

## Список литературы

- [1] Banerjee A, Abu-Mahfouz I. Evolutionary Algorithm-based Parameter Identification for Nonlinear Dynamical Systems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1–5.
- [2] Raich A, Fritz K. Benefits of Implicit Redundant Representation Genetic Algorithms for Conceptual Design and Damage Identification. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 6–13.
- [3] Mirmomeni M, Punch W. Co-evolving Data Driven Models and Test Data Sets with the Application to Forecast Chaotic Time Series. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 14–20.
- [4] Yagoubi M, Thobois L, Schoenauer M. Asynchronous Evolutionary Multi-Objective Algorithms with Heterogenous Evaluation Costs. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 21–28.
- [5] Lemonge A, Silva M, Barbosa H. Design Optimization of Geometrically Nonlinear Truss Structures Considering Cardinality Constraints. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 29–36.
- [6] Li X, Li B, Mabu S, Hirasawa K. A Novel Estimation of Distribution Algorithm Using Graph-based Chromosome Representation and Reinforcement Learning. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 37–44.
- [7] Chen SH, Chen MC. Bi-Variate Artificial Chromosomes with Genetic Algorithm for Single Machine Scheduling Problems with Sequence-Dependent Setup Times. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 45–53.
- [8] Pitangui C, Zaverucha G. Inductive Logic Programming Through Estimation of Distribution Algorithm. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 54–61.
- [9] Goncalves AR, Von Zuben FJ. Online learning in estimation of distribution algorithms for dynamic environments. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 62–69.
- [10] Rohlfshagen P, Lucas S. Ms Pac-Man versus Ghost Team CEC 2011 Competition. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 70–77.
- [11] Junqing L, Quanke P, Shengxian X. Flexible Job Shop Scheduling Problems By A Hybrid Artificial Bee Colony Algorithm. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 78–83.
- [12] Ozturk C, Karaboga D. Hybrid Artificial Bee Colony Algorithm for Neural Network Training. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 84–88.

- [13] Akay B, Karaboga D. Wavelet Packets Optimization using Artificial Bee Colony Algorithm. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 89–94.
- [14] Ozcan T, Esnaf S. A Heuristic Approach Based on Artificial Bee Colony Algorithm for Retail Shelf Space Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 95–101.
- [15] Aldridge S, Babb B, Moore F, Peterson M. Improved Reconstruction of Deep Space Images via Genetic Algorithms. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 102–109.
- [16] Yapicioglu H, Smith AE. Disservice Representation Using the Gini Coefficient in Semi-desirable Facility Location Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 110–114.
- [17] Andres C, Llana L, Nunez M. Self-Adaptive Fuzzy-Timed Systems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 115–122.
- [18] Espitia H, Sofrony J. Path planning of mobile robots using potential fields and swarms of Brownian particles. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 123–129.
- [19] wei Gong D, liang Qi C, Zhang Y, Li M. Modified Particle Swarm Optimization for Odor Source Localization of Multi-robot. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 130–136.
- [20] Hiruma H, Fukunaga A, Komiya K, Iba H. Evolving an Effective Robot Tour Guide. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 137–144.
- [21] Jennings A, Ordonez R. Population Based Optimization for Variable Operating Points. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 145–151.
- [22] Jeong IB, Park CS, Na KI, Han S, Kim JH. Particle Swarm Optimization-based Central Patter Generator for Robotic Fish Locomotion. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 152–157.
- [23] Cuccu G, Gomez F, Glasmachers T. Novelty-Based Restarts for Evolution Strategies. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 158–163.
- [24] Fukushima N, Nagata Y, Kobayashi S, Ono I. Proposal of Distance-weighted Exponential Natural Evolution Strategies. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 164–171.
- [25] Parkinson E, Ghandar A, Michalewicz Z, Tuson A. Estimating the Reproductive Potential of Offspring in Evolutionary Heuristics for Combinatorial Optimization Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 172–178.

- [26] Uchitane T, Hatanaka T. Applying Evolution Strategies to Biped Locomotion Learning in RoboCup 3D Soccer Simulation. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 179–185.
- [27] Krause A. Performance of evolving trading strategies with different discount factors. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 186–191.
- [28] Lohpetch D, Corne D. Multiobjective Algorithms for Financial Trading Multiobjective Out-trades Single-Objective. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 192–199.
- [29] Palotti J, Salles T, Pappa GL, Goncalves MA, Meira, Jr W. Assessing Documents’ Credibility with Genetic Programming. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 200–207.
- [30] Qadir O, Liu J, Tempesti G, Timmis J, Tyrrell A. Hardware architecture for a Bidirectional Hetero-Associative Protein Processing Associative Memory. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 208–215.
- [31] Heinrich E, Joost R, Salomon R. Learning from the Barn Owl Auditory System: A Bio-Inspired Localization Hardware Architecture. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 216–221.
- [32] Papa G, Garbolino T. Optimal On-Line Built-In Self-Test Structure for System-Reliability Improvement. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 222–229.
- [33] Zamorano AG, Timmis J, Tyrrell A. A Flexible Decentralised Communication Architecture on a Field Programmable Gate Array for Swarm System Simulations. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 230–237.
- [34] Atkins D, Neshatian K, Zhang M. A Domain Independent Genetic Programming Approach to Automatic Feature Extraction for Image Classification. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 238–245.
- [35] Mahdi S, Mengjie Z, Mark J. Edge Detection Using Constrained Discrete Particle Swarm Optimisation in Noisy Images. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 246–253.
- [36] Fu W, Johnston M, Zhang M. Genetic Programming For Edge Detection: A Global Approach. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 254–261.
- [37] Wong M, He X, chang Yeh W. Image Clustering Using Particle Swarm Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 262–268.
- [38] Vasicek Z, Bidlo M. Evolutionary Design of Robust Noise-Specific Image Filters. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 269–276.

- [39] Kamath U, De Jong K, Shehu A. An Evolutionary-based Approach for Feature Generation: Eukaryotic Promoter Recognition. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 277–284.
- [40] Becker M. Design of Fault Tolerant Networks with Agent-based Simulation of Physarum Polycephalum. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 285–291.
- [41] Ghaffarizadeh A, Ahmadi K, Flann NS. Sorting Unsigned Permutations by Reversals using Multi-Objective Evolutionary Algorithms with Variable Size Individuals. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 292–295.
- [42] Sato Y, Hasegawa N, Sato M. GPU Acceleration for Sudoku Solution with Genetic Operations. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 296–303.
- [43] Garcia-Arenas M, Merelo JJ, Mora AM, Castillo P, Romero G. Assessing speed-ups in commodity cloud storage services for distributed evolutionary algorithms. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 304–311.
- [44] Munetomo M. Realizing Robust and Scalable Evolutionary Algorithms toward Exascale Era. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 312–317.
- [45] Munawar A, Wahib M, Munetomo M, Akama K. Advanced Genetic Algorithm to solve MINLP problems over GPU. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 318–325.
- [46] Okdem S, Karaboga D, Ozturk C. An Application of Wireless Sensor Network Routing based on Artificial Bee Colony Algorithm. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 326–330.
- [47] Garro BA, Sossa H, Vazquez RA. Artificial Neural Network Synthesis by means of Artificial Bee Colony (ABC) Algorithm. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 331–338.
- [48] Oner A, Ozcan S, Dengi D. Optimization of university course scheduling problem with a hybrid artificial bee colony algorithm. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 339–346.
- [49] Tasgetiren MF, Bulut O, Fadiloglu MM. A Discrete Artificial Bee Colony Algorithm For the Economic Lot Scheduling Problem. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 347–353.
- [50] Ayob AFM, Ray T, Smith W. Scenario-based Hydrodynamic Design Optimization of High Speed Planing Craft for Coastal Surveillance. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 354–361.
- [51] Wilcox D, McNabb A, Seppi K. Solving Virtual Machine Packing with a Reordering Grouping Genetic Algorithm. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 362–369.

- [52] Tizzo NP, Coello JMA, Cardozo E. Automatic Composition of Semantic Web Services Using A-Teams with Genetic Agents. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 370–377.
- [53] Poladian L. A Genotype-To-Phenotype Mapping For Microstructured Polymer Optical Fibres. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 378–385.
- [54] Veroneze R, de Franca F, Von Zuben FJ. Assessing the Performance of a Swarm-based Biclustering Technique for Data Imputation. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 386–393.
- [55] Zhang D, Mabu S, Wen F, Hirasawa K. A Sequential Subspace Face Recognition Framework using Genetic-based Clustering. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 394–400.
- [56] Dohare D, Devi VS. Combination of Similarity Measures for Time Series Classification using Genetic Algorithms. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 401–408.
- [57] Ahn EY, Mullen T, Yen J. Evolutionary Based Feature Extraction with Dynamic Mutation. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 409–416.
- [58] Gallagher J, Oppenheimer M. An Improved Evolvable Oscillator for All Flight Mode Control of an Insect-Scale Flapping-Wing Micro Air Vehicle. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 417–425.
- [59] Kijowski M, Gallagher J, Merkle L. Improved Learning in an Evolvable Hardware Hover Controller for an Insect Scale Flapping-Wing Micro Air Vehicle. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 426–431.
- [60] Li R, Etemaadi R, Emmerich M, Chaudron M. An Evolutionary Multiobjective Optimization Approach to Component-Based Software Architecture Design. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 432–439.
- [61] Bremner P, Samie M, Pipe A, Tyrrell A. Multi-Objective Optimisation of Cell-Array Circuit Evolution. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 440–446.
- [62] Kimura S, Matsumura K. Constrained Multimodal Function Optimization using a Simple Evolutionary Algorithm. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 447–454.
- [63] Dobslaw F. Iteration-wise Parameter Learning. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 455–462.
- [64] Greenwood G. On the Value of Operator-Induced Neighborhoods in Fitness Landscapes. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 463–467.

- [65] Doucette J, Heywood M. Revisiting the Acrobot ‘height’ task: An example of Efficient Evolutionary Policy Search under an Episodic Goal Seeking Task. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 468–475.
- [66] Mokom F, Kobti Z. Evolution of Artifact Capabilities. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 476–483.
- [67] De la Fraga LG, Dominguez GML. Robust Detection of Several Circles or Ellipses with Heuristics. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 484–490.
- [68] Nguyen HT, Bhanu B. Tracking Pedestrians with Bacterial Foraging Optimization Swarms. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 491–495.
- [69] Shi Q, Song A. Selective Motion Detection by Genetic Programming. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 496–503.
- [70] Geng J, Liu J. Image Texture Classification using a Multiagent Genetic Clustering Algorithm. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 504–508.
- [71] Daneshyari M, Yen G. Dynamic Optimization using Cultural based PSO. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 509–516.
- [72] Coelho L, Bernert D, Mariani V. A chaotic firefly algorithm applied to reliability-redundancy optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 517–521.
- [73] Mariani V, Luvizotto LG, Klein C, Coelho L. A normative differential evolution approach for estimation of heat transfer coefficient during freezing treatment by inverse analysis. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 522–528.
- [74] de Armas J, Miranda G, Leon C. Two Encoding Schemes for a Multi-Objective Cutting Stock Problem. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 529–536.
- [75] Neto OV, Pacheco MA, Pimentel A, Silveira E. A Parallel Evolutionary Algorithm to Search for Global Minima Geometries of Heterogeneous ab initio Atomic Clusters. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 537–543.
- [76] Neto OV, Bezerra I, Pacheco MA, Pimentel A. Evolutionary Optimization of Sets of Basis Functions for First-Row Atoms by Using Discretization Process. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 544–549.
- [77] Green, II R, Wang L, Alam M, Formato R. Central Force Optimization on a GPU: A Case Study in High Performance Metaheuristics Using Multiple Topologies. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 550–557.

- [78] Liping J, Yuping W. Genetic Algorithm Based on Primal and Dual Theory for Solving Multiobjective Bilevel Linear Programming. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 558–565.
- [79] Rosberg I, Goldbarg E, Goldbarg M. Solving the Light Up with Ant Colony Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 566–573.
- [80] Rivero D, Fernandez-Blanco E, Dorado J, Pazos A. A New Signal Classification Technique by Means of Genetic Algorithms and kNN. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 574–579.
- [81] Rivero D, Fernandez-Blanco E, Dorado J, Pazos A. Using Recurrent ANNs for the Detection of Epileptic Seizures in EEG Signals. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 580–585.
- [82] Asconavieta P, Goldbarg M, Goldbarg E. Evolutionary Algorithm for the Car Renter Salesman. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 586–593.
- [83] Menezes L, Coelho A. On Ensembles of Biclusters Generated by NichePSO. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 594–600.
- [84] Hijaze M, Corne D. Distributed Evolutionary Algorithm Topologies with Adaptive Migration Schemes. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 601–608.
- [85] Lotif M, Coelho A. Visually Inspecting the Search Behavior of Harmony Search and its Variants with Viz3D. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 609–616.
- [86] Cardamone L, Mocci A, Ghezzi C. Dynamic Synthesis of Program Invariants using Genetic Programming. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 617–624.
- [87] de Franca F, Von Zuben FJ. Extracting additive and multiplicative coherent biclusters with swarm intelligence. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 625–631.
- [88] Gonzalez-Pardo A, Camacho D. Analysis of Grammatical Evolution Approaches to Regular Expression Induction. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 632–639.
- [89] Estevez J, Toledo P, Alayon S. Using an Induced Relational Decision Tree for Rule Injection in a Learning Classifier System. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 640–647.
- [90] Khan M, Ayob A, Isaacs A, Ray T. A Novel Evolutionary Approach for 2D Shape Matching Based on B-Spline Modeling. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 648–654.

- [91] Hamada N, Nagata Y, Kobayashi S, Ono I. On Scalability of Adaptive Weighted Aggregation for Multiobjective Function Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 655–664.
- [92] Vazquez RA. Training Spiking Neural Models using Cuckoo Search Algorithm. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 665–672.
- [93] Oiso M, Matsumura Y, Yasuda T, Ohkura K. Accelerating Steady-State Genetic Algorithms based on CUDA Architecture. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 673–678.
- [94] Dos Santos EM, Sabourin R. Classifier Ensembles Optimization Guided by Population Oracle. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 679–684.
- [95] Lee B, Seok HS, Zhang BT. Evolving a Population Code for Multimodal Concept Learning. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 685–692.
- [96] Carpentieri M. On Robustness of Permutations Sequencing Operators: Solving Satisfiability of Random 3-CNFs by Simple Crossover. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 693–700.
- [97] Lugo-Cordero H, Fuentes-Rivera A, Guha R, Ortiz-Rivera E. Particle Swarm Optimization for Load Balancing in Green Smart Homes. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 701–706.
- [98] Hassanein O, Anavatti S, Ray T. Genetic Fuzzy Controller for Robot Manipulator Position Control based upon Inverse Dynamics. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 707–714.
- [99] Wang Z, Yang R, Wang L, Green, II R, Dounis A. A Fuzzy Adaptive Comfort Temperature Model with Grey Predictor for Multi-agent Control System of Smart Building. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 715–722.
- [100] Ahn EY, Mullen T, Yen J. A Two-Population Evolutionary Algorithm for Feature Extraction: Combining Filter and Wrapper. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 723–730.
- [101] Goh CK, Lim D, Ma L, Ong YS, Dutta P. A Surrogate-Assisted Memetic Co-evolutionary Algorithm for Expensive Constrained Optimization Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 731–736.
- [102] Halder U, Das S, Maity D, Abraham A, Preetam D. Self Adaptive Cluster Based and Weed Inspired Differential Evolution Algorithm For Real World Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 737–743.
- [103] Pradipta G, Hamim Z, Das S, Abraham A. Hierarchical Dynamic Neighborhood Based Particle Swarm Optimization for Global Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 744–751.



- [104] Nasir M, Mondal A, Sengupta S, Das S, Abraham A. An Improved Multiobjective Evolutionary Algorithm based on Decomposition with Fuzzy Dominance. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 752–759.
- [105] Silva D, Pacifico L, Ludermir T. An Evolutionary Extreme Learning Machine Based on Group Search Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 760–766.
- [106] Haidar A, Noman K, Al-Jawfi R, Aziz HA. An Intelligent Placement of Distributed Capacitance based on Loss Minimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. New Orleans, USA: IEEE Computational Intelligence Society. 2011; pp. 767–771.
- [107] Ross B. Evolution of Stochastic Bio-Networks Using Summed Rank Strategies. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 772–779.
- [108] Ashlock D, Shiller E, Lee C. Comparison of Evolved Epidemic Networks with Diffusion Characters. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 780–787.
- [109] Vansant G, Pezzoli P, Monforte J, Fogel G. High-Throughput Toxicological Classification of Candidate Drug Compounds Using Gene Expression, Evolved Neural Networks, and a Cell-based Platform. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 788–794.
- [110] Kromer P, Platos J, Snasel V. Differential Evolution for the Linear Ordering Problem Implemented on CUDA. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 795–801.
- [111] Wahib M, Munawar A, Munetomo M, Akama K. Optimization of Parallel Genetic Algorithms for nVidia GPUs. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 802–810.
- [112] Tsutsui S, Fujimoto N. Fast QAP Solving by ACO with 2-opt Local Search on a GPU. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 811–818.
- [113] Gong Y, Fukunaga A. Distributed Island-Model Genetic Algorithms Using Heterogeneous Parameter Settings. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 819–826.
- [114] Ashlock D, Nguyen S. Financial Control of the Evolution of Autonomous NPCs. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 827–834.
- [115] Piccolo E, Squillero G. Adaptive Opponent Modelling for the Iterated Prisoner’s Dilemma. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 835–840.
- [116] Vazquez E, Coello Coello CA, Sagols F. An Evolutionary Algorithm for Tuning a Chess Evaluation Function. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 841–847.

- [117] Ashlock D, McGuinness C. Decomposing the Level Generation Problem with Tiles. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 848–855.
- [118] Elsayed S, Sarker R, Essam D. GA with a New Multi-Parent Crossover for Constrained Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 856–863.
- [119] Hamza N, Elsayed S, Sarker R, Essam D. Differential Evolution Combined with Constraint Consensus for Constrained Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 864–871.
- [120] Perez L, Riff MC. New Bounds for the Relaxed Traveling Tournament Problems using an Artificial Immune Algorithm. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 872–878.
- [121] Clancey O, Witten M. A Memetic Algorithm for Dosimetric Optimization in CyberKnife Robotic Radiosurgical Treatment Planning. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 879–884.
- [122] U M, Ho C, Funk S, Rasheed K. GART: A Genetic Algorithm based Real Time System Scheduler. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 885–892.
- [123] Reynolds A, Abdollahzadeh A, Corne D, Christie M, Davies B, Williams G. A Parallel BOA-PSO Hybrid Algorithm for History Matching. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 893–900.
- [124] Tutum CC, Fan Z. Multi-Criteria Layout Synthesis of MEMS Devices Using Memetic Computing. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 901–907.
- [125] Menezes T. Evolutionary Modeling of a Blog Network. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 908–915.
- [126] Wang P, Tang K, Tsang E, Yao X. A Memetic Genetic Programming with Decision Tree-based Local Search for Classification Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 916–923.
- [127] Junior ZC, Pappa GL. A PSO algorithm for Improving Multi-View Classification. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 924–931.
- [128] Carvalho R, Brunoro G, Pappa GL. HCGA: A Genetic Algorithm for Hierarchical Classification. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 932–939.
- [129] Friedlander A, Neshatian K, Zhang M. Meta-Learning and Feature Ranking Using Genetic Programming for Classification: Variable Terminal Weighting. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 940–947.

- [130] Malago' L, Matteucci M, Pistone G. Stochastic Natural Gradient Descent by Estimation of Empirical Covariances. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 948–955.
- [131] Marti L, Garcia J, Berlanga A, Molina JM. Indicator-based MONEDA: A Comparative Study of Scalability with Respect to Decision Space Dimensions. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 956–963.
- [132] Leal L, Lemos M, Holanda R, Rabelo R, Borges F. A Hybrid Approach Based on Genetic Fuzzy Systems for Wireless Sensor Networks. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 964–971.
- [133] Li B, Li X, Mabu S, Hirasawa K. Variable Size Genetic Network Programming with Binomial Distribution. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 972–979.
- [134] Wu Y, McCall J, Corne D. Fitness Landscape Analysis of Bayesian Network Structure Learning. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 980–987.
- [135] Muehleisen H, Walther T, Tolksdorf R. Multi-Level Indexing in a Distributed Self-Organized Storage System. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 988–993.
- [136] Peterson G, Mayer C, Cousin K. WoLF Ant. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 994–1001.
- [137] Islam MK, Chetty M, Murshed M. Novel Local Improvement Techniques in Clustered Memetic Algorithm for Protein Structure Prediction. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1002–1010.
- [138] Chowdhury AR, Chetty M. An Improved Method to Infer Gene Regulatory Network using S-System. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1011–1018.
- [139] Corns S. On the Effects of Graph Based Evolutionary Algorithms for Training Finite State Classifiers. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1019–1025.
- [140] LaTorre A, Muelas S, Pena JM. Benchmarking a Hybrid DE-RHC Algorithm on Real World Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1026–1032.
- [141] Elsayed S, Sarker R, Essam D. GA with a New Multi-Parent Crossover for Solving IEEE-CEC2011 Competition Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1033–1039.
- [142] Elsayed S, Sarker R, Essam D. Differential Evolution with Multiple Strategies for Solving CEC2011 Real-world Numerical Optimization Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1040–1047.

- [143] Saha A, Ray T. How does the good old Genetic Algorithm fare at Real World Optimization? In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1048–1055.
- [144] Asafuddoula M, Ray T, Sarker R. An Adaptive Differential Evolution Algorithm and its Performance on Real World Optimization Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1056–1061.
- [145] Ashlock D, Kuusela C, Cojocar M. Shopkeeper Strategies in the Iterated Prisoner’s Dilemma. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1062–1069.
- [146] Parker G, Fritzsche P. Fitness Biasing for Evolving an Xpilot Combat Agent. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1070–1075.
- [147] Dziuk A, Miikkulainen R. Creating Intelligent Agents through Shaping of Coevolution. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1076–1082.
- [148] Avery P, Togelius J, Elvis A, van Leeuwen RP. Computational Intelligence and Tower Defence Games. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1083–1090.
- [149] Liang F, Yew-Soon O, Ah-Hwee T, Xian-Shun C. Towards Human-like Social Multi-agents with Memetic Automaton. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1091–1098.
- [150] Carina V, Geoff N, van Heerden W. Evolution of a Fictional Dialogue. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1099–1106.
- [151] Ashlock D, Brown J. Fitness Functions for Searching the Mandelbrot Set. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1107–1114.
- [152] Brown JA, Ashlock D, Houghten S, Orth J. Autogeneration of Fractal Photographic Mosaic Images. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1115–1122.
- [153] Fernandes CM, Isidoro C, Barata F, Rosa AC, Merelo JJ. From Pherographia to Color Pherographia - Color Sketching with Artificial Ants. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1123–1130.
- [154] Nairat M, Dahlstedt P, Nordahl M. Character Evolution Approach to Generative Storytelling. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1131–1136.
- [155] Segredo E, Segura C, Leon C. A Multiobjectivised Memetic Algorithm for the Frequency Assignment Problem. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1137–1144.
- [156] Coia C, Ross B. Automatic Evolution of Conceptual Building Architectures. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1145–1152.

- [157] Thillainathan L, Srinivasan D. LRGA for Solving Profit based Generation Scheduling Problem in Competitive Environment. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1153–1159.
- [158] Hingston P, Preuss M. Red Teaming with Coevolution. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1160–1168.
- [159] Barrero DF, R-Moreno M, Castano B, Camacho D. An Empirical Study on the Accuracy of Computational Effort in Genetic Programming. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1169–1176.
- [160] Aleshunas J, Janikow C. Cost-benefit Analysis of Using Heuristics in ACGP. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1177–1183.
- [161] Nguyen TH, Nguyen XH, McKay RI. A Study on Genetic Programming with Layered Learning and Incremental Sampling. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1184–1190.
- [162] Downey C, Zhang M. Execution Trace Caching for Linear Genetic Programming. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1191–1198.
- [163] Toledo C, Oliveira R, Franca P. A Hybrid Heuristic Approach to Solve the Multi Level Capacitated Lot Sizing Problem. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1199–1206.
- [164] Pilat M, Neruda R. ASM-MOMA: Multiobjective Memetic Algorithm with Aggregate Surrogate Model. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1207–1213.
- [165] Handoko SD, Kwok CK, Ong YS, Chan J. Classification-assisted Memetic Algorithms for Solving Optimization Problems with Restricted Equality Constraint Function Mapping. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1214–1221.
- [166] Cruz A, Cardoso R, Wanner E, Takahashi R. Using Convex Quadratic Approximation as a Local Search Operator in Evolutionary Multiobjective Algorithms. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1222–1229.
- [167] Ali M, Sallieh A, Snaineh RA, Reynolds R. Boosting Cultural Algorithms with an Incongruous Layered Social Fabric Influence Function. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1230–1237.
- [168] Reynolds R, Liu D. Multi-Objective Cultural Algorithms. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1238–1246.
- [169] Coelho G, de Franca F, Von Zuben FJ. A Concentration-based Artificial Immune Network for Combinatorial Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1247–1254.

- [170] Castro P, Von Zuben FJ. Training Multilayer Perceptrons with a Gaussian Artificial Immune System. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1255–1262.
- [171] Antonakopoulos K, Tufte G. A common genetic representation capable of developing distinct computational architectures. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1263–1270.
- [172] Steiner T, Sendhoff B. Evolvability of Graph- and Vector Field Embryogeny Representations. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1271–1278.
- [173] Eskridge B. Extrapolation of Regularity Using Indirect Encodings. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1279–1286.
- [174] Tsang HH, Jacob C. RNADPCompare: An Algorithm for Comparing RNA Secondary Structures Based on Image Processing Techniques. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1287–1294.
- [175] Marco D, Cairns D, Shankland C. Optimisation of Process Algebra Models Using Evolutionary Computation. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1295–1300.
- [176] Salekdeh AY, Wiese KC. Improving Splice-Junctions Classification employing a Novel Encoding Schema and Decision-Tree. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1301–1306.
- [177] Amaral L, Hruschka E. Transgenic, an operator for Evolutionary Algorithms. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1307–1313.
- [178] Wang Y, Li B, Zhang K. Estimation of Distribution and Differential Evolution Cooperation for Real-world Numerical Optimization Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1314–1320.
- [179] Singh HK, Ray T. Performance of a Hybrid EA-DE-Memetic Algorithm on CEC 2011 Real World Optimization Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1321–1325.
- [180] Korosec P, Silc J. The Continuous Differential Ant-Stigmergy Algorithm Applied to Real-World Optimization Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1326–1333.
- [181] Bandaru S, Tulshyan R, Deb K. Modified SBX and Adaptive Mutation for Real World Single Objective Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1334–1341.
- [182] Schaul T, Sun Y, Wierstra D, Gomez F, Schmidhuber J. Curiosity-Driven Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1342–1348.

- [183] Cobos C, Mendoza M, Leon E. A Hyper-Heuristic Approach To Design And Tuning Heuristic Methods For Web Document Clustering. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1349–1357.
- [184] Falcon R, Almeida M, Nayak A. Fault Identification with Binary Adaptive Fireflies in Parallel and Distributed Systems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1358–1365.
- [185] Chica M, Cordon O, Damas S. Tackling the 1/3 Variant of the Time and Space Assembly Line Balancing Problem by Means of a Multiobjective Genetic Algorithm. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1366–1373.
- [186] Abegaz T, Dozier G, Bryant K, Adams J, Shelton J, Karl R, Woodard D. SSGA and EDA Based Feature Selection and Weighting for Face Recognition. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1374–1380.
- [187] Costa BC, Almeida PEM, Caldeira E. Traffic Lights Timing Inside Microregion Simulator Using Multiobjective Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1381–1386.
- [188] Menzel S. Evolvable Free-Form Deformation Control Volumes for Evolutionary Design Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1387–1394.
- [189] Moritz R, Ulrich T, Thiele L, Buerklen S. Mutation Operator Characterization: Exhaustiveness, Locality, and Bias. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1395–1402.
- [190] Hill S, O’Riordan C. Examining the use of a Non-Trivial Fixed Genotype-Phenotype Mapping in Genetic Algorithms to Induce Phenotypic Variability over Deceptive Uncertain Landscapes. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1403–1410.
- [191] Dymond A, Engelbrecht AP, Heyns S. The sensitivity of single objective optimization algorithm control parameter values under different computational constraints. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1411–1418.
- [192] Ioannides C, Eder K, Barrett G. Improving XCS Performance on Overlapping Binary Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1419–1426.
- [193] Preen RJ, Bull L. Arithmetic Dynamical Genetic Programming in the XCSF Learning Classifier System. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1427–1434.
- [194] Sonstrod C, Johansson U, Konig R. Evolving Accurate and Comprehensible Classification Rules. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1435–1442.
- [195] Johansson U, Sonstrod C, Lofstrom T. One Tree to Explain Them All. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1443–1450.

- [196] Yoon JW, Cho SB. An Efficient Genetic Algorithm with Fuzzy c-Means Clustering for Traveling Salesman Problem. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1451–1455.
- [197] Azuma RM, Coelho G, Von Zuben FJ. Evolutionary Multi-Objective Optimization for the Vendor-Managed Inventory Routing Problem. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1456–1463.
- [198] Ishibuchi H, Akedo N, Ohyanagi H, Nojima Y. Behavior of EMO Algorithms on Many-Objective Optimization Problems with Correlated Objectives. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1464–1471.
- [199] Chiang TC, Lai YP. MOEA/D-AMS: Improving MOEA/D by an Adaptive Mating Selection Mechanism. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1472–1479.
- [200] Adam G, Zbigniew M. Using Cellular Evolution for Diversification of the Balance Between Accurate and Interpretable Fuzzy Knowledge Bases for Classification. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1480–1487.
- [201] Chuan S, Zhenyu Y, Xin P, Yanan C, Bin W. Multi-objective Decisionmaking in the Detection of Comprehensive Community Structures. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1488–1494.
- [202] Ergezer M, Simon D. Oppositional Biogeography-Based Optimization for Combinatorial Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1495–1502.
- [203] Graham L, Borbone J, Parker G. Comparison of a Greedy Selection Operator to Tournament Selection and a Hill Climber. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1503–1507.
- [204] Parker G, Tarimo W. The Effects of Using a Greedy Factor in Hexapod Gait Learning. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1508–1513.
- [205] Handa H. Dimensionality Reduction of Scene and Enemy Information in Mario. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1514–1519.
- [206] Allen M, Fritzsche P. Reinforcement Learning with Adaptive Kanerva Coding for Xpilot Game AI. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1520–1527.
- [207] Parker G, Tarimo W, Cantor M. Quadruped Gait Learning Using Cyclic Genetic Algorithms. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1528–1533.
- [208] Hancock D, Lamont G. Multi Agent System For Network Attack Classification Using Flow-Based Intrusion Detection. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1534–1541.



- [209] Alshammari R, Zincir-Heywood AN. Is Machine Learning losing the battle to produce transportable signatures against VoIP traffic? In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1542–1549.
- [210] Reynoso-Meza G, Sanchis J, Blasco X, Herrero JM. Hybrid DE Algorithm With Adaptive Crossover Operator For Solving Real-World Numerical Optimization Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1550–1555.
- [211] Mallipeddi R, Ponnuthurai NS. Ensemble Differential Evolution Algorithm for CEC2011 Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1556–1563.
- [212] Ankush M, Das AK, Mukherjee P, Das S, Suganthan PN. Modified Differential Evolution with Local Search Algorithm for Real World Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1564–1571.
- [213] Echegoyen C, Zhang Q, Mendiburu A, Santana R, Lozano JA. On the Limits of Effectiveness in Estimation of Distribution Algorithms. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1572–1579.
- [214] Malago’ L, Matteucci M, Valentini G. Introducing l1-regularized Logistic Regression in Markov Networks based EDAs. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1580–1587.
- [215] Valdes JJ, Cheung C, Wang W. Evolutionary Computation Methods for Helicopter Loads Estimation. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1588–1595.
- [216] Zhou L, Zhou A, Zhang G, Shi C. An Estimation of Distribution Algorithm based on Nonparametric Density Estimation. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1596–1603.
- [217] Lopez-Jaimes A, Arias-Montano A, Coello Coello CA. Preference Incorporation to Solve Many-Objective Airfoil Design Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1604–1611.
- [218] Walsh P, Gade P. The Use of an Aesthetic Measure for the Evolution of Fractal Landscapes. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1612–1618.
- [219] Awad M, De Jong K. Optimization of Spectral Signature Selection Using Multi-Objective Genetic Algorithms. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1619–1626.
- [220] Tomforde S, Bramehuber A, Haehner J, Mueller-Schloer C. Restricted On-line Learning in Real-world Systems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1627–1634.

- [221] Wei J, Zhang M. A Memetic Particle Swarm Optimization for Constrained Multi-objective Optimization Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1635–1642.
- [222] Chu W, Gao X, Sorooshian S. Fortify Particle Swam Optimizer (PSO) with Principal Components Analysis—An example in improving bound-handling for optimizing high-dimensional and complex problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1643–1647.
- [223] Seren C. A Hybrid Jumping Particle Swarm Optimization Method for High Dimensional Unconstrained Discrete Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1648–1655.
- [224] Monson C. Simple Adaptive Cognition for PSO. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1656–1663.
- [225] Hwang JW, Lee YS, Cho SB. Structure Evolution of Dynamic Bayesian Network for Traffic Accident Detection. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1664–1670.
- [226] Abramson M, Will I, Mittu R. Hybrid tuning of an evolutionary algorithm for sensor allocation. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1671–1677.
- [227] Chiang WC, Cai G, Xu X, Mudunuri G, Zhu W. Two-Stage Tabu - Particle Swarm Algorithms for the Facility Layout Problem with Size Constraints. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1678–1685.
- [228] LaTorre A, Muelas S, Pena JM, Santana R, Merchan-Perez A. A Differential Evolution Algorithm for the Detection of Synaptic Vesicles. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1686–1693.
- [229] Lepagnot J, Nakib A, Oulhadj H, Siarry P. Brain Cine MRI Segmentation Based on a Multiagent Algorithm for Dynamic Continuous Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1694–1701.
- [230] Abello M, Bui LT, Michalewicz Z. An Adaptive Approach for Solving Dynamic Scheduling with Time-varying Number of Tasks - Part I. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1702–1709.
- [231] Rudolph G. On Geometrically Fast Convergence to Optimal Dominated Hypervolume of Set-based Multiobjective Evolutionary Algorithms. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1718–1722.
- [232] He Z, Yen G. An Ensemble Method for Performance Metrics in Multiobjective Evolutionary Algorithms. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1723–1728.

- [233] Shelokar P, Arnaud Q, Oscar C. Subgraph Mining in Graph-based Data using Multiobjective Evolutionary Programming. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1729–1736.
- [234] Yen LTX, Sharma D, Srinivasan D, Manji PN. A Modified Hybrid Particle Swarm Optimization Approach for Unit Commitment. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1737–1744.
- [235] Zhang H. Assessment of An Evolutionary Particle Swarm Optimizer with Inertia Weight. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1745–1752.
- [236] Zhang H. An Analysis of Multiple Particle Swarm Optimizers with Inertia Weight with Diverisive Curiosity. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1753–1760.
- [237] Tjiong A, Monteiro S. Feature Selection with PSO and Kernel Methods for Hyperspectral Classification. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1761–1768.
- [238] Huo CL, Lai TY, Sun TY. The Preliminary Study on Multi-Swarm Sharing Particle Swarm Optimization: Applied to UAV Path Planning Problem. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1769–1775.
- [239] Li J, Zheng C, Hu X. A Hypervolume Based Approach for Minimal Visual Coverage Shortest Path. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1776–1783.
- [240] Hsieh MN, Chiang TC, Fu LC. A Hybrid Constraint Handling Mechanism with Differential Evolution for Constrained Multiobjective Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1784–1791.
- [241] Shirasaki Y, Shimomura S, Sugimoto M, Uwate Y, Nishio Y. Effectiveness of Guidepost Pheromone for Honeybee Colony Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1792–1797.
- [242] Ye Z, Mohamadian H. Strengthen Accuracy of Feature Recognition via Integration of Ant Colony Detection and Adaptive Contour Tracking. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1798–1803.
- [243] nien Lin C, Huo CL, Lin SY, Yu YH, Sun TY. Taguchi-based Disturbance with Tournament Selection to Improve on MOPSO. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1804–1809.
- [244] Tsujimoto T, Shindo T, Jin’no K. The Neighborhood of Canonical Deterministic PSO. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1810–1816.
- [245] Huang YH, Ting CK. Genetic Algorithm with Path Relinking for the Multi-Vehicle Selective Pickup and Delivery Problem. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1817–1824.

- [246] Khairy M, Fayek MB, Hemayed EE. PSO2: Particle Swarm Optimization with PSO-Based Local Search. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1825–1831.
- [247] Hsieh ST, Chiu SY, Yen SJ. Sharing Mutation Genetic Algorithm for Solving Multi-objective Optimization Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1832–1838.
- [248] Morshed N, Chetty M. Reconstructing Genetic Networks with Concurrent Representation of Instantaneous and Time-Delayed Interactions. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1839–1846.
- [249] Mousavi M, Hoque S, Rahnamayan S, Dincer I, Naterer GF. Optimal Design of an Air-Cooling System for a Li-Ion Battery Pack in an Electric Vehicle with a Genetic Algorithm. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1847–1854.
- [250] Benkhelifa E, Tiwari A, De Rueda AG, Moniri M. Evolutionary Multi-objective Design Optimisation of Energy Harvesting MEMS: The Case of a Piezoelectric. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1855–1862.
- [251] Zhang J, Chen S, Levy D, Lu Y. Feedback Loop Mechanisms based Particle Swarm Optimization with Neighborhood Topology. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1863–1870.
- [252] Mojica-Nava E, Quijano N. A Replicator Dynamics Weighted Control Technique for a DC-DC Converter. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1871–1877.
- [253] Shi EC, Leung FH, Lai JC. An Adaptive Differential Evolution with Unsymmetrical Mutation. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1878–1885.
- [254] Chen PL, Yang MC, Sun TY. PSO-based On-line Tuning PID Controller for Setpoint Changes and Load Disturbance. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1886–1893.
- [255] Parracho P, Neves R, Horta N. Trading with Optimized Uptrend Pattern Template using a Genetic Algorithm Kernel. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1894–1900.
- [256] Lung RI, Dumitrescu D. A New Evolutionary Approach to Minimax Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1901–1904.
- [257] Lin Liu H, Gu F. A improved NSGA-II algorithm based on sub-regional search. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1905–1910.
- [258] Neto AF, Canuto A, Goldberg E, Goldberg M. Optimization Techniques for the Selection of Members and Attributes in Ensemble Systems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1911–1918.

- [259] Oliveira P, Interciso M. Ternary Representation Improves the Search for Binary, One-dimensional Density Classifier Cellular Automata. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1919–1925.
- [260] Scola L, Neto O, Takahashi R, Cerqueira S. Multi-objective Optimal Multiple Reservoir Operation. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1926–1932.
- [261] Leguizamón G, Coello Coello CA. A Multi-Region Differential Evolution Algorithm for Continuous Optimization Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1933–1939.
- [262] Ghosh S, Roy S, Swagatam D, Ajith A, Minhazul I. Peak-to-Average Power Ratio Reduction in OFDM Systems Using an Adaptive Differential Evolution Algorithm. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1940–1948.
- [263] Islam M, Ghosh S, Das S, Abraham A, Roy S. A Modified Discrete Differential Evolution based TDMA Scheduling Scheme for Many to One Communications in Wireless Sensor Networks. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1949–1956.
- [264] Landassuri-Moreno VM, Bullinaria JA. Biasing the Evolution of Modular Neural Networks. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1957–1964.
- [265] Polushina T, Sofronov G. Change-Point Detection in Biological Sequences via Genetic Algorithm. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1965–1970.
- [266] Mallipeddi R, Iacca G, Ponnuthurai NS, Neri F, Mininno E. Ensemble Strategies in Compact Differential Evolution. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1971–1976.
- [267] Hernandez J, Toscano-Pulido G. A Comparison on the Search of Particle Swarm Optimization and Differential Evolution on Multi-Objective Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1977–1984.
- [268] Lu X, Tang K, Yao X. Classification-Assisted Differential Evolution for Computationally Expensive Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1985–1992.
- [269] Prampero PS, Attux R. Magnetic Particle Swarm Optimization with Estimation of Distribution. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 1993–2000.
- [270] Shaban-Nejad A, Haarslev V. An Abstract Representation Model for Evolutionary Analysis of Multi-Agent Interactions. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2001–2008.
- [271] Greenwood G, Chopra S. A Numerical Analysis of the Evolutionary Iterated Snowdrift Game. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2009–2015.

- [272] Fernandez-Ares A, Mora AM, Merelo JJ, Garcia-Sanchez P, Fernandes C. Optimizing Player Behavior In A Real-Time Strategy Game Using Evolutionary Algorithms. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2016–2023.
- [273] Ellefsen KO. Dynamic Robot Scheduling Using a Genetic Algorithm. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2024–2031.
- [274] Azevedo C, Araujo A. Generalized Immigration Schemes for Dynamic Evolutionary Multiobjective Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2032–2039.
- [275] Helbig M, Engelbrecht AP. Archive Management for Dynamic Multi-objective Optimisation Problems using Vector Evaluated Particle Swarm Optimisation. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2040–2047.
- [276] Coulter D, Ehlers E. Biologically Inspired Obsolescence Management in Mobile Agent Systems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2048–2055.
- [277] Alford A, Hansen C, Dozier G, Bryant K, Kelly J, Abegaz T, Ricanek K, Woodard D. GEC-Based Multi-Biometric Fusion. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2056–2059.
- [278] Dias D, Singulani A, Pacheco MA, Souza P, Pires M, Neto OV. Self-Assembly Quantum Dots Growth Prediction by Quantum-Inspired Linear Genetic Programming. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2060–2067.
- [279] Roedland TAL. Classifying Glyphs by Combining Evolution and Learning. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2068–2075.
- [280] Yu JJ, Lam AY, Li VO. Evolutionary Artificial Neural Network Based on Chemical Reaction Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2076–2083.
- [281] Uemura K, ichi Kinoshita S, Nagata Y, Kobayashi S, Ono I. A New Framework taking account of Multi-funnel Functions for Real-coded Genetic Algorithms. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2084–2091.
- [282] Herbawi W, Weber M. Comparison of Multiobjective Evolutionary Algorithms for Solving The Multiobjective Route Planning in Dynamic Multi-hop Ridesharing. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2092–2099.
- [283] Davarynejad M, Rezaei J, Vrancken J, van den Berg J, Coello Coello CA. Accelerating Convergence Towards the Optimal Pareto Front. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2100–2107.
- [284] Garza-Fabre M, Toscano-Pulido G, Coello Coello CA, Rodriguez-Tello E. Effective Ranking + Speciation = Many-Objective Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2108–2115.

- [285] Saha A, Ray T, Smith W. Towards Practical Evolutionary Robust Multi-Objective Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2116–2123.
- [286] McClymont K, Keedwell E. Benchmark Multi-objective Optimisation Test Problems with Mixed Encodings. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2124–2131.
- [287] Lockett A, Miikkulainen R. Measure-Theoretic Evolutionary Annealing. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2132–2139.
- [288] Emmerich M, Deutz A, Klinkenberg JW. Hypervolume-based Expected Improvement: Monotonicity Properties and Exact Computation. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2140–2147.
- [289] Diaz-Manriquez A, Toscano-Pulido G, Gomez-Flores W. On the Selection of Surrogate Models in Evolutionary Optimization Algorithms. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2148–2155.
- [290] Spangenberg J, Tutum CC, Hattel JH, Roussel N, Geiker MR. Optimization of Casting Process Parameters for Homogeneous Aggregate Distribution in Self-Compacting Concrete: A Feasibility Study. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2156–2162.
- [291] Trivedi A, MPindoriya N, Srinivasan D, Sharma D. Improved Multi-objective Evolutionary Algorithm for Day-Ahead Thermal Generation Scheduling. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2163–2170.
- [292] Madeiro S, Galvao E, Cavellucci C, Lyra C, Von Zuben FJ. Simultaneous Capacitor Placement and Reconfiguration for Loss Reduction in Distribution Networks by a Hybrid Genetic Algorithm. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2171–2178.
- [293] Liu H, Qiu A. Space active noise control system design with multi-objective genetic algorithms. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2179–2185.
- [294] Amiri B, Hossain L, Crawford JW. An Efficient Multiobjective Evolutionary Algorithm for Community Detection in Social Networks. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2186–2192.
- [295] Chira C, Gog A. Fitness Evaluation for Overlapping Community Detection in Complex Networks. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2193–2199.
- [296] Naruchitparames J, Gunes M, Louis S. Friend Recommendations in Social Networks using Genetic Algorithms and Network Topology. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2200–2207.
- [297] Takahama T, Sakai S. Efficient Nonlinear Optimization by Differential Evolution with a Rotation-Invariant Local Sampling Operation. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2208–2215.

- [298] Chakraborty U, Das S, Abbott T. Clustering in Mobile Ad Hoc Networks with Differential Evolution. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2216–2221.
- [299] Noman N, Bollegala D, Iba H. An Adaptive Differential Evolution Algorithm. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2222–2229.
- [300] Adra S, Kiran M, McMinn P, Walkinshaw N. A Multiobjective Optimisation Approach For The Dynamic Inference and Refinement Of Agent-Based Model Specifications. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2230–2237.
- [301] Shirazi AS, von Mammen S, Jacob C. Hierarchical Self-Organized Learning in Agent-Based Modeling of the MAPK Signaling Pathway. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2238–2244.
- [302] Al-Khateeb B, Kendall G. The Importance of Look-Ahead Depth in Evolutionary Checkers. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2245–2251.
- [303] Wang L, Mabu S, Hirasawa K. Genetic Network Programming with Updating Rule Accumulation. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2252–2259.
- [304] Goulart N, Dias L, Souza S, Noronha T. Biased Random-key Genetic Algorithm for Fiber Installation in Optical Network Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2260–2264.
- [305] Rocha M, Sa T, Sousa P, Cortez P, Rio M. Multiobjective Evolutionary Algorithms for Intradomain Routing Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2265–2272.
- [306] hui Zhong J, Zhang J. Energy-Efficient Local Wake-up Scheduling in Wireless Sensor Networks. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2273–2277.
- [307] Schroeder A, Wrzodek C, Wollnik J, Draeger A, Wanke D, Berendzen KW, Zell A. Inferring Transcriptional Regulators for Sets of Co-expressed Genes by Multi-objective Evolutionary Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2278–2285.
- [308] Miller C, Moore F, Babb B, Peterson M. Improved Reconstruction of Quantized CT Scans via Genetic Algorithms. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2286–2292.
- [309] Chira C. A Hybrid Evolutionary Approach to Protein Structure Prediction with Lattice Models. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2293–2299.
- [310] Garza-Fabre M, Rodriguez-Tello E, Toscano-Pulido G. Comparing Alternative Energy Functions for the HP Model of Protein Structure Prediction. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2300–2307.



- [311] Kessentini S, Barchiesi D, Grosge T, de la Chapelle ML. Particle swarm optimization and evolutionary methods for plasmonic biomedical applications. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2308–2313.
- [312] Pasti R, Maia RD, Von Zuben FJ, de Castro LN. Heuristics to Avoid Redundant Solutions on Population-Based Multimodal Continuous Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2314–2321.
- [313] Bui LT, Abbass H, Baker S, Barlow M, Bender A. A Grid-Based Heuristic for Two-Dimensional Packing Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2322–2329.
- [314] Grobler J, Engelbrecht AP, Kendall G, Yadavalli V. Investigating the Impact of Alternative Evolutionary Selection Strategies on Multi-method Global Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2330–2337.
- [315] Alimadad A, Dabbaghian V, Singh S, Tsang HH. Modeling HIV Spread through Sexual Contact Using a Cellular Automaton. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2338–2343.
- [316] Legriel J, Cotton S, Maler O. On Universal Search Strategies for Multi-Criteria Optimization Using Weighted Sums. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2344–2351.
- [317] Batista L, Campelo F, Guimaraes F, Ramirez J. A Comparison of Dominance Criteria in Many-Objective Optimization Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2352–2359.
- [318] Martinez SZ, Arias-Montano A, Coello Coello CA. A Nonlinear Simplex Search Approach for Multi-Objective Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2360–2367.
- [319] Hamada N, Nagata Y, Kobayashi S, Ono I. Adaptive Weighted Aggregation 2: More Scalable AWA for Multiobjective Function Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2368–2375.
- [320] Zeng F, James D, Low MYH, Cai W, Hingston P. Studies of Pareto-based Multi-objective Competitive Coevolutionary Dynamics. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2376–2383.
- [321] Rothman D, Luke S, Sullivan K. Do Multiple Trials Help Univariate Methods? In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2384–2391.
- [322] Ly D, Lipson H. Trainer Selection Strategies for Coevolving Rank Predictors. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2392–2399.
- [323] Ibrahimov M, Mohais A, Schellenberg S, Michalewicz Z. Comparison of Different Evolutionary Algorithms for Global Supply Chain Optimisation and Parameter Analysis. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2400–2407.

- [324] Wen Y, Xu H. A Cooperative Coevolution-Based Pittsburgh Learning Classifier System Embedded with Memetic Feature Selection. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2408–2415.
- [325] Dumas L, Rhabi ME, Rochefort G. An Evolutionary Approach For Blind Deconvolution Of Barcode Images With Nonuniform Illumination. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2416–2421.
- [326] Salmani-Jelodar M, Steiger S, Paul A, Klimeck G. Model Development for Lattice Properties of Gallium Arsenide using Parallel Genetic Algorithm. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2422–2428.
- [327] N MRR, Kobti Z. A Machine Operation Lists Based Memetic Algorithm for Job Shop Scheduling. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2429–2436.
- [328] Braun J, Krettek J, Hoffmann F, Bertram T. Structure and Parameter Identification of Nonlinear Systems with an Evolution Strategy. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2437–2444.
- [329] Wang Y, Bin L, Zhen H, Kaibo Z. Enhancing Differential Evolution with Effective Evolutionary Local Search in Memetic Framework. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2445–2452.
- [330] Kia HS, Cristinel A. A new Fault-tolerant and Congestion-aware Adaptive Routing Algorithm for Regular Networks-on-Chip. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2453–2460.
- [331] Xing Y, Mabu S, Hirasawa K. Pruning Generalized Rules for Stock Markets Accumulated by Genetic Network Programming with Rule Accumulation. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2461–2467.
- [332] Chuang YC, Chen CT. A Study on Real-Coded Genetic Algorithm for Process Optimization Using Ranking Selection, Direction-Based Crossover and Dynamic Mutation. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2468–2475.
- [333] Li H, Wang Y. A Real-Binary Coded Genetic Algorithm for Solving Nonlinear Bilevel Programming with Nonconvex Objective Functions. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2476–2480.
- [334] Shindo T, Kurihara T, Taguchi H, Jin’no K. Particle swarm optimization for single phase PWM inverters. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2481–2485.
- [335] Ki-Baek L, Jong-Hwan K. Multi-Objective Particle Swarm Optimization with Preference-based Sorting. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2486–2493.

- [336] Zhong W, Zhang Y, Liu J. Evolutionary Dynamics of Continuous Strategy Games on Social Networks under Weak Selection: A Preliminary Study. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2494–2498.
- [337] Srinivasan D, Ly TT. Co-evolutionary Bidding Strategies for Buyers in Electricity Power Markets. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2499–2506.
- [338] Sharma D, Srinivasan D, Trivedi A. Multi-Agent Approach for Profit Based Unit Commitment. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2507–2513.
- [339] Namura N, Shimoyama K, Jeong S, Obayashi S. Kriging/RBF-Hybrid Response Surface Method for Highly Nonlinear Functions. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2514–2521.
- [340] fang Ji X, wei Gong D, ping Ma X. Solving optimization problems with intervals and hybrid indices using evolutionary algorithms. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2522–2529.
- [341] Masuda K, Yokota H, Kurihara K. An Empirical Study on the Search Directions of Differential Evolution. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2530–2537.
- [342] Kudo F, Tomohiro Y, Takeshi F. A Study on Analysis of Design Variables in Pareto Solutions for Conceptual Design Optimization Problem of Hybrid Rocket Engine. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2538–2542.
- [343] Zhan Z, Zhang J. Orthogonal Learning Particle Swarm Optimization for Power Electronic Circuit Optimization with Free Search Range. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2543–2550.
- [344] Fernandez de Vega F, Chavez de la O F, Fernandez RA, Triguero FH. Musical Genre Classification by means of Fuzzy Rules Based Systems: A preliminary approach. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2551–2557.
- [345] Kameya Y, Prayoonsri C. Pattern-based Preservation of Building Blocks in Genetic Algorithms. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2558–2565.
- [346] Ahmadi-Javid A. Anarchic Society Optimization: A Human-Inspired Method. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2566–2572.
- [347] Seridi K, Jourdan L, Talbi EG. Multi-objective Evolutionary Algorithm for Biclustering in Microarrays Data. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2573–2579.
- [348] Chen Z, Luo P. QISA: Incorporating Quantum Computation into Simulated Annealing for Optimization Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2580–2587.

- [349] Lima N, Ludermit T. Frankenstein PSO Applied to Neural Network Weights and Architectures. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2588–2592.
- [350] Celebi R, Kilic H. Mobile Prisoner’s Dilemma Game Played On Diverse Habitats. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2593–2597.
- [351] Li S, Yuan J. The Modularity in Freeform Evolving Neural Networks. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2598–2603.
- [352] Kim ES, Ha JW, Jung WH, Jang JH, Kwon JS, Byoung-Tak Z. Mutual Information-Based Evolution of Hypernetworks for Brain Data Analysis. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2604–2610.
- [353] Elsayed S, Sarker R, Essam D. Integrated Strategies Differential Evolution Algorithm with a Local Search for Constrained Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2611–2618.
- [354] Wang H, Rahnamayan S, Wu Z. Adaptive Differential Evolution with Variable Population Size for Solving High-Dimensional Problems. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2619–2625.
- [355] Noman N, Iba H. Solving Dynamic Economic Dispatch Problems using Cellular Differential Evolution. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2626–2633.
- [356] Esmailzadeh A, Rahnamayan S. Enhanced Differential Evolution Using Center-Based Sampling. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2634–2641.
- [357] Nagy R, Dumitrescu D, Lung RI. Fuzzy Equilibria for Games Involving  $n > 2$  Players. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2642–2648.
- [358] Sanchez E, Squillero G, Tonda A. Group Evolution: Emerging Synergy through a Coordinated Effort. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2649–2655.
- [359] Merelo JJ, Mora AM, Cotta C. Optimizing worst-case scenario in evolutionary solutions to the MasterMind puzzle. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2656–2663.
- [360] Knittel A, Bossomaier T. Formation and Activation of Feature Hierarchies Under Reinforcement. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2664–2671.
- [361] Ashlock D, Schonfeld J, McNicholas P. Translation Tables: A Genetic Code in an Evolutionary Algorithm. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2672–2679.
- [362] Lehman J, Stanley K. Improving Evolvability through Novelty Search and Self-Adaptation. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2680–2687.

- [363] de Bruyn K, Nitschke G, van Heerden W. Evolutionary Algorithms and Particle Swarm Optimization for Artificial Language Evolution. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2688–2695.
- [364] Dorn M, Buriol LS, Lamb LC. A Hybrid Genetic Algorithm for the 3-D Protein Structure Prediction Problem using a Path-Relinking Strategy. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2696–2703.
- [365] Oh IS, Lee YG, McKay RI. Simulating Chemical Evolution. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2704–2711.
- [366] Alford A, Popplewell K, Dozier G, Bryant K, Kelly J, Adams J, Abegaz T, Shelton J, Ricanek K, Woodard D. A Comparison of GEC-Based Feature Selection and Weighting for Multimodal Biometric Recognition. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2712–2715.
- [367] Kumar P, Skinner S, Sahar D. Nearest-Neighbor Architecture to Overcome the Effects of Qubit Precessions on Gate Operations. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2716–2721.
- [368] Lee JH, Lee B, Kim JS, Deaton R, Zhang BT. A Molecular Evolutionary Algorithm for Learning Hypernetworks on Simulated DNA Computers. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2722–2729.
- [369] Paper not in the database. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; .
- [370] Azevedo C, Araujo A. Correlation Between Diversity and Hypervolume in Evolutionary Multiobjective Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2730–2737.
- [371] Eppe S, Lopez-Ibanez M, Stuetzle T, De Smet Y. An Experimental Study of Preference Model Integration into Multi-Objective Optimization Heuristics. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2738–2745.
- [372] Tantar E, Tantar AA, Pascal B. On dynamic multi-objective optimization, classification and performance measures. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2746–2753.
- [373] Xiong J, Liu J, Chen Y, Abbass H. An Evolutionary Multi-objective Scenario-Based Approach for Stochastic Resource Investment Project Scheduling. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2754–2761.
- [374] Munoz D, Llanos C, Coelho L, Ayala M. Opposition-based Shuffled PSO with Passive Congregation Applied to FM Matching Synthesis. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2762–2768.

- [375] Bandaru S, Tutum CC, Deb K, Hattel JH. Higher-level Innovization: A Case Study from Friction Stir Welding Process Optimization. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2769–2776.
- [376] Sakurai Y, Takada K, Tsukamoto N, Onoyama T, Knauf R, Tsuruta S. A Simple Optimization Method based on Backtrack and GA for Delivery Schedule. In: *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, edited by Smith AE. IEEE Computational Intelligence Society, New Orleans, USA: IEEE Press. 2011; pp. 2777–2784.