approach to Solve the Agile Team Allocation Problem*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3599–3606 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Bruck et al.(2012)] Bruck, Santos, and Arroyo] Bruno Bruck, Andre’ Santos, and Jose’ Arroyo. *Hybrid metaheuristic for the single vehicle routing problem with deliveries and selective pickups*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1913–1920 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Bui et al.(2012)] Bui, Bender, and Abbass] Vinh Bui, Axel Bender, and Hussein Abbass. *An Expressive GL-2 Grammar for Representing Story-like Scenarios*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2782–2789 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Buijs et al.(2012)] Buijs, van Dongen, and van der Aals] Joos Buijs, Boudewijn van Dongen, and Wil van der Aals. *A Genetic Algorithm for Discovering Process Trees*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1929–1936 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Bukhtoyarov and Semenkin(2012)] Vladimir Bukhtoyarov and Eugene Semenkin. *Neural Networks Ensemble Approach for Detecting Attacks in Computer Networks*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3078–3083 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Caamano et al.(2012)Caamano, Bellas, Becerra, Diaz, and Duro] Pilar Caamano, Francisco Bellas, Jose A. Becerra, Vicente Diaz, and Richard J. Duro. *Experimental Analysis of the Relevance of Fitness Landscape Topographical Characterization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3371–3378 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Cai et al.(2012)Cai, Hu, Das, and Welch] Xinye Cai, Zhenzhou Hu, Sanjoy Das, and Stephen Welch. *A Hierarchical Pareto Dominance based Multi-objective Approach for the Optimization of Gene Regulatory Network Models*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1737–1742 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Campomanes-Alvarez et al.(2012)Campomanes-Alvarez, Damas, and Cordon] B. Rosario Campomanes-Alvarez, Sergio Damas, and Oscar Cordon. *Mesh Simplification for 3D Modeling using Evolutionary Multi-Objective Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1364–1371 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Cancino et al.(2012)Cancino, Boukhelifa, and Lutton] Waldo Cancino, Nadia Boukhelifa, and Evelyne Lutton. *EvoGraphDice: Interactive Evolution for Visual Analytics*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2286–2293 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Cao et al.(2012)Cao, Recknagel, and Orr] Hongqing Cao, Friedrich Recknagel, and Philip T. Orr. *The Experimental Study of Population-based Parameter Optimization Algorithms on Rule-based Ecological Modelling*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3254–3261 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Carraro and de Castro(2012)] Luiz Antonio Carraro and Leandro Nunes de Castro. *A Clonal Selection Algorithm to Minimize Reshuffling in Container Stacking Operations*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1777–1784 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Castle and Johnson(2012)] Tom Castle and Colin Johnson. *Evolving Program Trees with Limited Scope Variable Declarations*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2250–2257 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Cepeda et al.(2012)Cepeda, Rueda, and Erlich] Jaime Cepeda, Jose Rueda, and Istvan Erlich. *Identification of Dynamic Equivalents based on Heuristic Optimization for Smart Grid Applications*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1168–1175 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Cervante et al.(2012)Cervante, Xue, Zhang, and Shang] Liam Cervante, Bing Xue, Mengjie Zhang, and Lin Shang. *Binary Particle Swarm Optimisation for Feature Selection: A Filter Based Approach*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1877–1884 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Chaari et al.(2012)Chaari, Koubaa, Bennaceur, Trigui, and Al-Shalfan] Imen Chaari, Anis Koubaa, Hachemi Bennaceur, Sahar Trigui, and Khaled Al-Shalfan. *smartPATH: A Hybrid ACO-GA Algorithm for Robot Path Planning*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 206–213 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Chakraborty et al.(2012)Chakraborty, Das, and Abbott] Uday Chakraborty, Sajal Das, and Travis Abbott. *Energy-Efficient Routing in Hierarchical Wireless Sensor Networks Using Differential-Evolution-Based Memetic Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3427–3434 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Chan et al.(2012)Chan, Ling, Nguyen, and Jiang] Kit Yan Chan, Sai Ho Ling, Hung Nguyen, and Frank Jiang. *A hypoglycemic episode diagnosis system based on neural networks for Type 1 diabetes mellitus*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 942–947 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Chang et al.(2012)Chang, Chin, Teo, and Mountstephens] Kee Tong Chang, Kim On Chin, Jason Teo, and James Mountstephens. *Game AI Generation using Evolutionary Multi-Objective Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 948–955 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Chen et al.(2012a)Chen, Liang, and Liu] Angela Hsiang-Ling Chen, Yun-Chia Liang, and Chia-Chien Liu. *An Artificial Bee Colony Algorithm for the Cardinality-Constrained Portfolio Optimization Problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2936–2943 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Chen et al.(2012b)Chen, Tsai, and Yang] Jui-Le Chen, Chun-Wei Tsai, and Chu-Sing Yang. *An Improved LGA for Protein-Ligand Docking Prediction*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 302–307 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Chen and Wang(2012)] Ming-Liang Chen and Feng-Sheng Wang. *Fuzzy optimization for a batch simultaneous saccharification and co-fermentation process by hybrid differential evolution*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2890–2897 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Chen and Gostoli(2012)] Shu-Heng Chen and Umberto Gostoli. *Coordination in the El Farol Bar Problem: The Role of Social Preferences and Social Networks*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1152–1159 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Chen(2012)] Stephen Chen. *Particle Swarm Optimization with pbest Crossover*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 540–545 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Chen et al.(2012c)Chen, Xudiera, and Montgomery] Stephen Chen, Carlos Xudiera, and James Montgomery. *Simulated Annealing with Threshold Convergence*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2537–2543 (Brisbane, Australia, 2012c). ISBN 0-7803-8515-2.
- [Cheng et al.(2012a)Cheng, Yao, Xue, and Shen] Ran Cheng, Min Yao, Xiaowei Xue, and Bin Shen. *Bisexual Evolution: A Novel Bisexual Evolutionary Framework Based on the Fisher’s Runaway Process*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1952–1959 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Cheng et al.(2012b)Cheng, Shi, and Qin] Shi Cheng, Yuhui Shi, and Quande Qin. *Dynamical Exploitation Space Reduction in Particle Swarm Optimization for Solving Large Scale Problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3023–3030 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Cheng et al.(2012c)Cheng, Shi, and Qin] Shi Cheng, Yuhui Shi, and Quande Qin. *Particle Swarm Optimization based Semi-Supervised Learning on Chinese Text Categorization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3176–3183 (Brisbane, Australia, 2012c). ISBN 0-7803-8515-2.
- [Cheng et al.(2012d)Cheng, Shi, and Qin] Shi Cheng, Yuhui Shi, and Quande Qin. *Population Diversity Based Study on Search Information Propagation in Particle Swarm Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 562–569 (Brisbane, Australia, 2012d). ISBN 0-7803-8515-2.
- [Cheung et al.(2012)Cheung, Valdes, and Li] Catherine Cheung, Julio J. Valdes, and Matthew Li. *Use of evolutionary computation techniques for exploration and prediction of helicopter loads*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1130–1137 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Chikumbo et al.(2012)Chikumbo, Goodman, and Deb] Oliver Chikumbo, Erik Goodman, and Kalyanmoy Deb. *Approximating a multi-dimensional Pareto front for a land use management problem: A modified MOEA with an epigenetic silencing metaphor*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1529–1537 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Chiong and Kirley(2012)] Raymond Chiong and Michael Kirley. *The Evolution of Cooperation via Stigmergic Interactions*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2017–2024 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Chira et al.(2012)Chira, Gog, and Iclanzan] Camelia Chira, Anca Gog, and David Iclanzan. *Evolutionary Detection of Community Structures in Complex Networks: a New Fitness Function*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2365–2372 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Ch'ng and Teo(2012)] Siong Huat Ch'ng and Jason Teo. *Online Evolution of Offensive Strategies in Real-Time Strategy Gaming*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 100–107 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Chow and Yuen(2012)] Chi Kin Chow and Shiu Yin Yuen. *Continuous Non-revisiting Genetic Algorithm with Overlapped Search Sub-Region*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2975–2982 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Chowdhury et al.(2012)Chowdhury, Chetty, and Vinh] Ahsan Chowdhury, Madhu Chetty, and Nguyen Vinh. *Adaptive Regulatory Genes Cardinality for Reconstructing Genetic Networks*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1285–1292 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Ciesielski et al.(2012)Ciesielski, Lam, and Nguyen] Vic Ciesielski, Brian Lam, and Minh Luan Nguyen. *Comparison of Evolutionary and Conventional Feature Extraction Methods for Malt Classification*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1349–1355 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Coelho et al.(2012)Coelho, Wanner, Souza, Carrano, and Purshouse] Dayanne G Coelho, Elizabeth F Wanner, Sergio R Souza, Eduardo G Carrano, and Robin C Purshouse. *A Multiobjective Evolutionary Algorithm for the 2D Guillotine Strip Packing Problem*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2009–2016 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Conesa-Munoz et al.(2012)Conesa-Munoz, Ribeiro, Andujar, Fernandez-Quintanilla, and Dorado] Jesus Conesa-Munoz, Angela Ribeiro, Dionisio Andujar, Cesar Fernandez-Quintanilla, and Jose Dorado. *Multi-Path Planning Based on a NSGA-II for a Fleet of Robots to Work on Agricultural Tasks*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 648–655 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Conti et al.(2012)Conti, Roisenberg, and Neto] Cassio Rodrigo Conti, Mauro Roisenberg, and Guenther Schwedersky Neto. *ACOR-V - an Algorithm that Incorporates the Visibility Heuristic to the ACO in Continuous Domain*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2952–2959 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Couckuyt et al.(2012)Couckuyt, Deschrijver, and Dhaene] Ivo Couckuyt, Dirk Deschrijver, and Tom Dhaene. *Towards Efficient Multiobjective Optimization: Multiobjective Statistical Criteria*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2485–2492 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Cussat-Blanc et al.(2012)Cussat-Blanc, Sanchez, and Duthen] Sylvain Cussat-Blanc, Stephane Sanchez, and Yves Duthen. *Simultaneous cooperative and conflicting behaviors handled by a Gene Regulatory Network*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1037–1044 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Dahlstedt(2012)] Palle Dahlstedt. *Turn-Based Evolution as a Proposed Implementation of Artistic Creative Process*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2637–2643 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Daniels et al.(2012)] Benjamin Daniels, Steven Corns, and Elizabeth Cudney. *A Comparison of Representations for the Prediction of Ground-Level Ozone Concentration*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2694–2701 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Dao et al.(2012)] Dao, Quang Uy Nguyen, Xuan Hoai Nguyen, and McKay] Ngoc Phong Dao, Quang Uy Nguyen, Xuan Hoai Nguyen, and R I (Bob) McKay. *Evolving Approximations for the Gaussian Q-function by Genetic Programming with Semantic Based Crossover*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2515–2520 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Datta et al.(2012)] Datta, Bittermann, Deb, and Ciftcioglu] Rituparna Datta, Michael S. Bittermann, Kalyanmoy Deb, and Ozer Ciftcioglu. *Probabilistic Constraint Handling in the Framework of Joint Evolutionary-Classical Optimization with Engineering Applications*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 757–764 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Datta and Deb(2012)] Rituparna Datta and Kalyanmoy Deb. *An Adaptive Normalization based Constrained Handling Methodology with Hybrid Bi-Objective and Penalty Function Approach*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3137–3144 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [de Armas et al.(2012)] de Armas, Gonzalez, Miranda, and Leon] Jesica de Armas, Yanira Gonzalez, Gara Miranda, and Coromoto Leon. *Parallelization of the Multi-Objective Container Loading Problem*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 37–44 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [De Weerd et al.(2012)] De Weerd, vanden Broucke, Vanthienen, and Baesens] Jochen De Weerd, Seppe vanden Broucke, Jan Vanthienen, and Bart Baesens. *Leveraging Process Discovery with Trace Clustering and Text Mining for Intelligent Analysis of Incident Management Processes*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1921–1928 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Deb and Jain(2012)] Kalyanmoy Deb and Himanshu Jain. *Handling Many-Objective Problems Using an Improved NSGA-II Procedure*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 342–349 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Deep et al.(2012a)] Deep, Chauhan, and Pant] Kusum Deep, Pinkey Chauhan, and Millie Pant. *Multi Task Selection including Part Mix, Tool Allocation and Process Plans in CNC Machining Centers using New Binary PSO*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1823–1830 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Deep et al.(2012b)] Deep, Chauhan, and Pant] Kusum Deep, Pinkey Chauhan, and Millie Pant. *Totally Disturbed Chaotic Particle Swarm Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1577–1584 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Dias and Pacheco(2012)] Douglas Dias and Marco Aurelio Pacheco. *Describing Quantum-Inspired Linear Genetic Programming from Symbolic Regression Problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 907–914 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Dick(2012)] Grant Dick. *Niche Allocation in Spatially-Structured Evolutionary Algorithms with Gradients*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2210–2217 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.



- [Dorrnsoro and Bouvry(2012)] Bernabe Dorrnsoro and Pascal Bouvry. *Study of Different Small-world Topology Generation Mechanisms for Genetic Algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2226–2233 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Dower(2012)] Steve Dower. *Automatic Implementation of Evolutionary Algorithms on GPUs using ESDL*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3411–3418 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Dridi et al.(2012)]Dridi, Krichen, and Guitouni] Olfa Dridi, Saoussen Krichen, and Adel Guitouni. *A Multi-Objective Optimization Approach for Resource Assignment and Task Scheduling Problem: Application to Maritime Domain Awareness*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 469–476 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Duhain and Engelbrecht(2012)] Julien Duhain and Andries Engelbrecht. *Towards a More Complete Classification System for Dynamically Changing Environments*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2742–2749 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Duma et al.(2012)]Duma, Twala, Marwala, and Nelwamondo] Mlungisi Duma, Bhakisipho Twala, Tshilidzi Marwala, and Fulufhelo Nelwamondo. *Classification with Missing Data using Multi-Layered Artificial Immune Systems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1687–1694 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [El-Abd(2012)] Mohammed El-Abd. *Generalized Opposition-Based Artificial Bee Colony Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3052–3055 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [El-Abd and Kamel(2012)] Mohammed El-Abd and Mohamed Kamel. *Particle Swarm Optimization with Adaptive Bounds*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 169–174 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [El-Bouri(2012)] Ahmed El-Bouri. *An Investigation of Initial Solutions on the Performance of an Iterated Local Search Algorithm for the Permutation Flowshop*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2258–2262 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Elsayed et al.(2012a)]Elsayed, Sarker, and Essam] Saber Elsayed, Ruhul Sarker, and Daryl Essam. *Memetic Multi-Topology Particle Swarm Optimizer for Constrained Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1379–1386 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Elsayed et al.(2012b)]Elsayed, Sarker, and Ray] Saber Elsayed, Ruhul Sarker, and Tapabrata Ray. *Parameters Adaptation in Differential Evolution*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1138–1145 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Engelbrecht(2012)] Andries Engelbrecht. *Particle Swarm Optimization: Velocity Initialization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1410–1417 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Epitropakis et al.(2012a)]Epitropakis, Plagianakos, and Vrahatis] Michael Epitropakis, Vassilis Plagianakos, and Michael Vrahatis. *Multimodal Optimization Using Niching Differential Evolution with Index-based Neighborhoods*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2065–2072 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Epitropakis et al.(2012b)]Epitropakis, Tasoulis, Pavlidis, Plagianakos, and Vrahatis] Michael Epitropakis, Dimitris Tasoulis, Nicos Pavlidis, Vassilis Plagianakos, and Michael Vrahatis. *Tracking Particle Swarm Optimizers: An adaptive approach through multinomial distribution*

- tracking with exponential forgetting.* In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1712–1719 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Ernst and Singh(2012)] Andreas Ernst and Gaurav Singh. *Lagrangian Particle Swarm Optimization for a Resource Constrained Machine Scheduling Problem.* In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1585–1592 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Esteves et al.(2012)Esteves, Sousa, Silva, Povoia, and Gomes] Vasco M.C. Esteves, Joao M.C. Sousa, Carlos A. Silva, Ana P. B. Povoia, and Maria Isabel Gomes. *SCant-Design: Closed Loop Supply Chain Design using Ant Colony Optimization.* In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3056–3063 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Faccioli et al.(2012)Faccioli, Nunes da Silva, Bortot, and Delbem] Rodrigo Faccioli, Ivan Nunes da Silva, Leandro Bortot, and Alexandre Delbem. *A Mono-Objective Evolutionary Algorithm with GROMACS for Protein Structure Prediction in Structural and Energetic Contexts.* In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 900–906 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Fajfar(2012)] Iztok Fajfar. *Selection Strategies and Random Perturbations in Differential Evolution.* In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1836–1842 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Falcon and Abielmona(2012)] Rafael Falcon and Rami Abielmona. *A Response-Aware Risk Management Framework for Search-and-Rescue Operations.* In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1333–1340 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Fang et al.(2012a)Fang, Sun, Wu, Xu, and Vasile] Wei Fang, Jun Sun, Xiaojun Wu, Wenbo Xu, and Palade Vasile. *Study on the Compression-Expansion Coefficient in Drift Particle Swarm Optimization.* In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 857–862 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Fang et al.(2012b)Fang, Kocejka, Zhan, Dozier, and Dipankar] Xing Fang, Nicholas Kocejka, Justin Zhan, Gerry Dozier, and Dasgupta Dipankar. *An Artificial Immune System for Phishing Detection.* In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 392–398 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Feng et al.(2012)Feng, Ong, Tsang, and Tan] Liang Feng, Yew Soon Ong, Ivor Tsang, and Ah Hwee Tan. *An Evolutionary Search Paradigm that Learns with Past Experiences.* In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2813–2820 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Feng and Song(2012)] Xie Feng and Andy Song. *Evolving Frame Splitters by Genetic Programming.* In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1466–1472 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Ficici et al.(2012)Ficici, Liu, and Fogel] Sevan G. Ficici, Enoch Liu, and Gary B. Fogel. *Evolutionary Algorithms for Supertree Search.* In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1293–1300 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Filipic and Lorencin(2012)] Bogdan Filipic and Ivan Lorencin. *Evolutionary Multiobjective Design of an Alternative Energy Supply System.* In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 257–262 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Fister et al.(2012)Fister, Fister, Jr., Brest, and Zumer] Iztok Fister, Iztok Fister, Jr., Janez Brest, and Viljem Zumer. *Memetic Artificial Bee Colony Algorithm for Large-Scale Global Optimization.* In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3015–3022 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Fonseca et al.(2012)Fonseca, Barbosa, and Lemonge] Leonardo Fonseca, Helio Barbosa, and Afonso Lemonge. *A study on fitness inheritance for enhanced efficiency in real-coded genetic algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 71–78 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Forghany et al.(2012)Forghany, Davarynejad, and Snaar-Jagalska] Zary Forghany, Mohsen Davarynejad, and Ewa Snaar-Jagalska. *Gene Regulatory Network Model Identification Using Artificial Bee Colony and Swarm Intelligence*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1272–1277 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Fu et al.(2012a)Fu, Sendhoff, Tang, and Yao] Haobo Fu, Bernhard Sendhoff, Ke Tang, and Xin Yao. *Characterizing Environmental Changes in Robust Optimization Over Time*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1593–1600 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Fu et al.(2012b)Fu, Johnston, and Zhang] Wenlong Fu, Mark Johnston, and Mengjie Zhang. *Genetic Programming for Edge Detection via Balancing Individual Training Images*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2702–2709 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Fu et al.(2012c)Fu, Johnston, and Zhang] Wenlong Fu, Mark Johnston, and Mengjie Zhang. *Soft Edge Maps From Edge Detectors Evolved by Genetic Programming*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1356–1363 (Brisbane, Australia, 2012c). ISBN 0-7803-8515-2.
- [Gagne and Zinflou(2012)] Caroline Gagne and Arnaud Zinflou. *An hybrid algorithm for the industrial car sequecing problem*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 279–286 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Gagne and Congdon(2012)] David J. Gagne and Clare Bates Congdon. *Preliminary Results for GAMMI: Genetic Algorithms for Motif-Module Inference*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1309–1316 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Gao et al.(2012)Gao, Suganthan, and Bao] Kaizhou Gao, Ponnuthurai Nagarathnam Suganthan, and Zhenqiang Bao. *A composite heuristic for the no-wait flow shop scheduling*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1125–1129 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Ghosh et al.(2012a)Ghosh, Chowdhury, Sinha, Vasilakos, and Das] Arnab Ghosh, Arkabandhu Chowdhury, Subhajit Sinha, Athanasios V. Vasilakos, and Swagatam Das. *A Genetic lbest PSO with Dynamically Varying Subswarm topology*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 669–675 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Ghosh et al.(2012b)Ghosh, Ghosh, Chowdhury, Konar, Kim, and Nagar] Avishek Ghosh, Arnab Ghosh, Arkabandhu Chowdhury, Amit Konar, Eunjin Kim, and Atulya K. Nagar. *Linear Phase Low Pass FIR Filter Design Using Genetic Particle Swarm Optimization with Dynamically Varying Neighborhood Technique*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1570–1576 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Goh et al.(2012)Goh, Tang, Peto, and Saleh] Jonathan Goh, Lilian Tang, Tunde Peto, and George Saleh. *An Evolutionary Approach for Determining Hidden Markov Model for Medical Image Analysis*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3511–3518 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Gong et al.(2012a)Gong, Yang, Sun, and Li] Dunwei Gong, Lei Yang, Xiaoyan Sun, and Ming Li. *Applying knowledge of users with similar preference to construct surrogate models of IGAs*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3168–3175 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.

- [Gong et al.(2012b)Gong, Cai, Li, and Ma] Maoguo Gong, Qing Cai, Yangyang Li, and Jingjing Ma. *An Improved Memetic Algorithm for Community Detection in Complex Networks*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3347–3354 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Gong and Shuai(2012)] Tao Gong and Lan Shuai. *A Cross-Model Study on the Effect of Power-Laws on Language Evolution*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3286–3293 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Greenwood and Ashlock(2012)] Garrison Greenwood and Daniel Ashlock. *Evolutionary Games and the Study of Cooperation: Why Has So Little Progress Been Made?* In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1207–1214 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Grobler et al.(2012)Grobler, Engelbrecht, Kendall, and Yadavalli] Jacomine Grobler, Andries P. Engelbrecht, Graham Kendall, and Sarma Yadavalli. *Investigating the Use of Local Search for Improving Meta-Hyper-Heuristic Performance*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3324–3331 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Gruenewald et al.(2012)Gruenewald, Hardt, Mielke, and Brueck] Armin Gruenewald, Simon Hardt, Matthias Mielke, and Rainer Brueck. *A decentralized Charge Management for Electric Vehicles using a Genetic Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3519–3525 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [guan Wang et al.(2012)guan Wang, biao Ling, Zhang, and ping Wang] Wen guan Wang, Ying biao Ling, Jun Zhang, and Yu ping Wang. *Ant Colony Optimization Algorithm for Analog Filter Design*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3072–3077 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Guderian et al.(2012a)Guderian, Schaffer, and Fettweis] Falko Guderian, Rainer Schaffer, and Gerhard Fettweis. *Administration- and Communication-Aware IP Core Mapping in Scalable Multiprocessor System-on-Chips via Evolutionary Computing*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1434–1441 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Guderian et al.(2012b)Guderian, Schaffer, and Fettweis] Falko Guderian, Rainer Schaffer, and Gerhard Fettweis. *Dimensioning the Heterogeneous Multicenter Architecture via Parallelism Analysis and Evolutionary Computing*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1426–1433 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Gunnarsen et al.(2012)Gunnarsen, Smith-Miles, and Lee] Sverre Gunnarsen, Kate Smith-Miles, and Vincent Lee. *Towards Objective Data Selection in Bankruptcy Prediction*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 9–16 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Guo et al.(2012)Guo, neng Chen, and Zhang] Yu Guo, Wei neng Chen, and Jun Zhang. *Enhancing the Performance of Evolutionary Algorithms—A Novel Maturity-Based Adaptation Strategy*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 570–577 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Hadka et al.(2012)Hadka, Reed, and Simpson] David Hadka, Patrick Reed, and Timothy Simpson. *Diagnostic Assessment of the Borg MOEA for Many-Objective Product Family Design Problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1975–1984 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Hamza et al.(2012)Hamza, Sarker, and Essam] Noha Hamza, Ruhul Sarker, and Daryl Essam. *Differential Evolution with a mix of Constraint Consensus Methods for Solving a Real-World Optimization Problem*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1118–1124 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Hanada et al.(2012)Hanada, Hosokawa, Ono, and Muneyasu] Yoshiko Hanada, Nagahiro Hosokawa, Keiko Ono, and Mitsuji Muneyasu. *Effectiveness of Multi-step Crossover Fusions in Genetic Programming*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2389–2396 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Hancer et al.(2012)Hancer, Ozturk, and Karaboga] Emrah Hancer, Celal Ozturk, and Dervis Karaboga. *Artificial Bee Colony Based Image Clustering*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2926–2930 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Handa(2012)] Hisashi Handa. *Use of Graph Kernels in Estimation of Distribution Algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3563–3568 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Hanif and Smith(2012)] Ayub Hanif and Robert Smith. *Generation Path-Switching in Sequential Monte-Carlo Methods*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1045–1051 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Hardhienata et al.(2012)Hardhienata, Merrick, and Ugrinovskii] Medria Hardhienata, Kathryn Merrick, and Valeri Ugrinovskii. *Task Allocation in Multi-Agent Systems using Models of Motivation and Leadership*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1418–1425 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Haynes et al.(2012)Haynes, Corns, and Venayagamoorthy] David Haynes, Steven Corns, and Ganesh Venayagamoorthy. *An Exponential Moving Average Algorithm: Evolutionary Algorithms Applied to Sudoku Puzzles*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3214–3221 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [He and Yen(2012)] Zhenan He and Gary Yen. *A New Fitness Evaluation Method Based on Fuzzy Logic in Multiobjective Evolutionary Algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 439–446 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Helbig and Engelbrecht(2012)] Marde Helbig and Andries Engelbrecht. *Analyses of Guide Update Approaches for Vector Evaluated Particle Swarm Optimisation on Dynamic Multi-Objective Optimisation Problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2726–2733 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Hendtlass(2012)] Tim Hendtlass. *Restarting Particle Swarm Optimisation*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1720–1728 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Herbawi and Weber(2012a)] Wesam Herbawi and Michael Weber. *A Genetic Local Search Algorithm for Multiobjective Time-dependent Route Planning*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 137–143 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Herbawi and Weber(2012b)] Wesam Herbawi and Michael Weber. *The ridematching problem with time windows in dynamic ridesharing: A model and a genetic algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3547–3554 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Higgs et al.(2012)Higgs, Stantic, Hoque, and Sattar] Trent Higgs, Bela Stantic, Tamjidul Hoque, and Abdul Sattar. *Refining Genetic Algorithm Twin Removal for High-Resolution Protein Structure Prediction*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 182–189 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Hingston et al.(2012)Hingston, Masek, and Beard] Philip Hingston, Martin Masek, and Daniel Beard. *Using Monte Carlo Tree Search for Replanning in a Multistage Simultaneous Game*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1231–1238 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Hong et al.(2012)Hong, Lin, and Chen] Tzung-Pei Hong, Feng-Shih Lin, and Chun-Hao Chen. *Using the Group Genetic Algorithm for Attribute Clustering*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 923–927 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Hsiao et al.(2012a)Hsiao, Chiang, and Fu] Ping-Che Hsiao, Tsung-Che Chiang, and Li-Chen Fu. *Particle Swarm Optimization for the Minimum Energy Broadcast Problem in Wireless Ad-Hoc Networks*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3100–3107 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Hsiao et al.(2012b)Hsiao, Chiang, and Fu] Ping-Che Hsiao, Tsung-Che Chiang, and Li-Chen Fu. *A VNS-based Hyper-heuristic with Adaptive Computational Budget of Local Search*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3316–3323 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Hsu and Chiang(2012)] Wei-Huai Hsu and Tsung-Che Chiang. *A Multiobjective Evolutionary Algorithm with Enhanced Reproduction Operators for the Vehicle Routing Problem with Time Windows*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2750–2757 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Huang et al.(2012a)Huang, Xu, Deng, Venkataramanan, and Tuong] Deqing Huang, Jian-Xin Xu, Xin Deng, Venkatakrishnan Venkataramanan, and Huynh The Cat Tuong. *GA Based High-Order Peak Filter Design With Application to Compensation of Contact-Induced Vibration in HDD Servo Systems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3435–3442 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Huang et al.(2012b)Huang, Ong, and Chen] Hsueh En Huang, Yew-Soon Ong, and Xianshun Chen. *Autonomous Flock Brush for Non-Photorealistic Rendering*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2597–2604 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Hui and Suganthan(2012)] Sheldon Hui and Ponnuthurai Nagaratnam Suganthan. *Ensemble Differential Evolution with Dynamic Subpopulations and Adaptive Clearing for solving Dynamic Optimization Problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2629–2636 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [hui Zhan et al.(2012)hui Zhan, Zhang, hui Shi, and Hai-lin] Zhi hui Zhan, Jun Zhang, Yu hui Shi, and Liu Hai-lin. *A Modified Brain Storm Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2544–2551 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Hunt et al.(2012)Hunt, Neshatian, and Zhang] Rachel Hunt, Kourosh Neshatian, and Mengjie Zhang. *Scalability Analysis of Genetic Programming Classifiers*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 509–516 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Huo et al.(2012a)Huo, Lien, Yu, and Sun] Chih-Li Huo, Yean-Shain Lien, Yu-Hsiang Yu, and Tsung-Ying Sun. *Effectively Multi-Swarm Sharing Management for Differential Evolution*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2798–2805 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Huo et al.(2012b)Huo, Lin, Lai, Lien, and Sun] Chih-Li Huo, Shu-Yan Lin, Tzu-Ying Lai, Yean-Shain Lien, and Tsung-Ying Sun. *Multi-Objective Differential Evolution with Taguchi-based Adjustable Proportional Distribution*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2194–2201 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Hussein and Petering(2012)] Mazen Hussein and Matthew Petering. *Genetic Algorithm-Based Simulation Optimization of Stacking Algorithms for Yard Cranes to Reduce Fuel Consumption at Seaport Container Transshipment Terminals*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1993–2000 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Iclanzan and Chira(2012)] David Iclanzan and Camelia Chira. *Modeling and Replicating Higher-Order Dependencies in Genetic Algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 863–870 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Ishibuchi et al.(2012a)] Ishibuchi, Hoshino, and Nojima] Hisao Ishibuchi, Koichiro Hoshino, and Yusuke Nojima. *Evolution of Strategies in a Spatial IPD Game with a Number of Different Representation Schemes*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1215–1222 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Ishibuchi et al.(2012b)] Ishibuchi, Hoshino, and Nojima] Hisao Ishibuchi, Koichiro Hoshino, and Yusuke Nojima. *Strategy Evolution in a Spatial IPD Game where Each Agent is not Allowed to Play against Itself*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1191–1198 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Izadinia and Ebadzadeh(2012)] Hamid Izadinia and Mohammad Mehdi Ebadzadeh. *Adaptive Quantum-Inspired Evolution Strategy*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1760–1767 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Jaros(2012)] Jiri Jaros. *Multi-GPU Island-Based Genetic Algorithm for Solving the Knapsack Problem*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 236–243 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Jati et al.(2012)] Jati, Singh, Rakshit, Konar, Kim, and Nagar] Arindam Jati, Garima Singh, Pratyusha Rakshit, Amit Konar, Eunjin Kim, and Atulya K. Nagar. *A Hybridisation of Improved Harmony Search and Bacterial Foraging for Multi-robot Motion Planning*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 431–438 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Jevne et al.(2012)] Jevne, Haddow, and Gaivoronski] Haken Jevne, Pauline Haddow, and Alexei Gaivoronski. *Evolving Constrained mean-VaR Efficient Frontiers*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1079–1086 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Ji et al.(2012)] Ji, Tian, Zhu, and He] Zhen Ji, Tao Tian, Zexuan Zhu, and Shan He. *A Memory Binary Particle Swarm Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1831–1835 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Jianchao and Min(2012)] Fan Jianchao and Han Min. *Nonlinear Model Predictive Control of Ball-Plate System based on Gaussian Particle Swarm Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3116–3121 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Jiang et al.(2012)] Jiang, Tsai, Hao, and Cao] Yunzhi Jiang, Pohsiang Tsai, Zhifeng Hao, and Longbing Cao. *A Novel Auto-Parameters Selection Process For Image Segmentation*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2666–2672 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [jiao Gong and Zhang(2012)] Yue jiao Gong and Jun Zhang. *Real-Time Traffic Signal Control for Roundabouts by Using a Novel PSO-based Fuzzy Controller*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 771–778 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Jin and Liang(2012)] Qin Jin and Zhenjun Liang. *A Naive Particle Swarm Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 29–36 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Johnson(2012)] Colin Johnson. *Search-based Evolutionary Operators for Extensionally-defined Search Spaces: Applications to Image Search*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2279–2285 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Jones et al.(2012)Jones, Lovell, Gunn, Morgan, and Zauner] Gareth Jones, Chris Lovell, Steve Gunn, Hywel Morgan, and Klaus-Peter Zauner. *Enabling the Discovery of Computational Characteristics of Enzyme Dynamics*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2452–2459 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Jordan and Kroeger(2012)] Claire Diora Jordan and Trent Kroeger. *An Evolutionary Algorithm for Bilevel Optimisation of Men’s Team Pursuit Track Cycling*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2325–2332 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Juan et al.(2012)Juan, Han-wu, Zhihao, Yue, and Wanning] Xu Juan, Chen Han-wu, Liu Zhihao, Ruan Yue, and Zhu Wanning. *Quantum secret sharing without exclusive OR of qubits’ measuring results*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1675–1678 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Junior et al.(2012)Junior, Britto, and Pozo] Olacir Castro Junior, Andre Britto, and Aurora Pozo. *A Comparison of Methods for Leader Selection in Many-Objective Problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1654–1661 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Kafafy et al.(2012)Kafafy, Bounekkar, and Bonnevey] Ahmed Kafafy, Ahmed Bounekkar, and Stephane Bonnevey. *Hybrid Metaheuristics based on MOEA/D for 0/1 Multiobjective Knapsack Problems: A comparative study*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3300–3307 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Kampouridis et al.(2012)Kampouridis, Glover, Shaghaghi, and Tsang] Michael Kampouridis, Tim Glover, Ali Rais Shaghaghi, and Edward Tsang. *Using a Genetic Algorithm as a Decision Support Tool for the Deployment of Fiber Optic Networks*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3585–3592 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Karabulut and Tasgetiren(2012)] Korhan Karabulut and M. Fatih Tasgetiren. *A Discrete Artificial Bee Colony Algorithm for the Traveling Salesman Problem with Time Windows*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3038–3044 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Kattan and Galvan(2012)] Ahmed Kattan and Edgar Galvan. *Evolving Radial Basis Function Networks via GP for Estimating Fitness Values using Surrogate Models*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3161–3167 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Kelly et al.(2012)Kelly, Lichodziejewski, and Heywood] Stephen Kelly, Peter Lichodziejewski, and Malcolm I. Heywood. *On Run Time Libraries and Hierarchical Symbiosis*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3278–3285 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Khadem et al.(2012)Khadem, Chan, and Dillon] Saghar Khadem, Kit Yan Chan, and Tharam Dillon. *Optimization of neural network configurations for short-term traffic flow forecasting using orthogonal design*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1184–1190 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Kim et al.(2012)Kim, McKay, and Nguyen Xuan Hoai] Kangil Kim, Bob (R.I) McKay, and Nguyen Xuan Hoai. *Implicit Bias in Grammar-based Estimation of Distribution Genetic Programming: The Effects of Recursive Structure*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2373–2380 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Knittel(2012)] Anthony Knittel. *Learning Feature Hierarchies under Reinforcement*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2420–2427 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.



- [Ko et al.(2012)Ko, Reddy, Kumar, Garg, Bailey, and Hadaegh] Gene M. Ko, A. Srinivas Reddy, Sunil Kumar, Rajni Garg, Barbara A. Bailey, and Ahmad R. Hadaegh. *Differential Evolution-Binary Particle Swarm Optimization Algorithm for the Analysis of Aryl Beta-Diketo Acids for HIV-1 Integrase Inhibition*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1278–1284 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Koloseni et al.(2012)Koloseni, Lampinen, and Luukka] David Koloseni, Jouni Lampinen, and Pasi Luukka. *Differential Evolution Classifier with Optimized Distance Measures from a Pool of Distances*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2806–2812 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Korosec and Silc(2012)] Peter Korosec and Jurij Silc. *The Continuous Differential Ant-Stigmergy Algorithm Applied to Dynamic Optimization Problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 447–454 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Kou et al.(2012)Kou, Xiong, Fang, Zong, and Bian] Jialiang Kou, Shengwu Xiong, Zhixiang Fang, Xinlu Zong, and Feifei Bian. *Positive Point Charge Potential Field based ACO algorithm for Multi-objective Evacuation Routing Optimization Problem*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3064–3071 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Kovarik and Kordik(2012)] Oleg Kovarik and Pavel Kordik. *Max-Min Ant System with Linear Memory Complexity*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 322–326 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Kroetz et al.(2012)Kroetz, Centeno, Delgado, Dorini, Fylyk, Vieira, Lucas, and Felisberto] Marcel Kroetz, Tania Centeno, Myriam Delgado, Leyza Dorini, Vitor Fylyk, Allan Vieira, Luis Lucas, and Marcelo Felisberto. *Genetic Algorithms to Automatic Weld Bead Detection in Double Wall Double Image Digital Radiographs*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 578–584 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Kromer et al.(2012)Kromer, Snasel, Platos, Kudelka, and Horak] Pavel Kromer, Vaclav Snasel, Jan Platos, Milos Kudelka, and Zdenek Horak. *An ACO Inspired Weighting Approach for the Spectral Partitioning of Co-authorship Networks*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3659–3665 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Kudo and Yoshikawa(2012)] Fumiya Kudo and Tomohiro Yoshikawa. *Knowledge Extraction in Multi-objective Optimization Problem based on Visualization of Pareto Solutions*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1871–1876 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Kumar and Pant(2012)] Pravesh Kumar and Millie Pant. *Enhanced Mutation Strategy for Differential Evolution*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2884–2889 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Lacroix et al.(2012)Lacroix, Molina, and Herrera] Benjamin Lacroix, Daniel Molina, and Francisco Herrera. *Region based memetic algorithm with LS chaining*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 386–391 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Lakshika et al.(2012)Lakshika, Barlow, and Easton] Erandi Lakshika, Michael Barlow, and Adam Easton. *Fidelity and Complexity of Standing Group Conversation Simulations: A Framework for the Evolution of Multi Agent Systems through Bootstrapping Human Aesthetic Judgments*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2033–2040 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Lam et al.(2012)Lam, Li, and Wei] Albert Y.S. Lam, Victor O.K. Li, and Zhao Wei. *Chemical Reaction Optimization for the Fuzzy Rule Learning Problem*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3084–3091 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [LaTorre et al.(2012)LaTorre, Muelas, and Pena] Antonio LaTorre, Santiago Muelas, and Jose-Maria Pena. *Multiple Offspring Sampling in Large Scale Global Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 964–971 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Lattarulo and Parks(2012)] Valerio Lattarulo and Geoffrey T. Parks. *A Preliminary Study of a new Multi-objective Optimization Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1793–1800 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Le et al.(2012)Le, Ong, Menzel, Seah, and Sendhoff] Minh Nghia Le, Yew Soon Ong, Stefan Menzel, Chun-Wei Seah, and Bernhard Sendhoff. *Multi Co-objective Evolutionary Optimization: Cross Surrogate Augmentation for Computationally Expensive Problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2911–2918 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Lee et al.(2012a)Lee, Gonzalez, Jacques, and Bugeda] Dongseop Lee, Luis Felipe Gonzalez, Periaux Jacques, and Gabriel Bugeda. *Multi-Objective Design Optimization of Morphing UAV Aerofoil/Wing Using Hybridised MOGA*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1743–1750 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Lee et al.(2012b)Lee, An, and Oh] Lae-Kyoung Lee, Su-Yong An, and Se-Young Oh. *Robust Fingertip Extraction with Improved Skin Color Segmentation for Finger Gesture Recognition in Human-Robot Interaction*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 45–51 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Lee and Cho(2012)] Myeong-Chun Lee and Sung-Bae Cho. *Interactive Differential Evolution for Image Enhancement Application in Smart Phone*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 887–892 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Legillon et al.(2012)Legillon, Liefoghe, and Talbi] Francois Legillon, Arnaud Liefoghe, and El-Ghazali Talbi. *CoBRA: A Cooperative Coevolutionary Algorithm for Bi-level Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 735–742 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Lehmann and Menzel(2012)] Henry Lehmann and Stefan Menzel. *Evolvability as Concept for the Optimal Design of Free-Form Deformation Control Volumes*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 517–524 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Leitao et al.(2012)Leitao, Pereira, and Machado] Antonio Leitao, Francisco B. Pereira, and Penousal Machado. *Enhancing Cluster Geometry Optimization with Island Models*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2218–2225 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Lemonge et al.(2012)Lemonge, Barbosa, and Bernardino] Afonso Lemonge, Helio Barbosa, and Heder Bernardino. *A Family of Adaptive Penalty Schemes for Steady-state Genetic Algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1554–1561 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Lepagnot et al.(2012)Lepagnot, Nakib, Oulhadj, and Siarry] Julien Lepagnot, Amir Nakib, Hamouche Oulhadj, and Patrick Siarry. *A Dynamic Multi-Agent Algorithm Applied to Challenging Benchmark Problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2621–2628 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Leung et al.(2012)Leung, Zhang, and Yuen] Shing Wa Leung, Xin Zhang, and Shiu Yin Yuen. *Multiobjective Differential Evolution Algorithm with Opposition-Based Parameter Control*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 849–856 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Li et al.(2012a)Li, Li, Mabu, and Hirasawa] Bing Li, Xianneng Li, Shingo Mabu, and Kotaro Hirasawa. *Towards Automatic Discovery and Reuse of Subroutines in Variable Size Genetic Network Programming*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 485–492 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Li et al.(2012b)Li, Yang, and Yang] Changhe Li, Shengxiang Yang, and Ming Yang. *Maintaining Diversity by Clustering in Dynamic Environments*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2734–2741 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Li et al.(2012c)Li, Li, Mabu, and Hirasawa] Xianneng Li, Bing Li, Shingo Mabu, and Kotaro Hirasawa. *A Continuous Estimation of Distribution Algorithm by Evolving Graph Structures Using Reinforcement Learning*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2097–2104 (Brisbane, Australia, 2012c). ISBN 0-7803-8515-2.
- [Li et al.(2012d)Li, Chen, Liu, and Wu] Yangyang Li, Jing Chen, Ruochen Liu, and Jianshe Wu. *A Spectral Clustering-Based Adaptive Hybrid Multi-Objective Harmony Search Algorithm for Community Detection*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3308–3315 (Brisbane, Australia, 2012d). ISBN 0-7803-8515-2.
- [Li and Guo(2012)] Yanjuan Li and Maozu Guo. *Phase Transition and New Fitness Function Based Genetic Inductive Logic Programming Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 956–963 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Li et al.(2012e)Li, Shang, Liang, and Niu] Zhihui Li, Zhigang Shang, J. J. Liang, and Ben Niu. *An Improved Differential Evolution for Constrained Optimization with Dynamic Constraint-Handling Mechanism*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 17–22 (Brisbane, Australia, 2012e). ISBN 0-7803-8515-2.
- [Liang et al.(2012a)Liang, Ma, Qu, and Niu] J. J. Liang, S. T. Ma, B. Y Qu, and Ben Niu. *Strategy Adaptive Memetic Crowding Differential Evolution For Multimodal Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2919–2925 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Liang et al.(2012b)Liang, X. B, Qu, Niu, and Chen] J. J. Liang, Mao X. B, B. Y Qu, B. Niu, and T. J. Chen. *Elite Multi-Group Differential Evolution*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2413–2419 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Liang et al.(2012c)Liang, Qu, Suganthan, and Niu] Jane Jing Liang, Boyang Qu, P. N. Suganthan, and Ben Niu. *Dynamic Multi-Swarm Particle Swarm Optimization for Multi-Objective Optimization Problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1638–1645 (Brisbane, Australia, 2012c). ISBN 0-7803-8515-2.
- [Liang and Juarez(2012)] Yun-Chia Liang and Josue Rodolfo Cuevas Juarez. *Multilevel Image Thresholding Using Relative Entropy and Virus Optimization Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3238–3245 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Liao and Ting(2012a)] Chien-Chih Liao and Chuan-Kang Ting. *Extending the Lifetime of Dynamic Wireless Sensor Networks by Genetic Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1016–1023 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Liao and Ting(2012b)] Xin-Lan Liao and Chuan-Kang Ting. *Evolutionary Algorithms Using Adaptive Mutation for the Selective Pickup and Delivery Problem*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2758–2765 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.

- [Lima et al.(2012)Lima, Carrano, and Takahashi] Marlon Lima, Eduardo Carrano, and Ricardo Takahashi. *Multiobjective Planning of Wireless Local Area Networks (WLAN) Using Genetic Algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3526–3533 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Lin and ping Chen(2012)] Jih-Yiing Lin and Ying ping Chen. *When and What Kind of Memetic Algorithms Perform Well*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2821–2828 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Lin et al.(2012)Lin, Ji, Zhu, and He] Ling Lin, Zhen Ji, Zexuan Zhu, and Shan He. *A Crown Jewel Defense Strategy Based Particle Swarm Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1817–1822 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Ling et al.(2012)Ling, Nguyen, Leung, Chan, and Jiang] Sai Ho Ling, Hung Nguyen, Frank H.F. Leung, Kit Yan Chan, and Frank Jiang. *Intelligent Fuzzy Particle Swarm Optimization with Cross-Mutated Operation*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1176–1183 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Liu et al.(2012a)Liu, Zhang, Fernandez, and Gielen] Bo Liu, Qingfu Zhang, Francisco V. Fernandez, and Georges Gielen. *Self-adaptive Lower Confidence Bound: A New General and Effective Prescreening Method for Gaussian Process Surrogate Model Assisted Evolutionary Algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2479–2484 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Liu and Ting(2012)] Chien-Hung Liu and Chuan-Kang Ting. *Polyphonic Accompaniment Using Genetic Algorithm with Music Theory*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2644–2650 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Liu et al.(2012b)Liu, Chen, and Gu] Hai-Lin Liu, Wen-Qin Chen, and Fangqing Gu. *A Novel Multi-objective Differential Evolutionary Algorithm Based Sub-region Search*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 244–249 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Liu et al.(2012c)Liu, Hsu, and Hung] Jenn-Long Liu, Yu-Tzu Hsu, and Chih-Lung Hung. *Development of Evolutionary Data Mining Algorithms and their Applications to Cardiac Disease Diagnosis*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 690–697 (Brisbane, Australia, 2012c). ISBN 0-7803-8515-2.
- [Liu and Zhong(2012)] Jing Liu and Weicai Zhong. *Continuous Game Dynamics on Populations with a Cycle Structure under Weak Selection*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 819–824 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Liu et al.(2012d)Liu, Liu, and Li] Ruochen Liu, Yong Liu, and Yangyang Li. *An Improved Method for Multi-objective Clustering Ensemble Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3355–3362 (Brisbane, Australia, 2012d). ISBN 0-7803-8515-2.
- [Liu et al.(2012e)Liu, Wang, Li, and Xiangrong] Ruochen Liu, Xiao Wang, Yangyang Li, and Zhang Xiangrong. *Multi-objective Invasive Weed Optimization Algorithm for Clustering*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2202–2209 (Brisbane, Australia, 2012e). ISBN 0-7803-8515-2.
- [Liu et al.(2012f)Liu, Ji, Zhu, and He] Wenmin Liu, Zhen Ji, Zexuan Zhu, and Shan He. *Survival Analysis of Gene Expression Data Using PSO Based Radial Basis Function Networks*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3095–3099 (Brisbane, Australia, 2012f). ISBN 0-7803-8515-2.

- [Liu et al.(2012g)Liu, Chung, and Yeh] Yao Liu, Yuk Ying Chung, and Wei Chang Yeh. *Simplified Swarm Optimization with Sorted Local Search for Golf Data Classification*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 795–802 (Brisbane, Australia, 2012g). ISBN 0-7803-8515-2.
- [Liu et al.(2012h)Liu, Chen, Xu, Li, and Li] Zhihao Liu, Hanwu Chen, Juan Xu, Wenqian Li, and Zhigang Li. *Deterministic Secure Quantum Communication with Mutual Authentication Based on Bell Measurement*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1751–1755 (Brisbane, Australia, 2012h). ISBN 0-7803-8515-2.
- [Logenthiran et al.(2012)Logenthiran, Dipti, Ashwin, and Raj] Thillainathan Logenthiran, Srinivasan Dipti, M. Khambadkone Ashwin, and Thangavelu Sundar Raj. *Optimal Sizing of Distributed Energy Resources for Integrated Microgrids using Evolutionary Strategy*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 144–151 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Lopez and de Antonio(2012)] Oscar J. Romero Lopez and Angelica de Antonio. *Evolving the way of doing the right thing*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2573–2580 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Louzada et al.(2012)Louzada, Camilo-Junior, Vincenzi, and Rodrigues] Jailton Louzada, Celso Camilo-Junior, Auri Vincenzi, and Cassio Rodrigues. *An Elitist Evolutionary Algorithm for Automatically Generating Test Data*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 455–462 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Lu and Han(2012)] Qiang Lu and Qing-Long Han. *A Finite-time Particle Swarm Optimization Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 841–848 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Ludwig(2012a)] Simone Ludwig. *Clonal Selection based Genetic Algorithm for Workflow Service Selection*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1960–1966 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Ludwig(2012b)] Simone Ludwig. *Step-Optimized Particle Swarm Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1703–1711 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Ma et al.(2012)Ma, Fei, Ding, and Jin] Haiping Ma, Minrui Fei, Zhiguo Ding, and Jing Jin. *Biogeography-Based Optimization with Ensemble of Migration Models for Global Numerical Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1110–1117 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Maali and Al-Jumaily(2012)] Yashar Maali and Adel Al-Jumaily. *A Novel Partially Connected Cooperative Parallel PSO-SVM Algorithm: Study Based on Sleep Apnea Detection*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 198–205 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Macharet et al.(2012)Macharet, Neto, da Camara Neto, and Campos] Douglas Macharet, Armando Alves Neto, Vilar da Camara Neto, and Mario Campos. *Data Gathering Tour Optimization for Dubins' Vehicles*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2041–2048 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Mahlmann et al.(2012)Mahlmann, Togelius, and Yannakakis] Tobias Mahlmann, Julian Togelius, and Georgios N. Yannakakis. *Evolving Card Sets Towards Balancing Dominion*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1223–1230 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Maia et al.(2012)Maia, De Castro, and Caminhas] Renato Maia, Leandro De Castro, and Walmir Caminhas. *Bee Colonies as Model for Multimodal Continuous Optimization: The OptBees Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3363–3370 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Mallipeddi and Lee(2012a)] Rammohan Mallipeddi and Minh Lee. *Ensemble Based Face Recognition using Discriminant PCA Features*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 327–333 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Mallipeddi and Lee(2012b)] Rammohan Mallipeddi and Minh Lee. *Surrogate Model Assisted Ensemble Differential Evolution Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2073–2080 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [MartInez and Coello Coello(2012)] Saul Zapotecas MartInez and Carlos A. Coello Coello. *A Direct Local Search Mechanism for Decomposition-based Multi-Objective Evolutionary Algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3480–3487 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Matayoshi(2012)] Mitsukuni Matayoshi. *Landscape Information Extraction from Chromosome based on a Quality Control Approach*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1944–1951 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Mavrovouniotis and Yang(2012)] Michalis Mavrovouniotis and Shengxiang Yang. *Ant colony optimization with memory-based immigrants for the dynamic vehicle routing problem*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2766–2773 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [McCarthy(2012)] Paul McCarthy. *Path-sharing: A new betweenness measure for community identification in networks*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 79–84 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Meiguins et al.(2012)Meiguins, Limao, Meiguins, Sousa Junior, and Freitas] Aruanda S. G. Meiguins, Roberto C. Limao, Bianchi S. Meiguins, Samuel F. Sousa Junior, and Alex A. Freitas. *AutoClustering - An Estimation of Distribution Algorithm for the Automatic Generation of Clustering Algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2687–2693 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Menchaca-Mendez and Coello Coello(2012)] Adriana Menchaca-Mendez and Carlos A. Coello Coello. *Solving Multi-Objective Optimization Problems using Differential Evolution and a Maximin Selection Criterion*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3145–3152 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Meng and Hongliang(2012)] Yan Meng and Guo Hongliang. *A Gene Regulatory Network based Framework for Self-Organization in Mobile Sensor Networks*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 533–539 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Merelo Guervos et al.(2012)Merelo Guervos, Mora, Cruz Almaguer, Esparcia-Alcazar, and Cotta] Juan-J Merelo Guervos, Antonio M. Mora, J. Albert Cruz Almaguer, Anna I. Esparcia-Alcazar, and Carlos Cotta. *Scaling in distributed evolutionary algorithms with persistent population*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 625–632 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Mezura-Montes and Lopez-Davila(2012)] Efren Mezura-Montes and Elyar A. Lopez-Davila. *Adaptation and Local Search in the Modified Bacterial Foraging Algorithm for Constrained Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1546–1553 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Mishra and Gallagher(2012)] Krishna Mishra and Marcus Gallagher. *Variable Screening for Reduced Dependency Modelling in Gaussian-based Continuous Estimation of Distribution Algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2105–2112 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Mitavskiy and He(2012)] Boris Mitavskiy and Jun He. *A Polynomial Time Approximation Scheme for a Single Machine Scheduling Problem Using a Hybrid Evolutionary Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1513–1520 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Mohammadi et al.(2012)] Mohammadi, Omidvar, and Li] Asad Mohammadi, Mohammad Nabi Omidvar, and Xiaodong Li. *Reference Point Based Multi-objective Optimization Through Decomposition*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2131–2138 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Montgomery and Chen(2012)] James Montgomery and Stephen Chen. *A Simple Strategy for Maintaining Diversity and Reducing Crowding in Differential Evolution*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2790–2797 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Moraglio et al.(2012)] Moraglio, Otero, Johnson, Thompson, and Freitas] Alberto Moraglio, Fernando Otero, Colin Johnson, Simon Thompson, and Alex Freitas. *Evolving Recursive Programs using Non-recursive Scaffolding*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2242–2249 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Moser and Gheorghita(2012)] Irene Moser and Marius Gheorghita. *Combining Search Space Diagnostics and Optimisation*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1900–1907 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Moubayed et al.(2012)] Moubayed, hasan, Gan, Petrovski, and McCall] Noura Al Moubayed, Bashar Awwad Shiekh hasan, John Q. Gan, Andrei Petrovski, and John McCall. *Continuous Presentation for Multi-Objective Channel Selection in Brain-Computer Interfaces*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3488–3494 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Munoz et al.(2012)] Munoz, Kirley, and Halgamuge] Mario A. Munoz, Michael Kirley, and Saman Halgamuge. *Landscape Characterization of Numerical Optimization Problems Using Biased Scattered Data*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2162–2169 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Murakami(2012)] Keisuke Murakami. *A Genetic Algorithm for Probe Testing Problem on High-density PCB*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3456–3463 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Mussetta et al.(2012a)] Mussetta, Grimaccia, and Zich] Marco Mussetta, Francesco Grimaccia, and Riccardo E. Zich. *Comparison of different optimization techniques for the design of electromagnetic devices*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 705–710 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Mussetta et al.(2012b)] Mussetta, Shadmehr, Grimaccia, Gandelli, and Zich] Marco Mussetta, Houriyeh Shadmehr, Francesco Grimaccia, Alessandro Gandelli, and Riccardo Zich. *Optimization of a Radio Frequency Energy Harvesting Device*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 52–56 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Nag and Pal(2012)] Kaustuv Nag and Tandra Pal. *A new Archive based Steady State Genetic Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1864–1870 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Nascimento and Vasconcelos(2012)] Antonio Nascimento and Germano Vasconcelos. *An Experimental Investigation of Artificial Immune System Algorithms for Credit Risk Assessment Applications*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1785–1792 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Nasir et al.(2012)Nasir, Sengupta, Das, and Suganthan] Md Nasir, Soumyadip Sengupta, Swagatam Das, and Ponnuthurai N Suganthan. *An improved Multi-objective Optimization Algorithm based on Fuzzy Dominance for Risk Minimization in Biometric Sensor Network*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 980–987 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Nazmul et al.(2012)Nazmul, Chetty, Samudrala, and Chalmers] Rumana Nazmul, Madhu Chetty, Ram Samudrala, and David Chalmers. *Protein Structure Prediction based on Optimal Hydrophobic Core Formation*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1263–1271 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Neumann and Cairns(2012)] Geoffrey Neumann and David Cairns. *Targeted EDA Adapted for a Routing Problem with Variable Length Chromosomes*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 334–341 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Ngoko et al.(2012)Ngoko, Goldman, and Trystram] Yanik Ngoko, Alfredo Goldman, and Denis Trystram. *Malleable resource sharing algorithms for cooperative resolution of problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 407–414 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Nguyen and Wood(2012)] Hien Nguyen and Ian Wood. *Variable selection in statistical models using population-based incremental learning with applications to genome-wide association studies*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2466–2473 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Nguyen et al.(2012a)Nguyen, Kirley, and Garcia-Flores] Minh Van Nguyen, Michael Kirley, and Rodolfo Garcia-Flores. *Community Evolution in A Scientific Collaboration Network*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3222–3229 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Nguyen et al.(2012b)Nguyen, Zhang, Johnston, and Chen] Su Nguyen, Mengjie Zhang, Mark Johnston, and Tan Kay Chen. *A Coevolution Genetic Programming Method to Evolve Scheduling Policies for Dynamic Multi-objective Job Shop Scheduling Problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3332–3339 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Ni et al.(2012)Ni, Li, Qiao, and Wu] Jiacheng Ni, Li Li, Fei Qiao, and Qidi Wu. *A Novel Memetic Algorithm based on the Comprehensive Learning PSO*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 915–922 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Nicolau et al.(2012)Nicolau, O'Neill, and Brabazon] Miguel Nicolau, Michael O'Neill, and Anthony Brabazon. *Termination in Grammatical Evolution: Grammar Design, Wrapping, and Tails*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2381–2388 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Nielsen et al.(2012)Nielsen, Dorronsoro, Danoy, and Bouvry] Sune S. Nielsen, Bernabe Dorronsoro, Gregoire Danoy, and Pascal Bouvry. *Novel Efficient Asynchronous Cooperative Co-evolutionary Multi-Objective Algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1372–1378 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Nikumbh et al.(2012)Nikumbh, Ghosh, and Jayaraman] Sarvesh Nikumbh, Shameek Ghosh, and Valadi Jayaraman. *Biogeography-Based Informative Gene Selection and Cancer Classification Using SVM and Random Forests*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 131–136 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Nitschke(2012)] Geoff Nitschke. *Behavioral Heterogeneity, Cooperation, and Collective Construction*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 117–124 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.



- [Oliveira et al.(2012)Oliveira, Mota, and Barone] Luiz Otavio Oliveira, Rodrigo Luiz Mota, and Dante Augusto Barone. *Clonal Selection Classifier with Data Reduction: Classification as an Optimization Task*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 85–91 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Orito et al.(2012)Orito, Yamamoto, and Tsujimura] Yukiko Orito, Hisashi Yamamoto, and Yasuhiro Tsujimura. *Equality Constrained Long-Short Portfolio Replication by Using Probabilistic Model-building GA*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1562–1569 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Ortuno et al.(2012)Ortuno, Florido, Urquiza, Pomares, Prieto, and Rojas] Francisco Ortuno, Javier P. Florido, Jose M. Urquiza, Hector Pomares, Alberto Prieto, and Ignacio Rojas. *Optimization of Multiple Sequence Alignment Methodologies using a Multiobjective Evolutionary Algorithm based on NSGA-II*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 92–99 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Ou and Ou(2012)] Chung-Ming Ou and C.R. Ou. *Immune Memory with Associativity: Perspectives on Dynamical Systems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 928–933 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Pace et al.(2012)Pace, Cain, and Woodward] Shannon Pace, Andrew Cain, and Clinton Woodward. *A Consolidated Model of Particle Swarm Optimisation Variants*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3270–3277 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Pai and Michel(2012)] G A Vijayalakshmi Pai and Thierry Michel. *Differential Evolution based optimization of Risk budgeted Equity Market Neutral Portfolios*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1057–1064 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Palafox and Hitoshi(2012)] Leon Palafox and Iba Hitoshi. *On the use of Population Based Incremental Learning to do Reverse Engineering on Gene Regulatory Networks*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1317–1324 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Park et al.(2012)Park, Lee, and Kim] In-Won Park, Ki-Baek Lee, and Jong-Hwan Kim. *Multi-objective Evolutionary Algorithm-based Optimal Posture Control of Humanoid Robots*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 175–181 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Paul et al.(2012)Paul, Kumar, and Singh] Sandeep Paul, Satish Kumar, and Lotika Singh. *Novel Hybrid Compact Genetic Algorithm for Simultaneous Structure and Parameter Learning of Neural Networks*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2567–2572 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Pehlivanoglu and Baysal(2012)] Yasin Volkan Pehlivanoglu and Oktay Baysal. *Improved Particle Swarm Optimization: Catching the Big Wave on the Surf*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 833–840 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Pei and Takagi(2012)] Yan Pei and Hideyuki Takagi. *Fourier Analysis of the Fitness Landscape for Evolutionary Search Acceleration*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2968–2974 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Perez et al.(2012)Perez, Rohlfshagen, and Lucas] Diego Perez, Philipp Rohlfshagen, and Simon Lucas. *The Physical Travelling Salesman Problem: WCCI 2012 Competition*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1199–1206 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Picek et al.(2012)Picek, Golub, and Jakobovic] Stjepan Picek, Marin Golub, and Domagoj Jakobovic. *Influence of the Crossover Operator in the Performance of the Hybrid Taguchi GA*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 423–430 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Pilát and Neruda(2012)] Martin Pilát and Roman Neruda. *An Evolutionary Strategy for Surrogate-Based Multiobjective Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1857–1863 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Pirisi et al.(2012)Pirisi, Grimaccia, Mussetta, and Zich] Andrea Pirisi, Francesco Grimaccia, Marco Mussetta, and Riccardo E. Zich. *An Evolutionary Optimized Device for Energy Harvesting from Traffic*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3593–3598 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Pisani and Lorena(2012)] Paulo Henrique Pisani and Ana Carolina Lorena. *Evolutionary Neural Networks Applied to Keystroke Dynamics: Genetic and Immune Based*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2999–3006 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Poon et al.(2012)Poon, Yin, Poon, Zhang, Liu, and Sze] Josiah Poon, Dawei Yin, Simon Poon, Runshun Zhang, Baoyan Liu, and Daniel Sze. *Co-evolution of Symptom-Herb Relationship*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2460–2465 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Puris et al.(2012)Puris, Bello, Molina, and Herrera] Amilkar Puris, Rafael Bello, Daniel Molina, and Francisco Herrera. *Optimising real parameters using the information of a mesh of solutions: VMO algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2659–2665 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Qiu et al.(2012)Qiu, Zao, and Chou] Jun-Wei Qiu, John K. Zao, and Yu-Hsiang Chou. *A Geometrically Faithful Memetic Algorithm for Searching Sparse Representations of EEG Signals*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 379–385 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Rabelo et al.(2012a)Rabelo, Fernandes, and Silva] Ricardo Rabelo, Ricardo Fernandes, and Ivan Silva. *Operational Planning of Hydrothermal Systems Based on a Fuzzy-PSO Approach*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2581–2588 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Rabelo et al.(2012b)Rabelo, Lemos, and Barbosa] Ricardo Rabelo, Marcus Lemos, and Daniel Barbosa. *Power System Harmonics Estimation using Particle Swarm Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3534–3539 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Rada-Vilela et al.(2012)Rada-Vilela, Zhang, and Seah] Juan Rada-Vilela, Mengjie Zhang, and Winston Seah. *A Performance Study on the Effects of Noise and Evaporation in Particle Swarm Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1892–1899 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Raffe et al.(2012)Raffe, Zambetta, and Li] William Raffe, Fabio Zambetta, and Xiaodong Li. *A Survey of Procedural Terrain Generation Techniques using Evolutionary Algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 803–810 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Rahman and Dueck(2012)] Md. Mazder Rahman and Gerhard Dueck. *An Algorithm to Find Quantum Templates*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1668–1674 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Rahman et al.(2012)Rahman, Hussain, Scavino, Hannan, and Basri] Mohammad Osiur Rahman, Aini Hussain, Edgar Scavino, M. A. Hannan, and Hassan Basri. *Object Identification Using DNA Computing Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 315–321 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Rajasekhar et al.(2012)Rajasekhar, Das, and Suganthan] Anguluri Rajasekhar, Swagatam Das, and P. N. Suganthan. *Design of Fractional Order Controller for a Servohydraulic Positioning System with Micro Artificial Bee Colony Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 972–979 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Ramos and Vazquez(2012)] Josafath Espinosa Ramos and Roberto A. Vazquez. *A New Objective Function to build Seismic Networks using Differential Evolution*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2898–2904 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Regnier-Coudert and McCall(2012)] Olivier Regnier-Coudert and John McCall. *An Island Model Genetic Algorithm for Bayesian Network Structure Learning*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3419–3426 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Reynolds and Gawasmeh(2012)] Robert Reynolds and Yousef Gawasmeh. *Evolving Heterogeneous Social Fabrics for the Solution of Real-Valued Optimization Problems using Cultural Algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3395–3402 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Riano and McGinnity(2012)] Lorenzo Riano and T.M. McGinnity. *A Robot that Autonomously Improves Skills by Evolving Computational Graphs*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2049–2056 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Richter and Moser(2012)] Jan Richter and Irene Moser. *A Distributed Multiobjective Approach to Negotiations in Semi-Competitive Environments*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3122–3128 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Rohler and Chen(2012)] Antonio Bolufe Rohler and Stephen Chen. *Multi-swarm hybrid for multimodal optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2397–2404 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Rotaru and Brudaru(2012)] Cristian Rotaru and Octav Brudaru. *Multi-grid Cellular Genetic Algorithm for Optimizing Variable Ordering of ROBDDs*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2529–2536 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Roy et al.(2012)Roy, MartInez, Coello Coello, and Sengupta] Subhrajit Roy, Saul Zapotecas MartInez, Carlos A. Coello Coello, and Soumyadip Sengupta. *A Multi-Objective Evolutionary Approach for Linear Antenna Array Design and Synthesis*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3472–3479 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Ruuska and Miettinen(2012)] Sauli Ruuska and Kaisa Miettinen. *Constructing Evolutionary Algorithms for Bilevel Multiobjective Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 250–256 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Ryu et al.(2012)Ryu, Lee, and Kim] Si-Jung Ryu, Ki-Baek Lee, and Jong-Hwan Kim. *Improved Version of a Multiobjective Quantum-inspired Evolutionary Algorithm with Preference-based Selection*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2318–2324 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Saha and Ray(2012a)] Amit Saha and Tapabrata Ray. *Equality Constrained Multi-Objective Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1395–1401 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.

- [Saha and Ray(2012b)] Amit Saha and Tapabrata Ray. *A Repair Mechanism for Active Inequality Constraint Handling*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 546–553 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Sandin et al.(2012)] Sandin, Andrade, Viegas, Madeira, Rocha, Salles, and Goncalves] Isac Sandin, Guilherme Andrade, Felipe Viegas, Daniel Madeira, Leonardo Rocha, Thiago Salles, and Marcos Andre Goncalves. *Aggressive and Effective Feature Selection using Genetic Programming*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2718–2725 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Sandran et al.(2012)] Sandran, Zakaria, and Pal] Thayalan Sandran, Nordin Zakaria, and Anindya Jyoti Pal. *Performance Profile of Some Hybrid Heuristic Search Techniques using Compiler Flag Selection as a Seed Example*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2474–2478 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Sano et al.(2012)] Sano, Shindo, Jin’no, and Saito] Ryosuke Sano, Takuya Shindo, Kenya Jin’no, and Toshimichi Saito. *PSO-based Multiple Optima Search Systems with Switched Topology*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3340–3346 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Santana et al.(2012a)] Santana, Mendiburu, and Lozano] Roberto Santana, Alexander Mendiburu, and Jose A. Lozano. *An analysis of the use of probabilistic modelling for synaptic connectivity prediction from genomic data*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3495–3502 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Santana et al.(2012b)] Santana, Mendiburu, and Lozano] Roberto Santana, Alexander Mendiburu, and Jose A. Lozano. *Structural transfer using EDAs: An application to multi-marker tagging SNP selection*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3206–3213 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Santos et al.(2012)] Santos, Takahashi, and Moreira] Thiago Santos, Ricardo H. C. Takahashi, and Gladston J. P. Moreira. *A CMA Stochastic Differential Equation Approach for Many-Objective Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3294–3299 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Saraiva and Pinheiro(2012)] Rommel Saraiva and Placido Pinheiro. *A novel application of crossover operator to a hybrid optimization framework: investigation into cutting problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 633–639 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Sato(2012)] Aki-Hiro Sato. *Japanese International Air Travel: The Relationship between Flight Ticket Price and Geodesic Distance*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1065–1070 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Sato et al.(2012)] Sato, Hasegawa, Bollegala, and Iba] Hiroyuki Sato, Yoshihiko Hasegawa, Danushka Bollegala, and Hitoshi Iba. *Probabilistic Model Building GP with Belief Propagation*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2089–2096 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Sawai(2012)] Hidefumi Sawai. *Reorganizing A New Generation Airline Network Based on An Ant-Colony Optimization-Inspired Small-World Network*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 287–294 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Sayed et al.(2012)] Sayed, Esam, and Sarker] Eman Sayed, Daryl Esam, and Ruhul Sarker. *Dependency Identification Technique for Large Scale Optimization Problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1442–1449 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Seah et al.(2012)Seah, Ong, Tsang, and Jiang] Chun-Wei Seah, Yew-Soon Ong, Ivor W. Tsang, and Siwei Jiang. *Pareto Rank Learning in Multi-objective Evolutionary Algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2613–2620 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Segredo et al.(2012)Segredo, Segura, and Leon] Eduardo Segredo, Carlos Segura, and Coromoto Leon. *Analysing the Robustness of Multiobjectivisation Parameters with Large Scale Optimisation Problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1729–1736 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Segretier et al.(2012)Segretier, Clergue, Collard, and Izquierdo] Wilfried Segretier, Manuel Clergue, Martine Collard, and Luis Izquierdo. *An evolutionary data mining approach on hydrological data with classifier juries*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2853–2860 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Sekanina et al.(2012)Sekanina, Salajka, and Vasicek] Lukas Sekanina, Vojtech Salajka, and Zdenek Vasicek. *Two-Step Evolution of Polymorphic Circuits for Image Multi-Filtering*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1481–1488 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Selvan et al.(2012)Selvan, Muhammad, and Masra] Krishna Veni Selvan, Mohd Saufee Muhammad, and Sharifah Masniah Wan Masra. *Ensembles of DNA Letters for the Design of Unique DNA Library Using a Modified Version of Multi-criteria VEDEPSO Optimizer*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 364–371 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Semenkin and Semenkina(2012)] Eugene Semenkin and Maria Semenkina. *Self-configuring genetic programming algorithm with modified uniform crossover*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2501–2506 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Sengupta et al.(2012a)Sengupta, Chakraborti, Konar, Kim, and Nagar] Abhronil Sengupta, Tathagata Chakraborti, Amit Konar, Eunjin Kim, and Atulya K. Nagar. *An Adaptive Memetic Algorithm Using a Synergy of Differential Evolution and Learning Automata*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2436–2443 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Sengupta et al.(2012b)Sengupta, Das, Nasir, Vasilakos, and Pedrycz] Soumyadip Sengupta, Swagatam Das, Md. Nasir, A. V. Vasilakos, and Witold Pedrycz. *Energy-Efficient Differentiated Coverage of Dynamic Objects using an Improved Evolutionary Multi-objective optimization Algorithm with Fuzzy-Dominance*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2186–2193 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Seredynski et al.(2012)Seredynski, Danoy, Masoud, Bouvry, and Yoann] Marcin Seredynski, Gregoire Danoy, Tabatabaei Masoud, Pascal Bouvry, and Pigne Yoann. *Generation of Realistic Mobility for VANETs Using Genetic Algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3448–3455 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Sergeevich and Bartlett(2012)] Alexandr Sergeevich and Stephen Bartlett. *Optimizing qubit Hamiltonian parameter estimation algorithm using PSO*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3092–3094 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Setayesh et al.(2012)Setayesh, Mengjie, and Mark] Mahdi Setayesh, Zhang Mengjie, and Johnston Mark. *Effects of Static and Dynamic Topologies in Particle Swarm Optimisation for Edge Detection in Noisy Images*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1341–1348 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Shang et al.(2012)Shang, Zhihui, Liang, and Niu] Zhigang Shang, Li Zhihui, J. J. Liang, and Ben Niu. *Control Parameters Self-Adaptation in Differential*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 65–70 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Shao and Er(2012)] Zhifei Shao and Meng Joo Er. *A Review of Inverse Reinforcement Learning Theory and Recent Advances*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 585–592 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Sharifi et al.(2012)Sharifi, Noroozi, Bashiri, Hashemi, and Meybodi] Ali Sharifi, Vahid Noroozi, Masoud Bashiri, Ali B. Hashemi, and Mohammad Reza Meybodi. *Two Phased Cellular PSO: A New Collaborative Cellular Algorithm for Optimization in Dynamic Environments*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 350–357 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Sharma et al.(2012a)Sharma, Pant, and Bansal] Tarun Kumar Sharma, Millie Pant, and Jagdish Chand Bansal. *Artificial Bee Colony with Mean Mutation Operator for Better Exploitation*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3045–3051 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Sharma et al.(2012b)Sharma, Pant, and Bansal] Tarun Kumar Sharma, Millie Pant, and Jagdish Chand Bansal. *Some Modifications to Enhance the Performance of Artificial Bee Colony*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3577–3584 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Shelokar et al.(2012)Shelokar, Quirin, and Cordon] Prakash Shelokar, Arnaud Quirin, and Oscar Cordon. *Automatic Extraction of Common Research Areas in World Scientograms using the Multiobjective Subdue Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3230–3237 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Shelton et al.(2012)Shelton, Dozier, Adams, and Alford] Joseph Shelton, Gerry Dozier, Joshua Adams, and Aniesha Alford. *Permutation-Based Biometric Authentication Protocols for Mitigating Replay Attacks*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3630–3634 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Shen et al.(2012)Shen, Laio, and Chen] Tsu-Wang Shen, Ting-Fong Laio, and Shao-Tsu Chen. *Hormone Concentration Inception: Development an Artificial Immune System with Immunomodulator (AIS) Intervention*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 656–661 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Shi et al.(2012)Shi, Yin, and Song] Qiao Shi, Wei Yin, and Andy Song. *Analysis of Motion Detectors Evolved by Genetic Programming*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 501–508 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Shim et al.(2012a)Shim, Tan, and Tan] Vui Ann Shim, Kay Chen Tan, and Kok Kiong Tan. *A Hybrid Adaptive Evolutionary Algorithm in the Domination-based and Decomposition-based Frameworks of Multi-objective Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2113–2120 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Shim et al.(2012b)Shim, Tan, and Tan] Vui Ann Shim, Kay Chen Tan, and Kok Kiong Tan. *A Hybrid Estimation of Distribution Algorithm for Solving the Multi-objective Multiple Traveling Salesman Problem*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1809–1816 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Shimoyama et al.(2012)Shimoyama, Sato, Jeong, and Obayashi] Koji Shimoyama, Koma Sato, Shinkyu Jeong, and Shigeru Obayashi. *Comparison of the Criteria for Updating Kriging Response Surface Models in Multi-Objective Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2170–2177 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Si et al.(2012)Si, Wang, and Wu] Chengyong Si, Lei Wang, and Qidi Wu. *Mapping Constrained Optimization Problems to Algorithms and Constraint Handling Techniques*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3379–3386 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Siegmond et al.(2012)Siegmond, Ng, and Deb] Florian Siegmond, Amos H.C. Ng, and Kalyanmoy Deb. *Finding a preferred diverse set of Pareto-optimal solutions for a limited number of function calls*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 711–718 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Silveira et al.(2012)Silveira, Tanscheit, and Vellasco] Luciano Silveira, Ricardo Tanscheit, and Marley Vellasco. *Quantum-Inspired Genetic Algorithms applied to Ordering Combinatorial Optimization Problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 295–301 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Sinha et al.(2012a)Sinha, Malo, and Deb] Ankur Sinha, Pekka Malo, and Kalyanmoy Deb. *Unconstrained Scalable Test Problems for Single-Objective Bilevel Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2333–2340 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Sinha et al.(2012b)Sinha, Pandey, and Deb] Ankur Sinha, Anmol Pandey, and Kalyanmoy Deb. *Solving High Objective Problems in Fixed Interactions with the Decision Maker*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2294–2301 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Sinha et al.(2012c)Sinha, Bhola, Panchal, Singhal, and Abraham] Suruchi Sinha, Abhishek Bhola, V.K. Panchal, Siddhant Singhal, and Ajith Abraham. *Resolving Mixed Pixel Using Hybridization Of Ant Colony Optimization And Biogeography Based Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 222–227 (Brisbane, Australia, 2012c). ISBN 0-7803-8515-2.
- [Siriwardana and Halgamuge(2012)] Jayantha Siriwardana and Saman Halgamuge. *Fast Shortest Path Optimization Inspired by Shuttle Streaming of Physarum Polycephalum*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3246–3253 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Smith-Miles and Tan(2012)] Kate Smith-Miles and Thomas Tan. *Measuring Algorithm Footprints in Instance Space*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3569–3576 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Soam et al.(2012)Soam, Palafox, and Iba] Vishal Soam, Leon Palafox, and Hitoshi Iba. *Multi-Objective Portfolio Optimization and Rebalancing Using Genetic Algorithms with Local Search*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1087–1093 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Srivastava and Anand(2012)] Sanjay Srivastava and Yogesh Anand. *An Intelligent System to Address Occupational Health of Workers Exposed to High Risk Jobs*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2552–2558 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Stringer et al.(2012)Stringer, Lamont, and Akers] Jeremy Stringer, Gary Lamont, and Geoffrey Akers. *Radar Phase-Coded Waveform Design using Multi-Objective Evolutionary Algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2310–2317 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Sun et al.(2012a)Sun, Yang, Gong, and Li] Xiaoyan Sun, Lei Yang, Dunwei Gong, and Ming Li. *Interactive Genetic Algorithm Assisted with Group Decision Making-based Collective Intelligence*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2673–2680 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.

- [Sun et al.(2012b)Sun, Lam, Li, Xu, and Yu] Yi Sun, Albert Y.S. Lam, Victor O.K. Li, Jin Xu, and Jame J.Q. Yu. *Chemical Reaction Optimization for the Optimal Power Flow Problem*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3555–3562 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Szabo and Kroeger(2012)] Claudia Szabo and Trent Kroeger. *Evolving Multi-objective Strategies for Task Allocation of Scientific Workflows on Public Clouds*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2302–2309 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Takahama and Sakai(2012a)] Tetsuyuki Takahama and Setsuko Sakai. *Differential Evolution with Dynamic Strategy and Parameter Selection by Detecting Landscape Modality*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 593–600 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Takahama and Sakai(2012b)] Tetsuyuki Takahama and Setsuko Sakai. *Efficient Constrained Optimization by the Epsilon Constrained Rank-Based Differential Evolution*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1387–1394 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Takahama and Sakai(2012c)] Tetsuyuki Takahama and Setsuko Sakai. *Large Scale Optimization by Differential Evolution with Landscape Modality Detection and a Diversity Archive*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2876–2883 (Brisbane, Australia, 2012c). ISBN 0-7803-8515-2.
- [Takahiro et al.(2012)Takahiro, Takuya, Takayuki, and Kenya] Tsujimoto Takahiro, Shindo Takuya, Kimuta Takayuki, and Jin’no Kenya. *A Relationship between Network Topology and Search Performance of PSO*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 358–363 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Takano and Osana(2012)] Mio Takano and Yuko Osana. *Automatic Composition System using Genetic Algorithm and N-gram Model considering Melody Blocks*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 525–532 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Takenouchi et al.(2012)Takenouchi, Tokumaru, and Muranaka] Hiroshi Takenouchi, Masataka Tokumaru, and Noriaki Muranaka. *Performance Evaluation of Interactive Evolutionary Computation with Tournament-Style Evaluation*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1–8 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Tan(2012)] Swee Chuan Tan. *Simplifying and Improving Swarm-based Clustering*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3190–3197 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Tanaka and Takahama(2012)] Masahiro Tanaka and Tomoya Takahama. *Restoration of Motion-Blurred Line Drawings by Differential Evolution and Richardson-Lucy Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1489–1496 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Tang et al.(2012)Tang, Alam, Lokan, and Abbass] Jiangjun Tang, Sameer Alam, Chris Lokan, and Hussein Abbass. *A Multi-objective Evolutionary Method for Dynamic Airspace Re-sectorization using Sectors Clipping and Similarities*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3607–3614 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Tang(2012)] Maolin Tang. *Evolutionary Placement of Continuously Operating Reference Stations of Network Real-Time Kinematic*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 415–422 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.



- [Tao et al.(2012)Tao, Cao, Zhang, Lin, and Li] Yanyun Tao, Jian Cao, Yuzhen Zhang, Jiajun Lin, and Minglu Li. *Using Module-level Evolvable hardware Approach in Design of Sequential Logic Circuits*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2234–2241 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Taroco et al.(2012)Taroco, Carrano, Neto, and Takahashi] Cristiane Taroco, Eduardo Carrano, Oriane Neto, and Ricardo Takahashi. *A Faster Genetic Algorithm for Substation Location and Network Design of Power Distribution Systems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 463–468 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Tasgetiren et al.(2012)Tasgetiren, Bulut, and Fadiloglu] M. Fatih Tasgetiren, Onder Bulut, and M. Murat Fadiloglu. *A Discrete Harmony Search Algorithm for the Economic Lot Scheduling Problem with Power of Two Policy*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2521–2528 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Tasoulis et al.(2012)Tasoulis, Epitropakis, Plagianakos, and Tasoulis] Sotiris Tasoulis, Michael Epitropakis, Vassilis Plagianakos, and Dimitris Tasoulis. *Density Based Projection Pursuit Clustering*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3643–3650 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Ter-Sarkisov(2012)] Aram Ter-Sarkisov. *Elitism Levels Traverse Mechanism For The Derivation of Upper Bounds on Unimodal Functions*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 617–624 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Thompson and Congdon(2012)] Jeffrey A. Thompson and Clare Bates Congdon. *GAMID: Using Genetic Algorithms for the Inference of DNA Motifs That Are Represented in Only a Subset of Sequences of Interest*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1301–1308 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Toda et al.(2012)Toda, Narita, and Kubota] Yuichiro Toda, Tsubasa Narita, and Naoyuki Kubota. *Information Visualization based on 3D Modeling for Human-friendly Teleoperation*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3623–3629 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Trivedi et al.(2012)Trivedi, Sharma, and Srinivasan] Anupam Trivedi, Deepak Sharma, and Dipti Srinivasan. *Multi-objectivization of Short-Term Unit Commitment under Uncertainty using Evolutionary Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 271–278 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Tsai et al.(2012)Tsai, Chen, and ping Chen] Pei-Chuan Tsai, Chih-Ming Chen, and Ying ping Chen. *Sparse Degrees Analysis for LT Codes Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1010–1015 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Tsuji et al.(2012)Tsuji, Sato, Tanabe, Inagaki, and Hashimoto] Miwako Tsuji, Mitsuhisa Sato, Akifumi Tanabe, Yuji Inagaki, and Tetsuo Hashimoto. *An Asynchronous Parallel Genetic Algorithm for the Maximum Likelihood Phylogenetic Tree Search*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2349–2356 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Tsutsui and Fujimoto(2012)] Shigeyoshi Tsutsui and Noriyuki Fujimoto. *Implementation of Histogram Based Sampling Algorithm within an EDA Scheme with CUDA*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1247–1254 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Tusar et al.(2012)Tusar, Dovgan, and Filipic] Tea Tusar, Erik Dovgan, and Bogdan Filipic. *Evolutionary Scheduling of Flexible Offers for Electricity Supply and Demand*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1160–1167 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Uchitane and Hatanaka(2012)] Takeshi Uchitane and Toshiharu Hatanaka. *Experimental Study for Multi-Objective PSO with Single Objective Guide Selection*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 684–689 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Ulker and Landa-Silva(2012)] Ozgur Ulker and Dario Landa-Silva. *Evolutionary Local Search for Solving the Office Space Allocation Problem*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3615–3622 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Unemi(2012)] Tatsuo Unemi. *SBArt4 for an Automatic Evolutionary Art*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2605–2612 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Vahdat et al.(2012)Vahdat, Heywood, and Zincir-Heywood] Ali Vahdat, Malcolm I. Heywood, and A. Nur Zincir-Heywood. *Symbiotic Evolutionary Subspace Clustering*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2845–2852 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Valsecchi et al.(2012)Valsecchi, Damas, and Santamaria] Andrea Valsecchi, Sergio Damas, and Jose Santamaria. *An Image Registration Approach using Genetic Algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1450–1457 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Vanucci et al.(2012)Vanucci, Bicalho, Carrano, and Takahashi] Sanderson Vanucci, Rafael Bicalho, Eduardo Carrano, and Ricardo Takahashi. *A Modified NSGA-II for the Multiobjective Multi-mode Resource-Constrained Project Scheduling Problem*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 728–734 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Vasicek and Sekanina(2012)] Zdenek Vasicek and Lukas Sekanina. *On Area Minimization of Complex Combinational Circuits Using Cartesian Genetic Programming*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 825–832 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Vathsavayi et al.(2012)Vathsavayi, Raiha, and Koskimies] Sriharsha Vathsavayi, Outi Raiha, and Kai Koskimies. *Using Quality Farms in Multi-Objective Genetic Software Architecture Synthesis*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 609–616 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Vazquez-Fernandez et al.(2012)Vazquez-Fernandez, Coello, and Sagols] Eduardo Vazquez-Fernandez, Carlos Coello, and Feliu Sagols. *An Evolutionary Algorithm coupled with the Hooke-Jeeves Algorithm for Tuning a Chess Evaluation Function*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1255–1262 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Vazquez-Rodriguez et al.(2012)Vazquez-Rodriguez, Gomollon, Varela, and Paz-Lopez] Santiago Vazquez-Rodriguez, Jesus A. Gomollon, Gervasio Varela, and Alejandro Paz-Lopez. *Non-Observability Analysis by Means of an Evolutionary Technique in Measured Electric Power Systems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 988–994 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Veeramachaneni et al.(2012)Veeramachaneni, Wagner, O'Reilly, and Neumann] Kalyan Veeramachaneni, Markus Wagner, Una-May O'Reilly, and Frank Neumann. *Optimizing Energy Output and Layout Costs for Large Wind Farms using Particle Swarm Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3540–3546 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Vieira et al.(2012)Vieira, Mendonca, Farinha, and Sousa] Susana Vieira, Luis Mendonca, Goncalo Farinha, and Joao Sousa. *Metaheuristics for feature selection: application to sepsis outcome prediction*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 934–941 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Vitorino et al.(2012)Vitorino, Ribeiro, and Bastos-Filho] Lumadaiaara Vitorino, Sergio Ribeiro, and Carmelo Bastos-Filho. *A Hybrid Swarm Intelligence Optimizer based on Particles and Artificial Bees for High-Dimensional Search Spaces*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 23–28 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Wan et al.(2012)Wan, Xiong, and Liu] Shuzhen Wan, Shengwu Xiong, and Yi Liu. *Prediction based Multi-strategy Differential Evolution Algorithm for Dynamic Environments*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 640–647 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Wang et al.(2012a)Wang, Yang, Chen, and Zhao] Lin Wang, Bo Yang, Yuehui Chen, and Xiuyang Zhao. *Predict the Hydration of Portland Cement using Differential Evolution*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3443–3447 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Wang et al.(2012b)Wang, Xu, Mabu, and Hirasawa] Lutao Wang, Wei Xu, Shingo Mabu, and Kotaro Hirasawa. *Rule Accumulation Method Based on Credit Genetic Network Programming*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3651–3658 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Wang et al.(2012c)Wang, Wu, and Fyfe] Tzai-Der Wang, Xiaochuan Wu, and Colin Fyfe. *Comparative Study of Visualisation Methods for Temporal Data*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1052–1056 (Brisbane, Australia, 2012c). ISBN 0-7803-8515-2.
- [Wang and Tang(2012)] Xianpeng Wang and Lixin Tang. *Multi-objective optimization using a hybrid differential evolution algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2081–2088 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Watanabe and Ito(2012)] Daiki Watanabe and Kazuyuki Ito. *Roles of real-world properties in the Baldwin effect*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 399–406 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Weerasinghe and Sofronov(2012)] Madawa Weerasinghe and Georgy Sofronov. *A Modified Cross Entropy Method for Detecting Multiple Change Points in DNA Count Data*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2001–2008 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Wei and Wang(2012)] Jingxuan Wei and Yuping Wang. *Hyper Rectangle Search Based Particle Swarm Algorithm for Dynamic Constrained Multi-Objective Optimization Problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 190–197 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Wei and Fujimura(2012)] Xin Wei and Shigeru Fujimura. *Parallel Quantum Evolutionary Algorithms with Client-Server Model for Multi-Objective Optimization on Discrete Problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3262–3269 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Wen et al.(2012)Wen, Gao, Li, Zhang, and Yang] Long Wen, Liang Gao, Xinyu Li, Guohui Zhang, and Yang Yang. *Application of Free Pattern Search on the Surface Roughness Prediction in End Milling*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 765–770 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Wenping et al.(2012)Wenping, Yuanyuan, Congling, and Jing] Ma Wenping, Huang Yuanyuan, Li Congling, and Liu Jing. *Image Segmentation Based On A Hybrid Immune Memetic Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1679–1686 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Wesolkowski and Wojtaszek(2012)] Slawomir Wesolkowski and Daniel Wojtaszek. *SaFESST: Stochastic Fleet Estimation Under Steady State Tasking via Evolutionary Fleet Scheduling*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1325–1332 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Wesolkowski et al.(2012)] Wesolkowski, Wojtaszek, and Willick] Slawomir Wesolkowski, Daniel Wojtaszek, and Kyle Willick. *Multi-objective Optimization of the Fleet Mix Problem Using the SaFER Model*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2341–2348 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [While and Bradstreet(2012)] Lyndon While and Lucas Bradstreet. *Applying the WFG Algorithm to Calculate Incremental Hypervolumes*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1521–1528 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Williams and Browne(2012)] Henry Williams and Will Browne. *Integration of Learning Classifier Systems with Simultaneous Localisation and Mapping for Autonomous Robotics*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2428–2435 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Wilson et al.(2012a)] Wilson, Harding, Hoeber, Devillers, and Banzhaf] Garnett Wilson, Simon Harding, Orland Hoeber, Rodolphe Devillers, and Wolfgang Banzhaf. *Parallel Exhaustive Search vs. Evolutionary Computation in a Large Real World Network Search Space*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1239–1246 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Wilson et al.(2012b)] Wilson, Leblanc, and Banzhaf] Garnett Wilson, Derek Leblanc, and Wolfgang Banzhaf. *Using Sector Information with Linear Genetic Programming for Intraday Equity Price Trend Analysis*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1071–1078 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Wink et al.(2012)] Wink, Baeck, and Emmerich] Stefan Wink, Thomas Baeck, and Michael Emmerich. *A Meta-Genetic Algorithm for Solving the Capacitated Vehicle Routing Problem*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3635–3642 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Witten and Clancey(2012)] Matthew Witten and Owen Clancey. *An Evolutionary Algorithm for Optimization of Affine Transformation Parameters for Dose Matrix Warping in Patient-Specific Quality Assurance of Radiotherapy Dose Distributions*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 108–111 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Wu et al.(2012a)] Wu, McCall, Corne, and Regnier-Coudert] Yanghui Wu, John McCall, David Corne, and Olivier Regnier-Coudert. *Landscape Analysis for Hyperheuristic Bayesian Network Structure Learning on Unseen Problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3198–3205 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Wu et al.(2012b)] Wu, Ho, Shyu, and Lin] Yi-Ling Wu, Tsu-Feng Ho, Shyong Jian Shyu, and Bertrand M. T. Lin. *Discrete particle swarm optimization for materials acquisition in multi-unit libraries*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 662–668 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Wu et al.(2012c)] Wu, Xu, Chow, and Zhao] Zhou Wu, Lu Xu, T. W. S. Chow, and Mingbo Zhao. *Local Cooperation Delivers Global Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2271–2278 (Brisbane, Australia, 2012c). ISBN 0-7803-8515-2.
- [Xiao and Zuo(2012)] Li Xiao and Xingquan Zuo. *Multi-DEPSO—a DE and PSO Based Hybrid Algorithm in Dynamic Environments*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1601–1607 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Xie et al.(2012)Xie, Song, and Ciesielski] Feng Xie, Andy Song, and Vic Ciesielski. *Event Detection in Time Series by Genetic Programming*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2507–2514 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Xinguo et al.(2012)Xinguo, Xingquan, and Cheng] Shui Xinguo, Zuo Xingquan, and Chen Cheng. *A Cultural Clonal Selection Algorithm based Fast Vehicle Scheduling Approach*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 893–899 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Xiong et al.(2012)Xiong, Abbass, and Shafi] Jian Xiong, Hussein Abbass, and Kamran Shafi. *Multi-Uncertainty Problems (MUP) with Applications to Managing Risk in Resource-Constrained Project Scheduling*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1505–1512 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Xu et al.(2012a)Xu, Lv, Zhou, and Dou] Jiaqing Xu, Qi Lv, Jie Zhou, and Yong Dou. *A Self-Organizing and Self-Adaptive French Flag Organism Based on Lateral Activation Model*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 493–500 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Xu et al.(2012b)Xu, Lam, Li, Li, and Fan] Jin Xu, Albert Y.S. Lam, Victor O.K. Li, Qiwei Li, and Xiaodan Fan. *Short Adjacent Repeat Identification Based on Chemical Reaction Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 601–608 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Xue et al.(2012)Xue, Zhang, and Browne] Bing Xue, Mengjie Zhang, and Will N. Browne. *New Fitness Functions in Binary Particle Swarm Optimisation for Feature Selection*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 779–786 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Yamaguchi et al.(2012)Yamaguchi, Hiroyasu, Nunokawa, Koizumi, Okumura, Yokouchi, Miki, and Yoshimi] Hiroaki Yamaguchi, Tomoyuki Hiroyasu, Sakito Nunokawa, Noriko Koizumi, Naoki Okumura, Hisatake Yokouchi, Mitsunori Miki, and Masato Yoshimi. *Comparison Study of Controlling Bloat Model of GP in Constructing Filter for Cell Image Segmentation Problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3503–3510 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Yan et al.(2012)Yan, Le, Iliyasu, Sun, Garcia, Dong, and Hirota] Fei Yan, Phuc Q. Le, Abdullah M. Iliyasu, Bo Sun, Jesus A. Garcia, Fangyan Dong, and Kaoru Hirota. *Assessing the Similarity of Quantum Images based on Probability Measurements*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1662–1667 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [yan Sun et al.(2012)yan Sun, shan Chen, and ping Ma] Xiao yan Sun, Shan shan Chen, and Xiao ping Ma. *Semi-supervised Ranking SVM-assisted IGA with Hierarchical Evaluations*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3153–3160 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Yang(2012)] Li Yang. *Adaptive Learning Evaluation Model For Evolutionary Art*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2589–2596 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Yang et al.(2012)Yang, Mabu, and Hirasawa] Yang Yang, Shingo Mabu, and Kotaro Hirasawa. *A Multitasks Learning Approach to Autonomous Agent based on Genetic Network Programming*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1937–1943 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Yao et al.(2012)Yao, Gong, Luo, and Li] Xiangjuan Yao, Dunwei Gong, Yongjin Luo, and Ming Li. *Test Data Reduction Based on Dominance Relations of Target Statements*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 743–750 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Yazdani et al.(2012)Yazdani, Akbarzadeh-Totonchi, Nasiri, and Meybodi] Danial Yazdani, Mohammad Reza Akbarzadeh-Totonchi, Babak Nasiri, and Mohammad Reza Meybodi. *A New Artificial Fish Swarm Algorithm for Dynamic Optimization Problems*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1538–1545 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Yeh and Yang(2012)] Chia-Hsuan Yeh and Chun-Yi Yang. *Can learning affect the effectiveness of price limits?* In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1094–1101 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Yeh et al.(2012)Yeh, Yeh, Chou, Chung, and He] Wei-Chang Yeh, Yuan-Ming Yeh, Chun-Hua Chou, Y.Y. Chung, and Xiangjian He. *A Radio Frequency Identification Network Design Methodology for the Decision Problem in Mackay Memorial Hospital Based on Swarm Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 698–704 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Yoo et al.(2012)Yoo, Seok, and Zhang] Jun Hee Yoo, Ho-Sik Seok, and Byoung-Tak Zhang. *Evolutionary Particle Filtering for Sequential Dependency Learning from Video Data*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1608–1615 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Yu et al.(2012a)Yu, Lam, and Li] James J.Q. Yu, Albert Y.S. Lam, and Victor O.K. Li. *Real-Coded Chemical Reaction Optimization with Different Perturbation Functions*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2983–2990 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Yu et al.(2012b)Yu, Li, and Lam] James J.Q. Yu, Victor O.K. Li, and Albert Y.S. Lam. *Sensor Deployment for Air Pollution Monitoring Using Public Transportation System*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 995–1001 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Yuan and Xu(2012)] Yuan Yuan and Hua Xu. *HHS/LNS: An Integrated Search Method for Flexible Job Shop Scheduling*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 811–818 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [yue Qiu et al.(2012)yue Qiu, shi Wu, ping Wang, and Jiang] Fei yue Qiu, Yu shi Wu, Li ping Wang, and Bo Jiang. *Bipolar Preferences Dominance based Evolutionary Algorithm for Many-Objective Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 787–794 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Yuen et al.(2012)Yuen, Gao, Wagner, and Neumann] Joseph Yuen, Sophia Gao, Markus Wagner, and Frank Neumann. *An Adaptive Data Structure for Evolutionary Multi-Objective Algorithms with Unbounded Archives*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1985–1992 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Yusoh and Tang(2012)] Zeratul Mohd Yusoh and Maolin Tang. *Clustering Composite SaaS Components in Cloud Computing using a Grouping Genetic Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2357–2364 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Yuwono et al.(2012a)Yuwono, Su, Moulton, and Nguyen] Mitchell Yuwono, Steven W. Su, Bruce Moulton, and Hung Nguyen. *Fast unsupervised learning method for rapid estimation of cluster centroids*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2139–2146 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Yuwono et al.(2012b)Yuwono, Su, Moulton, and Nguyen] Mitchell Yuwono, Steven W. Su, Bruce Moulton, and Hung Nguyen. *Method for increasing the computation speed of an unsupervised learning approach for data clustering*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3007–3014 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.

- [Zamuda and Brest(2012)] Ales Zamuda and Janez Brest. *Tree Model Reconstruction Innovization Using Multi-objective Differential Evolution*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1616–1623 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Zao et al.(2012)Zao, Hornansky, and Diao] John K. Zao, Martin Hornansky, and Pei-Lun Diao. *Design of Optimal Short-Length LT Codes Using Evolution Strategies*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 152–160 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Zhang and Saunders(2012)] Anhong Zhang and Rob Saunders. *Towards the Evolution of a Language for Creative Design*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1024–1029 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Zhang et al.(2012a)Zhang, Mahfouf, Panoutsos, and Wang] Guangrui Zhang, Mahdi Mahfouf, George Panoutsos, and Shen Wang. *A Multi-objective Particle Swarm Optimization Algorithm with a Dynamic Hypercube Archive, Mutation and Population Competition*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1885–1891 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Zhang et al.(2012b)Zhang, Zhu, and Yan] Hao Zhang, Yunlong Zhu, and Xiaohui Yan. *Multi-Hive Artificial Bee Colony Algorithm for Constrained Multi-Objective Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 554–561 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Zhang and Li(2012)] Kaibo Zhang and Bin Li. *Cooperative Coevolution with Global Search for Large Scale Global Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3031–3037 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Zhang et al.(2012c)Zhang, Li, and Tan] Kaibo Zhang, Bin Li, and Lixiang Tan. *Empirical study of the effect of variable correlation on grouping in Cooperative Coevolutionary Evolutionary Algorithms*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 308–314 (Brisbane, Australia, 2012c). ISBN 0-7803-8515-2.
- [Zhang et al.(2012d)Zhang, He, and Yan] Lifeng Zhang, Rong He, and Mengling Yan. *Heterogeneous double populations based hybrid genetic algorithm design for training feedforward neural networks*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2991–2998 (Brisbane, Australia, 2012d). ISBN 0-7803-8515-2.
- [Zhang and Zhou(2012)] Lifeng Zhang and Chenxi Zhou. *Self Organized Parallel Genetic Algorithm to Automatically Realize Diversified Convergence*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 719–727 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Zhang et al.(2012e)Zhang, Feng, Zhang, and Xiong] Wei Zhang, Xu Feng, Yongjie Zhang, and Xiong Xiong. *Information Diffusion and Its Impacts on Artificial Stock Markets in Learning Process*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1146–1151 (Brisbane, Australia, 2012e). ISBN 0-7803-8515-2.
- [Zhang and Yen(2012)] Weiwei Zhang and Gary Yen. *Immune-inspired Evolutionary Algorithm for Constrained Optimization*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1695–1702 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Zhang et al.(2012f)Zhang, Zhang, and Li] Xiangrong Zhang, Erlei Zhang, and Runxin Li. *Optimized Feature Extraction by Immune Clonal Selection Algorithm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2681–2686 (Brisbane, Australia, 2012f). ISBN 0-7803-8515-2.
- [Zhang and Luo(2012)] Xin Zhang and Wenjian Luo. *Evolutionary Repair for Evolutionary Design of Combinational Logic Circuits*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1473–1480 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.

- [Zhang and Yuen(2012)] Xin Zhang and Shiu Yin Yuen. *Opposition-Based Adaptive Differential Evolution*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1843–1850 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Zhang et al.(2012g)Zhang, Seah, and Sun] Zheng Zhang, Hock Soon Seah, and Jixiang Sun. *A Hybrid Particle Swarm Optimization with Cooperative Method for Multi-Object Tracking*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 1624–1629 (Brisbane, Australia, 2012g). ISBN 0-7803-8515-2.
- [Zhao and Suganthan(2012)] Shi-Zheng Zhao and P. N. Suganthan. *Comprehensive Comparison of Convergence Performance of Optimization Algorithms based on Nonparametric Statistical Tests*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2861–2867 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Zhou et al.(2012)Zhou, Zhang, and Zhang] Aimin Zhou, Qingfu Zhang, and Guixu Zhang. *A Multiobjective Evolutionary Algorithm based on Decomposition and Probability Model*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 3129–3136 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.
- [Zhu et al.(2012a)Zhu, Cao, and Yang] Lin Zhu, Longbing Cao, and Jie Yang. *Multiobjective Evolutionary Algorithm-Based Soft Subspace Clustering*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2837–2844 (Brisbane, Australia, 2012a). ISBN 0-7803-8515-2.
- [Zhu et al.(2012b)Zhu, Liu, Ji, and He] Zexuan Zhu, Wenmin Liu, Zhen Ji, and Shan He. *Memetic Clustering Based on Particle Swarm Optimizer and K-Means*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2905–2910 (Brisbane, Australia, 2012b). ISBN 0-7803-8515-2.
- [Zulvia et al.(2012)Zulvia, Kuo, and Hu] Ferani E. Zulvia, R.J. Kuo, and Tung-Lai Hu. *Solving CVRP with Time Window, Fuzzy Travel Time and Demand Via A Hybrid Ant Colony Optimization and Genetic Algortihm*. In Xiaodong Li (ed.) *Proceedings of the 2012 IEEE Congress on Evolutionary Computation*, pp. 2960–2967 (Brisbane, Australia, 2012). ISBN 0-7803-8515-2.