

Список литературы

- [11] “Paper not in the database”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Abeg 11] T. Abegaz, G. Dozier, K. Bryant, J. Adams, J. Shelton, R. Karl, and D. Woodard. “SSGA and EDA Based Feature Selection and Weighting for Face Recognition”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1374–1380, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Abel 11] M. Abello, L. T. Bui, and Z. Michalewicz. “An Adaptive Approach for Solving Dynamic Scheduling with Time-varying Number of Tasks - Part I”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1702–1709, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Abra 11] M. Abramson, I. Will, and R. Mittu. “Hybrid tuning of an evolutionary algorithm for sensor allocation”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1671–1677, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Adam 11] G. Adam and M. Zbigniew. “Using Cellular Evolution for Diversification of the Balance Between Accurate and Interpretable Fuzzy Knowledge Bases for Classification”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1480–1487, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Adra 11] S. Adra, M. Kiran, P. McMinn, and N. Walkinshaw. “A Multiobjective Optimisation Approach For The Dynamic Inference and Refinement Of Agent-Based Model Specifications”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2230–2237, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Ahma 11] A. Ahmadi-Javid. “Anarchic Society Optimization: A Human-Inspired Method”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2566–2572, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Ahn 11a] E. Y. Ahn, T. Mullen, and J. Yen. “Evolutionary Based Feature Extraction with Dynamic Mutation”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 409–416, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Ahn 11b] E. Y. Ahn, T. Mullen, and J. Yen. “A Two-Population Evolutionary Algorithm for Feature Extraction: Combining Filter and Wrapper”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 723–730, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Akay 11] B. Akay and D. Karaboga. “Wavelet Packets Optimization using Artificial Bee Colony Algorithm”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 89–94, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Al K 11] B. Al-Khateeb and G. Kendall. “The Importance of Look-Ahead Depth in Evolutionary Checkers”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2245–2251, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Aldr 11] S. Aldridge, B. Babb, F. Moore, and M. Peterson. “Improved Reconstruction of Deep Space Images via Genetic Algorithms”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 102–109, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Ales 11] J. Aleshunas and C. Janikow. “Cost-benefit Analysis of Using Heuristics in ACGP”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1177–1183, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Alfo 11a] A. Alford, C. Hansen, G. Dozier, K. Bryant, J. Kelly, T. Abegaz, K. Ricanek, and D. Woodard. “GEC-Based Multi-Biometric Fusion”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2056–2059, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Alfo 11b] A. Alford, K. Popplewell, G. Dozier, K. Bryant, J. Kelly, J. Adams, T. Abegaz, J. Shelton, K. Ricanek, and D. Woodard. “A Comparison of GEC-Based Feature Selection and Weighting for Multimodal Biometric Recognition”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2712–2715, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Ali 11] M. Ali, A. Salhieh, R. A. Snaineh, and R. Reynolds. “Boosting Cultural Algorithms with an Incongruous Layered Social Fabric Influence Function”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1230–1237, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Alim 11] A. Alimadad, V. Dabbaghian, S. Singh, and H. H. Tsang. “Modeling HIV Spread through Sexual Contact Using a Cellular Automaton”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2338–2343, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Alle 11] M. Allen and P. Fritzsche. “Reinforcement Learning with Adaptive Kanerva Coding for Xpilot Game AI”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1520–1527, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Alsh 11] R. Alshammari and A. N. Zincir-Heywood. “Is Machine Learning losing the battle to produce transportable signatures against VoIP traffic?”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1542–1549, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Amar 11] L. Amaral and E. Hruschka. “Transgenic, an operator for Evolutionary Algorithms”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1307–1313, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Amir 11] B. Amiri, L. Hossain, and J. W. Crawford. “An Efficient Multiobjective Evolutionary Algorithm for Community Detection in Social Networks”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2186–2192, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Andr 11] C. Andres, L. Llana, and M. Nunez. “Self-Adaptive Fuzzy-Timed Systems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 115–122, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Anku 11] M. Ankush, A. K. Das, P. Mukherjee, S. Das, and P. N. Suganthan. “Modified Differential Evolution with Local Search Algorithm for Real World Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1564–1571, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Anto 11] K. Antonakopoulos and G. Tufte. “A common genetic representation capable of developing distinct computational architectures”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1263–1270, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Asaf 11] M. Asafuddoula, T. Ray, and R. Sarker. “An Adaptive Differential Evolution Algorithm and its Performance on Real World Optimization Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1056–1061, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Asco 11] P. Asconavieta, M. Goldbarg, and E. Goldbarg. “Evolutionary Algorithm for the Car Renter Salesman”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 586–593, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Ashl 11a] D. Ashlock and J. Brown. “Fitness Functions for Searching the Mandelbrot Set”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1107–1114, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Ashl 11b] D. Ashlock, C. Kuusela, and M. Cojocar. “Shopkeeper Strategies in the Iterated Prisoner’s Dilemma”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1062–1069, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Ashl 11c] D. Ashlock and C. McGuinness. “Decomposing the Level Generation Problem with Tiles”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 848–855, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Ashl 11d] D. Ashlock and S. Nguyen. “Financial Control of the Evolution of Autonomous NPCs”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 827–834, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Ashl 11e] D. Ashlock, J. Schonfeld, and P. McNicholas. “Translation Tables: A Genetic Code in an Evolutionary Algorithm”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2672–2679, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Ashl 11f] D. Ashlock, E. Shiller, and C. Lee. “Comparison of Evolved Epidemic Networks with Diffusion Characters”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 780–787, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Atki 11] D. Atkins, K. Neshatian, and M. Zhang. “A Domain Independent Genetic Programming Approach to Automatic Feature Extraction for Image Classification”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 238–245, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Aver 11] P. Avery, J. Togelius, A. Elvis, and R. P. van Leeuwen. “Computational Intelligence and Tower Defence Games”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1083–1090, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Awad 11] M. Awad and K. De Jong. “Optimization of Spectral Signature Selection Using Multi-Objective Genetic Algorithms”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1619–1626, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Ayob 11] A. F. M. Ayob, T. Ray, and W. Smith. “Scenario-based Hydrodynamic Design Optimization of High Speed Planing Craft for Coastal Surveillance”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 354–361, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Azev 11a] C. Azevedo and A. Araujo. “Correlation Between Diversity and Hypervolume in Evolutionary Multiobjective Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2730–2737, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Azev 11b] C. Azevedo and A. Araujo. “Generalized Immigration Schemes for Dynamic Evolutionary Multiobjective Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2032–2039, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Azum 11] R. M. Azuma, G. Coelho, and F. J. Von Zuben. “Evolutionary Multi-Objective Optimization for the Vendor-Managed Inventory Routing Problem”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1456–1463, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Band 11a] S. Bandaru, R. Tulshyan, and K. Deb. “Modified SBX and Adaptive Mutation for Real World Single Objective Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1334–1341, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Band 11b] S. Bandaru, C. C. Tutum, K. Deb, and J. H. Hattel. “Higher-level Innovization: A Case Study from Friction Stir Welding Process Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2769–2776, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Bane 11] A. Banerjee and I. Abu-Mahfouz. “Evolutionary Algorithm-based Parameter Identification for Nonlinear Dynamical Systems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1–5, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Barr 11] D. F. Barrero, M. R-Moreno, B. Castano, and D. Camacho. “An Empirical Study on the Accuracy of Computational Effort in Genetic Programming”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1169–1176, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Bati 11] L. Batista, F. Campelo, F. Guimaraes, and J. Ramirez. “A Comparison of Dominance Criteria in Many-Objective Optimization Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2352–2359, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Beck 11] M. Becker. “Design of Fault Tolerant Networks with Agent-based Simulation of Physarum Polycephalum”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 285–291, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Benk 11] E. Benkhelifa, A. Tiwari, A. G. De Rueda, and M. Moniri. “Evolutionary Multi-objective Design Optimisation of Energy Harvesting MEMS: The Case of a Piezoelectric”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1855–1862, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Brau 11] J. Braun, J. Krettek, F. Hoffmann, and T. Bertram. “Structure and Parameter Identification of Nonlinear Systems with an Evolution Strategy”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2437–2444, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Brem 11] P. Bremner, M. Samie, A. Pipe, and A. Tyrrell. “Multi-Objective Optimisation of Cell-Array Circuit Evolution”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 440–446, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Brow 11] J. A. Brown, D. Ashlock, S. Houghten, and J. Orth. “Autogeneration of Fractal Photographic Mosaic Images”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1115–1122, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Bui 11] L. T. Bui, H. Abbass, S. Baker, M. Barlow, and A. Bender. “A Grid-Based Heuristic for Two-Dimensional Packing Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2322–2329, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Card 11] L. Cardamone, A. Mocci, and C. Ghezzi. “Dynamic Synthesis of Program Invariants using Genetic Programming”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 617–624, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Cari 11] V. Carina, N. Geoff, and W. van Heerden. “Evolution of a Fictional Dialogue”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1099–1106, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Carp 11] M. Carpentieri. “On Robustness of Permutations Sequencing Operators: Solving Satisfiability of Random 3-CNFs by Simple Crossover”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 693–700, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Carv 11] R. Carvalho, G. Brunoro, and G. L. Pappa. “HCGA: A Genetic Algorithm for Hierarchical Classification”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 932–939, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Cast 11] P. Castro and F. J. Von Zuben. “Training Multilayer Perceptrons with a Gaussian Artificial Immune System”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1255–1262, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Cele 11] R. Celebi and H. Kilic. “Mobile Prisoner’s Dilemma Game Played On Diverse Habitats”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2593–2597, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Chak 11] U. Chakraborty, S. Das, and T. Abbott. “Clustering in Mobile Ad Hoc Networks with Differential Evolution”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2216–2221, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Chen 11a] P.-L. Chen, M.-C. Yang, and T.-Y. Sun. “PSO-based On-line Tuning PID Controller for Setpoint Changes and Load Disturbance”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1886–1893, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Chen 11b] S.-H. Chen and M.-C. Chen. “Bi-Variate Artificial Chromosomes with Genetic Algorithm for Single Machine Scheduling Problems with Sequence-Dependent Setup Times”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 45–53, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Chen 11c] Z. Chen and P. Luo. “QISA: Incorporating Quantum Computation into Simulated Annealing for Optimization Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2580–2587, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Chia 11a] T.-C. Chiang and Y.-P. Lai. “MOEA/D-AMS: Improving MOEA/D by an Adaptive Mating Selection Mechanism”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1472–1479, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Chia 11b] W.-C. Chiang, G. Cai, X. Xu, G. Mudunuri, and W. Zhu. “Two-Stage Tabu - Particle Swarm Algorithms for the Facility Layout Problem with Size Constraints”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1678–1685, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Chic 11] M. Chica, O. Cordon, and S. Damas. “Tackling the 1/3 Variant of the Time and Space Assembly Line Balancing Problem by Means of a Multiobjective Genetic Algorithm”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1366–1373, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Chir 11a] C. Chira. “A Hybrid Evolutionary Approach to Protein Structure Prediction with Lattice Models”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2293–2299, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Chir 11b] C. Chira and A. Gog. “Fitness Evaluation for Overlapping Community Detection in Complex Networks”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2193–2199, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Chow 11] A. R. Chowdhury and M. Chetty. “An Improved Method to Infer Gene Regulatory Network using S-System”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1011–1018, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Chu 11] W. Chu, X. Gao, and S. Sorooshian. “Fortify Particle Swarm Optimizer (PSO) with Principal Components Analysis—An example in improving bound-handling for optimizing high-dimensional and complex problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1643–1647, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Chua 11a] S. Chuan, Y. Zhenyu, P. Xin, C. Yanan, and W. Bin. “Multi-objective Decisionmaking in the Detection of Comprehensive Community Structures”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1488–1494, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Chua 11b] Y.-C. Chuang and C.-T. Chen. “A Study on Real-Coded Genetic Algorithm for Process Optimization Using Ranking Selection, Direction-Based Crossover and Dynamic Mutation”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2468–2475, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Clan 11] O. Clancey and M. Witten. “A Memetic Algorithm for Dosimetric Optimization in CyberKnife Robotic Radiosurgical Treatment Planning”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 879–884, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Cobo 11] C. Cobos, M. Mendoza, and E. Leon. “A Hyper-Heuristic Approach To Design And Tuning Heuristic Methods For Web Document Clustering”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1349–1357, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Coel 11a] G. Coelho, F. de Franca, and F. J. Von Zuben. “A Concentration-based Artificial Immune Network for Combinatorial Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1247–1254, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Coel 11b] L. Coelho, D. Bernert, and V. Mariani. “A chaotic firefly algorithm applied to reliability-redundancy optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 517–521, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Coia 11] C. Coia and B. Ross. “Automatic Evolution of Conceptual Building Architectures”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1145–1152, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Corn 11] S. Corns. “On the Effects of Graph Based Evolutionary Algorithms for Training Finite State Classifiers”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1019–1025, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Cost 11] B. C. Costa, P. E. M. Almeida, and E. Caldeira. “Traffic Lights Timing Inside Microregion Simulator Using Multiobjective Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1381–1386, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Coul 11] D. Coulter and E. Ehlers. “Biologically Inspired Obsolescence Management in Mobile Agent Systems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2048–2055, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Cruz 11] A. Cruz, R. Cardoso, E. Wanner, and R. Takahashi. “Using Convex Quadratic Approximation as a Local Search Operator in Evolutionary Multiobjective Algorithms”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1222–1229, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Cucc 11] G. Cuccu, F. Gomez, and T. Glasmachers. “Novelty-Based Restarts for Evolution Strategies”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 158–163, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Dane 11] M. Daneshyari and G. Yen. “Dynamic Optimization using Cultural based PSO”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 509–516, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Dava 11] M. Davarynejad, J. Rezaei, J. Vrancken, J. van den Berg, and C. A. Coello Coello. “Accelerating Convergence Towards the Optimal Pareto Front”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2100–2107, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [de A 11] J. de Armas, G. Miranda, and C. Leon. “Two Encoding Schemes for a Multi-Objective Cutting Stock Problem”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 529–536, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [de B 11] K. de Bruyn, G. Nitschke, and W. van Heerden. “Evolutionary Algorithms and Particle Swarm Optimization for Artificial Language Evolution”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2688–2695, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [de F 11] F. de Franca and F. J. Von Zuben. “Extracting additive and multiplicative coherent bichusters with swarm intelligence”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 625–631, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [De l 11] L. G. De la Fraga and G. M. L. Dominguez. “Robust Detection of Several Circles or Ellipses with Heuristics”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 484–490, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Dias 11] D. Dias, A. Singulani, M. A. Pacheco, P. Souza, M. Pires, and O. V. Neto. “Self-Assembly Quantum Dots Growth Prediction by Quantum-Inspired Linear Genetic Programming”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2060–2067, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Diaz 11] A. Diaz-Manriquez, G. Toscano-Pulido, and W. Gomez-Flores. “On the Selection of Surrogate Models in Evolutionary Optimization Algorithms”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2148–2155, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Dobs 11] F. Dobslaw. “Iteration-wise Parameter Learning”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 455–462, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Doha 11] D. Dohare and V. S. Devi. “Combination of Similarity Measures for Time Series Classification using Genetic Algorithms”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 401–408, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Dorn 11] M. Dorn, L. S. Buriol, and L. C. Lamb. “A Hybrid Genetic Algorithm for the 3-D Protein Structure Prediction Problem using a Path-Relinking Strategy”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2696–2703, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Dos 11] E. M. Dos Santos and R. Sabourin. “Classifier Ensembles Optimization Guided by Population Oracle”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 679–684, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Douc 11] J. Doucette and M. Heywood. “Revisiting the Acrobot ‘height’ task: An example of Efficient Evolutionary Policy Search under an Episodic Goal Seeking Task”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 468–475, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Down 11] C. Downey and M. Zhang. “Execution Trace Caching for Linear Genetic Programming”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1191–1198, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Duma 11] L. Dumas, M. E. Rhabi, and G. Rochefort. “An Evolutionary Approach For Blind Deconvolution Of Barcode Images With Nonuniform Illumination”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2416–2421, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Dymo 11] A. Dymond, A. P. Engelbrecht, and S. Heyns. “The sensitivity of single objective optimization algorithm control parameter values under different computational constraints”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1411–1418, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Dziu 11] A. Dziuk and R. Miikkulainen. “Creating Intelligent Agents through Shaping of Coevolution”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1076–1082, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Eche 11] C. Echegoyen, Q. Zhang, A. Mendiburu, R. Santana, and J. A. Lozano. “On the Limits of Effectiveness in Estimation of Distribution Algorithms”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1572–1579, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Elle 11] K. O. Ellefsen. “Dynamic Robot Scheduling Using a Genetic Algorithm”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2024–2031, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Elsa 11a] S. Elsayed, R. Sarker, and D. Essam. “Differential Evolution with Multiple Strategies for Solving CEC2011 Real-world Numerical Optimization Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1040–1047, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Elsa 11b] S. Elsayed, R. Sarker, and D. Essam. “GA with a New Multi-Parent Crossover for Constrained Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 856–863, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Elsa 11c] S. Elsayed, R. Sarker, and D. Essam. “GA with a New Multi-Parent Crossover for Solving IEEE-CEC2011 Competition Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1033–1039, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Elsa 11d] S. Elsayed, R. Sarker, and D. Essam. “Integrated Strategies Differential Evolution Algorithm with a Local Search for Constrained Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2611–2618, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Emme 11] M. Emmerich, A. Deutz, and J. W. Klinkenberg. “Hypervolume-based Expected Improvement: Monotonicity Properties and Exact Computation”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2140–2147, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Eppe 11] S. Eppe, M. Lopez-Ibanez, T. Stuetzle, and Y. De Smet. “An Experimental Study of Preference Model Integration into Multi-Objective Optimization Heuristics”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2738–2745, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Erge 11] M. Ergezer and D. Simon. “Oppositional Biogeography-Based Optimization for Combinatorial Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1495–1502, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Eskr 11] B. Eskridge. “Extrapolation of Regularity Using Indirect Encodings”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1279–1286, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Esma 11] A. Esmailzadeh and S. Rahnamayan. “Enhanced Differential Evolution Using Center-Based Sampling”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2634–2641, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Espit 11] H. Espitia and J. Sofrony. “Path planning of mobile robots using potential fields and swarms of Brownian particles”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 123–129, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Este 11] J. Estevez, P. Toledo, and S. Alayon. “Using an Induced Relational Decision Tree for Rule Injection in a Learning Classifier System”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 640–647, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Falc 11] R. Falcon, M. Almeida, and A. Nayak. “Fault Identification with Binary Adaptive Fireflies in Parallel and Distributed Systems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1358–1365, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Fern 11a] C. M. Fernandes, C. Isidoro, F. Barata, A. C. Rosa, and J. J. Merelo. “From Pherographia to Color Pherographia - Color Sketching with Artificial Ants”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1123–1130, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Fern 11b] A. Fernandez-Ares, A. M. Mora, J. J. Merelo, P. Garcia-Sanchez, and C. Fernandes. “Optimizing Player Behavior In A Real-Time Strategy Game Using Evolutionary Algorithms”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2016–2023, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Fern 11c] F. Fernandez de Vega, F. Chavez de la O, R. A. Fernandez, and F. H. Triguero. “Musical Genre Classification by means of Fuzzy Rules Based Systems: A preliminary approach”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2551–2557, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Frie 11] A. Friedlander, K. Neshatian, and M. Zhang. “Meta-Learning and Feature Ranking Using Genetic Programming for Classification: Variable Terminal Weighting”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 940–947, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Fu 11] W. Fu, M. Johnston, and M. Zhang. “Genetic Programming For Edge Detection: A Global Approach”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 254–261, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Fuku 11] N. Fukushima, Y. Nagata, S. Kobayashi, and I. Ono. “Proposal of Distance-weighted Exponential Natural Evolution Strategies”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 164–171, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Gall 11] J. Gallagher and M. Oppenheimer. “An Improved Evolvable Oscillator for All Flight Mode Control of an Insect-Scale Flapping-Wing Micro Air Vehicle”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 417–425, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Garc 11] M. Garcia-Arenas, J. J. Merelo, A. M. Mora, P. Castillo, and G. Romero. “Assessing speed-ups in commodity cloud storage services for distributed evolutionary algorithms”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 304–311, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Garr 11] B. A. Garro, H. Sossa, and R. A. Vazquez. “Artificial Neural Network Synthesis by means of Artificial Bee Colony (ABC) Algorithm”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 331–338, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Garz 11a] M. Garza-Fabre, E. Rodriguez-Tello, and G. Toscano-Pulido. “Comparing Alternative Energy Functions for the HP Model of Protein Structure Prediction”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2300–2307, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Garz 11b] M. Garza-Fabre, G. Toscano-Pulido, C. A. Coello Coello, and E. Rodriguez-Tello. “Effective Ranking + Speciation = Many-Objective Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2108–2115, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Geng 11] J. Geng and J. Liu. “Image Texture Classification using a Multiagent Genetic Clustering Algorithm”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 504–508, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Ghaf 11] A. Ghaffarizadeh, K. Ahmadi, and N. S. Flann. “Sorting Unsigned Permutations by Reversals using Multi-Objective Evolutionary Algorithms with Variable Size Individuals”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 292–295, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Ghos 11] S. Ghosh, S. Roy, D. Swagatam, A. Ajith, and I. Minhazul. “Peak-to-Average Power Ratio Reduction in OFDM Systems Using an Adaptive Differential Evolution Algorithm”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1940–1948, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Goh 11] C. K. Goh, D. Lim, L. Ma, Y. S. Ong, and P. Dutta. “A Surrogate-Assisted Memetic Co-evolutionary Algorithm for Expensive Constrained Optimization Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 731–736, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Gonc 11] A. R. Goncalves and F. J. Von Zuben. “Online learning in estimation of distribution algorithms for dynamic environments”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 62–69, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Gong 11a] Y. Gong and A. Fukunaga. “Distributed Island-Model Genetic Algorithms Using Heterogeneous Parameter Settings”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 819–826, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Gong 11b] D. wei Gong, C. liang Qi, Y. Zhang, and M. Li. “Modified Particle Swarm Optimization for Odor Source Localization of Multi-robot”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 130–136, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Gonz 11] A. Gonzalez-Pardo and D. Camacho. “Analysis of Grammatical Evolution Approaches to Regular Expression Induction”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 632–639, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Goul 11] N. Goulart, L. Dias, S. Souza, and T. Noronha. “Biased Random-key Genetic Algorithm for Fiber Installation in Optical Network Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2260–2264, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Grah 11] L. Graham, J. Borbone, and G. Parker. “Comparison of a Greedy Selection Operator to Tournament Selection and a Hill Climber”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1503–1507, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Gree 11a] R. Green, II, L. Wang, M. Alam, and R. Formato. “Central Force Optimization on a GPU: A Case Study in High Performance Metaheuristics Using Multiple Topologies”. In:

- A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 550–557, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Gree 11b] G. Greenwood. “On the Value of Operator-Induced Neighborhoods in Fitness Landscapes”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 463–467, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Gree 11c] G. Greenwood and S. Chopra. “A Numerical Analysis of the Evolutionary Iterated Snowdrift Game”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2009–2015, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Grob 11] J. Grobler, A. P. Engelbrecht, G. Kendall, and V. Yadavalli. “Investigating the Impact of Alternative Evolutionary Selection Strategies on Multi-method Global Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2330–2337, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Haid 11] A. Haidar, K. Noman, R. Al-Jawfi, and H. A. Aziz. “An Intelligent Placement of Distributed Capacitance based on Loss Minimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 767–771, IEEE Computational Intelligence Society, New Orleans, USA, 5-8 June 2011.
- [Hald 11] U. Halder, S. Das, D. Maity, A. Abraham, and D. Preetam. “Self Adaptive Cluster Based and Weed Inspired Differential Evolution Algorithm For Real World Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 737–743, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Hama 11a] N. Hamada, Y. Nagata, S. Kobayashi, and I. Ono. “Adaptive Weighted Aggregation 2: More Scalable AWA for Multiobjective Function Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2368–2375, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Hama 11b] N. Hamada, Y. Nagata, S. Kobayashi, and I. Ono. “On Scalability of Adaptive Weighted Aggregation for Multiobjective Function Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 655–664, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Hamz 11] N. Hamza, S. Elsayed, R. Sarker, and D. Essam. “Differential Evolution Combined with Constraint Consensus for Constrained Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 864–871, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Hanc 11] D. Hancock and G. Lamont. “Multi Agent System For Network Attack Classification Using Flow-Based Intrusion Detection”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1534–1541, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Hand 11a] H. Handa. “Dimensionality Reduction of Scene and Enemy Information in Mario”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1514–1519, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Hand 11b] S. D. Handoko, C. K. Kwok, Y. S. Ong, and J. Chan. “Classification-assisted Memetic Algorithms for Solving Optimization Problems with Restricted Equality Constraint Function Mapping”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1214–1221, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Hass 11] O. Hassanein, S. Anavatti, and T. Ray. “Genetic Fuzzy Controller for Robot Manipulator Position Control based upon Inverse Dynamics”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 707–714, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [He 11] Z. He and G. Yen. “An Ensemble Method for Performance Metrics in Multiobjective Evolutionary Algorithms”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1723–1728, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Hein 11] E. Heinrich, R. Joost, and R. Salomon. “Learning from the Barn Owl Auditory System: A Bio-Inspired Localization Hardware Architecture”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 216–221, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Helb 11] M. Helbig and A. P. Engelbrecht. “Archive Management for Dynamic Multi-objective Optimisation Problems using Vector Evaluated Particle Swarm Optimisation”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2040–2047, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Herb 11] W. Herbawi and M. Weber. “Comparison of Multiobjective Evolutionary Algorithms for Solving The Multiobjective Route Planning in Dynamic Multi-hop Ridesharing”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2092–2099, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Hern 11] J. Hernandez and G. Toscano-Pulido. “A Comparison on the Search of Particle Swarm Optimization and Differential Evolution on Multi-Objective Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1977–1984, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Hija 11] M. Hijaze and D. Corne. “Distributed Evolutionary Algorithm Topologies with Adaptive Migration Schemes”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 601–608, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Hill 11] S. Hill and C. O’Riordan. “Examining the use of a Non-Trivial Fixed Genotype-Phenotype Mapping in Genetic Algorithms to Induce Phenotypic Variability over Deceptive Uncertain Landscapes”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1403–1410, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Hing 11] P. Hingston and M. Preuss. “Red Teaming with Coevolution”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1160–1168, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Hiru 11] H. Hiruma, A. Fukunaga, K. Komiya, and H. Iba. “Evolving an Effective Robot Tour Guide”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 137–144, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Hsie 11a] M.-N. Hsieh, T.-C. Chiang, and L.-C. Fu. “A Hybrid Constraint Handling Mechanism with Differential Evolution for Constrained Multiobjective Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1784–1791, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Hsie 11b] S.-T. Hsieh, S.-Y. Chiu, and S.-J. Yen. “Sharing Mutation Genetic Algorithm for Solving Multi-objective Optimization Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1832–1838, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Huan 11] Y.-H. Huang and C.-K. Ting. “Genetic Algorithm with Path Relinking for the Multi-Vehicle Selective Pickup and Delivery Problem”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1817–1824, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Huo 11] C.-L. Huo, T.-Y. Lai, and T.-Y. Sun. “The Preliminary Study on Multi-Swarm Sharing Particle Swarm Optimization: Applied to UAV Path Planning Problem”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1769–1775, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Hwan 11] J.-W. Hwang, Y.-S. Lee, and S.-B. Cho. “Structure Evolution of Dynamic Bayesian Network for Traffic Accident Detection”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1664–1670, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Ibra 11] M. Ibrahimov, A. Mohais, S. Schellenberg, and Z. Michalewicz. “Comparison of Different Evolutionary Algorithms for Global Supply Chain Optimisation and Parameter Analysis”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2400–2407, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Ioan 11] C. Ioannides, K. Eder, and G. Barrett. “Improving XCS Performance on Overlapping Binary Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1419–1426, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Ishi 11] H. Ishibuchi, N. Akedo, H. Ohyanagi, and Y. Nojima. “Behavior of EMO Algorithms on Many-Objective Optimization Problems with Correlated Objectives”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1464–1471, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Isla 11a] M. K. Islam, M. Chetty, and M. Murshed. “Novel Local Improvement Techniques in Clustered Memetic Algorithm for Protein Structure Prediction”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1002–1010, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Isla 11b] M. Islam, S. Ghosh, S. Das, A. Abraham, and S. Roy. “A Modified Discrete Differential Evolution based TDMA Scheduling Scheme for Many to One Communications in Wireless Sensor Networks”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1949–1956, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Jenn 11] A. Jennings and R. Ordonez. “Population Based Optimization for Variable Operating Points”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 145–151, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Jeon 11] I.-B. Jeong, C.-S. Park, K.-I. Na, S. Han, and J.-H. Kim. “Particle Swarm Optimization-based Central Patter Generator for Robotic Fish Locomotion”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 152–157, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Ji 11] X. fang Ji, D. wei Gong, and X. ping Ma. “Solving optimization problems with intervals and hybrid indices using evolutionary algorithms”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2522–2529, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Joha 11] U. Johansson, C. Sonstrod, and T. Lofstrom. “One Tree to Explain Them All”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1443–1450, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Juni 11] Z. C. Junior and G. L. Pappa. “A PSO algorithm for Improving Multi-View Classification”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 924–931, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Junq 11] L. Junqing, P. Quanke, and X. Shengxian. “Flexible Job Shop Scheduling Problems By A Hybrid Artificial Bee Colony Algorithm”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 78–83, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Kama 11] U. Kamath, K. De Jong, and A. Shehu. “An Evolutionary-based Approach for Feature Generation: Eukaryotic Promoter Recognition”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 277–284, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Kame 11] Y. Kameya and C. Prayoonsri. “Pattern-based Preservation of Building Blocks in Genetic Algorithms”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2558–2565, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Kess 11] S. Kessentini, D. Barchiesi, T. Grosge, and M. L. de la Chapelle. “Particle swarm optimization and evolutionary methods for plasmonic biomedical applications”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2308–2313, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Khai 11] M. Khairy, M. B. Fayek, and E. E. Hemayed. “PSO2: Particle Swarm Optimization with PSO-Based Local Search”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1825–1831, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Khan 11] M. Khan, A. Ayob, A. Isaacs, and T. Ray. “A Novel Evolutionary Approach for 2D Shape Matching Based on B-Spline Modeling”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 648–654, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Ki B 11] L. Ki-Baek and K. Jong-Hwan. “Multi-Objective Particle Swarm Optimization with Preference-based Sorting”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2486–2493, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Kia 11] H. S. Kia and A. Cristinel. “A new Fault-tolerant and Congestion-aware Adaptive Routing Algorithm for Regular Networks-on-Chip”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2453–2460, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Kijo 11] M. Kijowski, J. Gallagher, and L. Merkle. “Improved Learning in an Evolvable Hardware Hover Controller for an Insect Scale Flapping-Wing Micro Air Vehicle”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 426–431, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Kim 11] E.-S. Kim, J.-W. Ha, W. H. Jung, J. H. Jang, J. S. Kwon, and Z. Byoung-Tak. “Mutual Information-Based Evolution of Hypernetworks for Brain Data Analysis”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2604–2610, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Kimu 11] S. Kimura and K. Matsumura. “Constrained Multimodal Function Optimization using a Simple Evolutionary Algorithm”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 447–454, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Knit 11] A. Knittel and T. Bossomaier. “Formation and Activation of Feature Hierarchies Under Reinforcement”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2664–2671, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Koro 11] P. Korosec and J. Silc. “The Continuous Differential Ant-Stigmergy Algorithm Applied to Real-World Optimization Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1326–1333, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Krau 11] A. Krause. “Performance of evolving trading strategies with different discount factors”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 186–191, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Krom 11] P. Kromer, J. Platos, and V. Snasel. “Differential Evolution for the Linear Ordering Problem Implemented on CUDA”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 795–801, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Kudo 11] F. Kudo, Y. Tomohiro, and F. Takeshi. “A Study on Analysis of Design Variables in Pareto Solutions for Conceptual Design Optimization Problem of Hybrid Rocket Engine”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2538–2542, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Kuma 11] P. Kumar, S. Skinner, and D. Sahar. “Nearest-Neighbor Architecture to Overcome the Effects of Qubit Precessions on Gate Operations”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2716–2721, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Land 11] V. M. Landassuri-Moreno and J. A. Bullinaria. “Biasing the Evolution of Modular Neural Networks”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1957–1964, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [LaTo 11a] A. LaTorre, S. Muelas, and J.-M. Pena. “Benchmarking a Hybrid DE-RHC Algorithm on Real World Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1026–1032, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [LaTo 11b] A. LaTorre, S. Muelas, J.-M. Pena, R. Santana, and A. Merchan-Perez. “A Differential Evolution Algorithm for the Detection of Synaptic Vesicles”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1686–1693, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Leal 11] L. Leal, M. Lemos, R. Holanda, R. Rabelo, and F. Borges. “A Hybrid Approach Based on Genetic Fuzzy Systems for Wireless Sensor Networks”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 964–971, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Lee 11a] B. Lee, H.-S. Seok, and B.-T. Zhang. “Evolving a Population Code for Multimodal Concept Learning”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 685–692, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Lee 11b] J.-H. Lee, B. Lee, J. S. Kim, R. Deaton, and B.-T. Zhang. “A Molecular Evolutionary Algorithm for Learning Hypernetworks on Simulated DNA Computers”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2722–2729, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Legr 11] J. Legriel, S. Cotton, and O. Maler. “On Universal Search Strategies for Multi-Criteria Optimization Using Weighted Sums”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2344–2351, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Legu 11] G. Leguizamón and C. A. Coello Coello. “A Multi-Region Differential Evolution Algorithm for Continuous Optimization Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1933–1939, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Lehm 11] J. Lehman and K. Stanley. “Improving Evolvability through Novelty Search and Self-Adaptation”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2680–2687, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Lemo 11] A. Lemonge, M. Silva, and H. Barbosa. “Design Optimization of Geometrically Nonlinear Truss Structures Considering Cardinality Constraints”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 29–36, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Lepa 11] J. Lepagnot, A. Nakib, H. Oulhadj, and P. Siarry. “Brain Cine MRI Segmentation Based on a Multiagent Algorithm for Dynamic Continuous Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1694–1701, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Li 11a] B. Li, X. Li, S. Mabu, and K. Hirasawa. “Variable Size Genetic Network Programming with Binomial Distribution”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 972–979, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Li 11b] H. Li and Y. Wang. “A Real-Binary Coded Genetic Algorithm for Solving Nonlinear Bilevel Programming with Nonconvex Objective Functions”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2476–2480, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Li 11c] J. Li, C. Zheng, and X. Hu. “A Hypervolume Based Approach for Minimal Visual Coverage Shortest Path”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1776–1783, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Li 11d] R. Li, R. Etemaadi, M. Emmerich, and M. Chaudron. “An Evolutionary Multiobjective Optimization Approach to Component-Based Software Architecture Design”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 432–439, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Li 11e] S. Li and J. Yuan. “The Modularity in Freeform Evolving Neural Networks”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2598–2603, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Li 11f] X. Li, B. Li, S. Mabu, and K. Hirasawa. “A Novel Estimation of Distribution Algorithm Using Graph-based Chromosome Representation and Reinforcement Learning”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 37–44, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Lian 11] F. Liang, O. Yew-Soon, T. Ah-Hwee, and C. Xian-Shun. “Towards Human-like Social Multi-agents with Memetic Automaton”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1091–1098, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Lima 11] N. Lima and T. Ludermir. “Frankenstein PSO Applied to Neural Network Weights and Architectures”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2588–2592, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Lin 11] C. nien Lin, C.-L. Huo, S.-Y. Lin, Y.-H. Yu, and T.-Y. Sun. “Taguchi-based Disturbance with Tournament Selection to Improve on MOPSO”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1804–1809, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Lipi 11] J. Liping and W. Yuping. “Genetic Algorithm Based on Primal and Dual Theory for Solving Multiobjective Bilevel Linear Programming”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 558–565, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Liu 11a] H. lin Liu and F. Gu. “A improved NSGA-II algorithm based on sub-regional search”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1905–1910, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Liu 11b] H. Liu and A. Qiu. “Space active noise control system design with multi-objective genetic algorithms”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2179–2185, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Lock 11] A. Lockett and R. Miikkulainen. “Measure-Theoretic Evolutionary Annealing”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2132–2139, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Lohp 11] D. Lohpetch and D. Corne. “Multiobjective Algorithms for Financial Trading Multiobjective Out-trades Single-Objective”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 192–199, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Lope 11] A. Lopez-Jaimes, A. Arias-Montano, and C. A. Coello Coello. “Preference Incorporation to Solve Many-Objective Airfoil Design Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1604–1611, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Loti 11] M. Lotif and A. Coelho. “Visually Inspecting the Search Behavior of Harmony Search and its Variants with Viz3D”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 609–616, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Lu 11] X. Lu, K. Tang, and X. Yao. “Classification-Assisted Differential Evolution for Computationally Expensive Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1985–1992, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Lugo 11] H. Lugo-Cordero, A. Fuentes-Rivera, R. Guha, and E. Ortiz-Rivera. “Particle Swarm Optimization for Load Balancing in Green Smart Homes”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 701–706, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Lung 11] R. I. Lung and D. Dumitrescu. “A New Evolutionary Approach to Minimax Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1901–1904, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Ly 11] D. Ly and H. Lipson. “Trainer Selection Strategies for Coevolving Rank Predictors”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2392–2399, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Made 11] S. Madeiro, E. Galvao, C. Cavellucci, C. Lyra, and F. J. Von Zuben. “Simultaneous Capacitor Placement and Reconfiguration for Loss Reduction in Distribution Networks by a Hybrid Genetic Algorithm”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2171–2178, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Mahd 11] S. Mahdi, Z. Mengjie, and J. Mark. “Edge Detection Using Constrained Discrete Particle Swarm Optimisation in Noisy Images”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 246–253, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Mala 11a] L. Malago’, M. Matteucci, and G. Pistone. “Stochastic Natural Gradient Descent by Estimation of Empirical Covariances”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 948–955, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Mala 11b] L. Malago’, M. Matteucci, and G. Valentini. “Introducing l1-regularized Logistic Regression in Markov Networks based EDAs”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1580–1587, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Mall 11a] R. Mallipeddi, G. Iacca, N. S. Ponnuthurai, F. Neri, and E. Mininno. “Ensemble Strategies in Compact Differential Evolution”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1971–1976, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Mall 11b] R. Mallipeddi and N. S. Ponnuthurai. “Ensemble Differential Evolution Algorithm for CEC2011 Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1556–1563, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Marc 11] D. Marco, D. Cairns, and C. Shankland. “Optimisation of Process Algebra Models Using Evolutionary Computation”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1295–1300, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Mari 11] V. Mariani, L. G. Luvizotto, C. Klein, and L. Coelho. “A normative differential evolution approach for estimation of heat transfer coefficient during freezing treatment by inverse analysis”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 522–528, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Mart 11a] L. Marti, J. Garcia, A. Berlanga, and J. M. Molina. “Indicator-based MONEDA: A Comparative Study of Scalability with Respect to Decision Space Dimensions”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 956–963, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Mart 11b] S. Z. Martinez, A. Arias-Montano, and C. A. Coello Coello. “A Nonlinear Simplex Search Approach for Multi-Objective Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2360–2367, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Masu 11] K. Masuda, H. Yokota, and K. Kurihara. “An Empirical Study on the Search Directions of Differential Evolution”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2530–2537, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [McCl 11] K. McClymont and E. Keedwell. “Benchmark Multi-objective Optimisation Test Problems with Mixed Encodings”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2124–2131, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Mene 11a] L. Menezes and A. Coelho. “On Ensembles of Biclusters Generated by NichePSO”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 594–600, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Mene 11b] T. Menezes. “Evolutionary Modeling of a Blog Network”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 908–915, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Menz 11] S. Menzel. “Evolvable Free-Form Deformation Control Volumes for Evolutionary Design Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1387–1394, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Mere 11] J. J. Merelo, A. M. Mora, and C. Cotta. “Optimizing worst-case scenario in evolutionary solutions to the MasterMind puzzle”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2656–2663, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Mill 11] C. Miller, F. Moore, B. Babb, and M. Peterson. “Improved Reconstruction of Quantized CT Scans via Genetic Algorithms”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2286–2292, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Mirm 11] M. Mirmomeni and W. Punch. “Co-evolving Data Driven Models and Test Data Sets with the Application to Forecast Chaotic Time Series”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 14–20, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Moji 11] E. Mojica-Nava and N. Quijano. “A Replicator Dynamics Weighted Control Technique for a DC-DC Converter”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1871–1877, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Moko 11] F. Mokom and Z. Kobti. “Evolution of Artifact Capabilities”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 476–483, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Mons 11] C. Monson. “Simple Adaptive Cognition for PSO”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1656–1663, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Mori 11] R. Moritz, T. Ulrich, L. Thiele, and S. Buerklen. “Mutation Operator Characterization: Exhaustiveness, Locality, and Bias”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1395–1402, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Mors 11] N. Morshed and M. Chetty. “Reconstructing Genetic Networks with Concurrent Representation of Instantaneous and Time-Delayed Interactions”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1839–1846, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Mous 11] M. Mousavi, S. Hoque, S. Rahnamayan, I. Dincer, and G. F. Naterer. “Optimal Design of an Air-Cooling System for a Li-Ion Battery Pack in an Electric Vehicle with a Genetic Algorithm”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1847–1854, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Mueh 11] H. Muehleisen, T. Walther, and R. Tolksdorf. “Multi-Level Indexing in a Distributed Self-Organized Storage System”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 988–993, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Muna 11] A. Munawar, M. Wahib, M. Munetomo, and K. Akama. “Advanced Genetic Algorithm to solve MINLP problems over GPU”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 318–325, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Mune 11] M. Munetomo. “Realizing Robust and Scalable Evolutionary Algorithms toward Exascale Era”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 312–317, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Muno 11] D. Munoz, C. Llanos, L. Coelho, and M. Ayala. “Opposition-based Shuffled PSO with Passive Congregation Applied to FM Matching Synthesis”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2762–2768, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [N 11] M. R. R. N. and Z. Kobti. “A Machine Operation Lists Based Memetic Algorithm for Job Shop Scheduling”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2429–2436, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Nagy 11] R. Nagy, D. Dumitrescu, and R. I. Lung. “Fuzzy Equilibria for Games Involving $n > 2$ Players”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2642–2648, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Nair 11] M. Nairat, P. Dahlstedt, and M. Nordahl. “Character Evolution Approach to Generative Storytelling”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1131–1136, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Namu 11] N. Namura, K. Shimoyama, S. Jeong, and S. Obayashi. “Kriging/RBF-Hybrid Response Surface Method for Highly Nonlinear Functions”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2514–2521, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Naru 11] J. Naruchitparames, M. Gunes, and S. Louis. “Friend Recommendations in Social Networks using Genetic Algorithms and Network Topology”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2200–2207, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Nasi 11] M. Nasir, A. Mondal, S. Sengupta, S. Das, and A. Abraham. “An Improved Multiobjective Evolutionary Algorithm based on Decomposition with Fuzzy Dominance”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 752–759, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Neto 11a] A. F. Neto, A. Canuto, E. Goldbarg, and M. Goldbarg. “Optimization Techniques for the Selection of Members and Attributes in Ensemble Systems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1911–1918, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Neto 11b] O. V. Neto, I. Bezerra, M. A. Pacheco, and A. Pimentel. “Evolutionary Optimization of Sets of Basis Functions for First-Row Atoms by Using Discretization Process”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 544–549, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Neto 11c] O. V. Neto, M. A. Pacheco, A. Pimentel, and E. Silveira. “A Parallel Evolutionary Algorithm to Search for Global Minima Geometries of Heterogeneous ab initio Atomic Clusters”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 537–543, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Nguy 11a] H. T. Nguyen and B. Bhanu. “Tracking Pedestrians with Bacterial Foraging Optimization Swarms”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 491–495, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Nguy 11b] T. H. Nguyen, X. H. Nguyen, and R. I. McKay. “A Study on Genetic Programming with Layered Learning and Incremental Sampling”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1184–1190, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Noma 11a] N. Noman, D. Bollegala, and H. Iba. “An Adaptive Differential Evolution Algorithm”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2222–2229, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Noma 11b] N. Noman and H. Iba. “Solving Dynamic Economic Dispatch Problems using Cellular Differential Evolution”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2626–2633, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Oh 11] I. S. Oh, Y.-G. Lee, and R. I. McKay. “Simulating Chemical Evolution”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2704–2711, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Oiso 11] M. Oiso, Y. Matsumura, T. Yasuda, and K. Ohkura. “Accelerating Steady-State Genetic Algorithms based on CUDA Architecture”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 673–678, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Okde 11] S. Okdem, D. Karaboga, and C. Ozturk. “An Application of Wireless Sensor Network Routing based on Artificial Bee Colony Algorithm”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 326–330, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Oliv 11] P. Oliveira and M. Interciso. “Ternary Representation Improves the Search for Binary, One-dimensional Density Classifier Cellular Automata”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1919–1925, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Oner 11] A. Oner, S. Ozcan, and D. Dengi. “Optimization of university course scheduling problem with a hybrid artificial bee colony algorithm”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 339–346, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Ozca 11] T. Ozcan and S. Esnaf. “A Heuristic Approach Based on Artificial Bee Colony Algorithm for Retail Shelf Space Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 95–101, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Oztu 11] C. Ozturk and D. Karaboga. “Hybrid Artificial Bee Colony Algorithm for Neural Network Training”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 84–88, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Palo 11] J. Palotti, T. Salles, G. L. Pappa, M. A. Goncalves, and W. Meira, Jr. “Assessing Documents’ Credibility with Genetic Programming”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 200–207, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Papa 11] G. Papa and T. Garbolino. “Optimal On-Line Built-In Self-Test Structure for System-Reliability Improvement”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 222–229, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Park 11a] G. Parker and P. Fritzsche. “Fitness Biasing for Evolving an Xpilot Combat Agent”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1070–1075, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Park 11b] G. Parker and W. Tarimo. “The Effects of Using a Greedy Factor in Hexapod Gait Learning”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1508–1513, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Park 11c] G. Parker, W. Tarimo, and M. Cantor. “Quadruped Gait Learning Using Cyclic Genetic Algorithms”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1528–1533, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Park 11d] E. Parkinson, A. Ghandar, Z. Michalewicz, and A. Tuson. “Estimating the Reproductive Potential of Offspring in Evolutionary Heuristics for Combinatorial Optimization Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 172–178, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Parr 11] P. Parracho, R. Neves, and N. Horta. “Trading with Optimized Uptrend Pattern Template using a Genetic Algorithm Kernel”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1894–1900, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Past 11] R. Pasti, R. D. Maia, F. J. Von Zuben, and L. N. de Castro. “Heuristics to Avoid Redundant Solutions on Population-Based Multimodal Continuous Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2314–2321, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Pere 11] L. Perez and M.-C. Riff. “New Bounds for the Relaxed Traveling Tournament Problems using an Artificial Immune Algorithm”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 872–878, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Pete 11] G. Peterson, C. Mayer, and K. Cousin. “WoLF Ant”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 994–1001, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Picc 11] E. Piccolo and G. Squillero. “Adaptive Opponent Modelling for the Iterated Prisoner’s Dilemma”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 835–840, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Pila 11] M. Pilat and R. Neruda. “ASM-MOMA: Multiobjective Memetic Algorithm with Aggregate Surrogate Model”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1207–1213, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Pita 11] C. Pitangui and G. Zaverucha. “Inductive Logic Programming Through Estimation of Distribution Algorithm”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 54–61, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Pola 11] L. Poladian. “A Genotype-To-Phenotype Mapping For Microstructured Polymer Optical Fibres”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 378–385, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Polu 11] T. Polushina and G. Sofronov. “Change-Point Detection in Biological Sequences via Genetic Algorithm”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1965–1970, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Prad 11] G. Pradipta, Z. Hamim, S. Das, and A. Abraham. “Hierarchical Dynamic Neighborhood Based Particle Swarm Optimization for Global Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 744–751, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Pram 11] P. S. Prampero and R. Attux. “Magnetic Particle Swarm Optimization with Estimation of Distribution”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1993–2000, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Pree 11] R. J. Preen and L. Bull. “Arithmetic Dynamical Genetic Programming in the XCSF Learning Classifier System”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1427–1434, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Qadi 11] O. Qadir, J. Liu, G. Tempesti, J. Timmis, and A. Tyrrell. “Hardware architecture for a Bidirectional Hetero-Associative Protein Processing Associative Memory”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 208–215, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Raic 11] A. Raich and K. Fritz. “Benefits of Implicit Redundant Representation Genetic Algorithms for Conceptual Design and Damage Identification”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 6–13, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Reyn 11a] A. Reynolds, A. Abdollahzadeh, D. Corne, M. Christie, B. Davies, and G. Williams. “A Parallel BOA-PSO Hybrid Algorithm for History Matching”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 893–900, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Reyn 11b] R. Reynolds and D. Liu. “Multi-Objective Cultural Algorithms”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1238–1246, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Reyn 11c] G. Reynoso-Meza, J. Sanchis, X. Blasco, and J. M. Herrero. “Hybrid DE Algorithm With Adaptive Crossover Operator For Solving Real-World Numerical Optimization Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1550–1555, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Rive 11a] D. Rivero, E. Fernandez-Blanco, J. Dorado, and A. Pazos. “A New Signal Classification Technique by Means of Genetic Algorithms and kNN”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 574–579, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Rive 11b] D. Rivero, E. Fernandez-Blanco, J. Dorado, and A. Pazos. “Using Recurrent ANNs for the Detection of Epileptic Seizures in EEG Signals”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 580–585, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Roch 11] M. Rocha, T. Sa, P. Sousa, P. Cortez, and M. Rio. “Multiobjective Evolutionary Algorithms for Intradomain Routing Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2265–2272, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Roed 11] T. A. L. Roedland. “Classifying Glyphs by Combining Evolution and Learning”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2068–2075, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Rohl 11] P. Rohlfshagen and S. Lucas. “Ms Pac-Man versus Ghost Team CEC 2011 Competition”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 70–77, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Rosb 11] I. Rosberg, E. Goldberg, and M. Goldberg. “Solving the Light Up with Ant Colony Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 566–573, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Ross 11] B. Ross. “Evolution of Stochastic Bio-Networks Using Summed Rank Strategies”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 772–779, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Roth 11] D. Rothman, S. Luke, and K. Sullivan. “Do Multiple Trials Help Univariate Methods?”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2384–2391, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Rudo 11] G. Rudolph. “On Geometrically Fast Convergence to Optimal Dominated Hypervolume of Set-based Multiobjective Evolutionary Algorithms”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1718–1722, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Saha 11a] A. Saha and T. Ray. “How does the good old Genetic Algorithm fare at Real World Optimization?”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1048–1055, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Saha 11b] A. Saha, T. Ray, and W. Smith. “Towards Practical Evolutionary Robust Multi-Objective Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2116–2123, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Saku 11] Y. Sakurai, K. Takada, N. Tsukamoto, T. Onoyama, R. Knauf, and S. Tsuruta. “A Simple Optimization Method based on Backtrack and GA for Delivery Schedule”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2777–2784, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Sale 11] A. Y. Salekdeh and K. C. Wiese. “Improving Splice-Junctions Classification employing a Novel Encoding Schema and Decision-Tree”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1301–1306, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Salm 11] M. Salmani-Jelodar, S. Steiger, A. Paul, and G. Klimeck. “Model Development for Lattice Properties of Gallium Arsenide using Parallel Genetic Algorithm”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2422–2428, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Sanc 11] E. Sanchez, G. Squillero, and A. Tonda. “Group Evolution: Emerging Synergy through a Coordinated Effort”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2649–2655, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Sato 11] Y. Sato, N. Hasegawa, and M. Sato. “GPU Acceleration for Sudoku Solution with Genetic Operations”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 296–303, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Scha 11] T. Schaul, Y. Sun, D. Wierstra, F. Gomez, and J. Schmidhuber. “Curiosity-Driven Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1342–1348, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Schr 11] A. Schroeder, C. Wrzodek, J. Wollnik, A. Draeger, D. Wanke, K. W. Berendzen, and A. Zell. “Inferring Transcriptional Regulators for Sets of Co-expressed Genes by Multi-objective Evolutionary Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2278–2285, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Scol 11] L. Scola, O. Neto, R. Takahashi, and S. Cerqueira. “Multi-objective Optimal Multiple Reservoir Operation”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1926–1932, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Segr 11] E. Segredo, C. Segura, and C. Leon. “A Multiobjectivised Memetic Algorithm for the Frequency Assignment Problem”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1137–1144, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Sere 11] C. Seren. “A Hybrid Jumping Particle Swarm Optimization Method for High Dimensional Unconstrained Discrete Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1648–1655, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Seri 11] K. Seridi, L. Jourdan, and E.-G. Talbi. “Multi-objective Evolutionary Algorithm for Biclustering in Microarrays Data”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2573–2579, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Shab 11] A. Shaban-Nejad and V. Haarslev. “An Abstract Representation Model for Evolutionary Analysis of Multi-Agent Interactions”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2001–2008, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Shar 11] D. Sharma, D. Srinivasan, and A. Trivedi. “Multi-Agent Approach for Profit Based Unit Commitment”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2507–2513, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Shel 11] P. Shelokar, Q. Arnaud, and C. Oscar. “Subgraph Mining in Graph-based Data using Multiobjective Evolutionary Programming”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1729–1736, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Shi 11a] E. C. Shi, F. H. Leung, and J. C. Lai. “An Adaptive Differential Evolution with Unsymmetrical Mutation”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1878–1885, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Shi 11b] Q. Shi and A. Song. “Selective Motion Detection by Genetic Programming”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 496–503, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Shin 11] T. Shindo, T. Kurihara, H. Taguchi, and K. Jin’no. “Particle swarm optimization for single phase PWM inverters”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2481–2485, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Shir 11a] Y. Shirasaki, S. Shimomura, M. Sugimoto, Y. Uwate, and Y. Nishio. “Effectiveness of Guidepost Pheromone for Honeybee Colony Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1792–1797, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Shir 11b] A. S. Shirazi, S. von Mammen, and C. Jacob. “Hierarchical Self-Organized Learning in Agent-Based Modeling of the MAPK Signaling Pathway”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2238–2244, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Silv 11] D. Silva, L. Pacifico, and T. Ludermir. “An Evolutionary Extreme Learning Machine Based on Group Search Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 760–766, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Sing 11] H. K. Singh and T. Ray. “Performance of a Hybrid EA-DE-Memetic Algorithm on CEC 2011 Real World Optimization Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1321–1325, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Sons 11] C. Sonstrod, U. Johansson, and R. König. “Evolving Accurate and Comprehensible Classification Rules”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1435–1442, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Span 11] J. Spangenberg, C. C. Tutum, J. H. Hattel, N. Roussel, and M. R. Geiker. “Optimization of Casting Process Parameters for Homogeneous Aggregate Distribution in Self-Compacting Concrete: A Feasibility Study”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2156–2162, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Srin 11] D. Srinivasan and T. T. Ly. “Co-evolutionary Bidding Strategies for Buyers in Electricity Power Markets”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2499–2506, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Stein 11] T. Steiner and B. Sendhoff. “Evolvability of Graph- and Vector Field Embryogeny Representations”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1271–1278, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Taka 11] T. Takahama and S. Sakai. “Efficient Nonlinear Optimization by Differential Evolution with a Rotation-Invariant Local Sampling Operation”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2208–2215, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Tant 11] E. Tantar, A.-A. Tantar, and B. Pascal. “On dynamic multi-objective optimization, classification and performance measures”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2746–2753, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Tasg 11] M. F. Tasgetiren, O. Bulut, and M. M. Fadiloglu. “A Discrete Artificial Bee Colony Algorithm For the Economic Lot Scheduling Problem”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 347–353, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Thil 11] L. Thillainathan and D. Srinivasan. “LRGA for Solving Profit based Generation Scheduling Problem in Competitive Environment”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1153–1159, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Tizz 11] N. P. Tizzo, J. M. A. Coello, and E. Cardozo. “Automatic Composition of Semantic Web Services Using A-Teams with Genetic Agents”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 370–377, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Tjio 11] A. Tjiong and S. Monteiro. “Feature Selection with PSO and Kernel Methods for Hyperspectral Classification”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1761–1768, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Tole 11] C. Toledo, R. Oliveira, and P. Franca. “A Hybrid Heuristic Approach to Solve the Multi Level Capacitated Lot Sizing Problem”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1199–1206, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Tomf 11] S. Tomforde, A. Brameshuber, J. Haehner, and C. Mueller-Schloer. “Restricted On-line Learning in Real-world Systems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1627–1634, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Triv 11] A. Trivedi, N. M. Pindoriya, D. Srinivasan, and D. Sharma. “Improved Multi-objective Evolutionary Algorithm for Day-Ahead Thermal Generation Scheduling”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2163–2170, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Tsan 11] H. H. Tsang and C. Jacob. “RNADPCompare: An Algorithm for Comparing RNA Secondary Structures Based on Image Processing Techniques”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1287–1294, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Tsuj 11] T. Tsujimoto, T. Shindo, and K. Jin’no. “The Neighborhood of Canonical Deterministic PSO”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1810–1816, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Tsut 11] S. Tsutsui and N. Fujimoto. “Fast QAP Solving by ACO with 2-opt Local Search on a GPU”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 811–818, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Tutu 11] C. C. Tutum and Z. Fan. “Multi-Criteria Layout Synthesis of MEMS Devices Using Memetic Computing”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 901–907, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [U 11] M. U, C. Ho, S. Funk, and K. Rasheed. “GART: A Genetic Algorithm based Real Time System Scheduler”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 885–892, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Uchi 11] T. Uchitane and T. Hatanaka. “Applying Evolution Strategies to Biped Locomotion Learning in RoboCup 3D Soccer Simulation”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 179–185, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Uemu 11] K. Uemura, S. ichi Kinoshita, Y. Nagata, S. Kobayashi, and I. Ono. “A New Framework taking account of Multi-funnel Functions for Real-coded Genetic Algorithms”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2084–2091, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Vald 11] J. J. Valdes, C. Cheung, and W. Wang. “Evolutionary Computation Methods for Helicopter Loads Estimation”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1588–1595, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Vans 11] G. Vansant, P. Pezzoli, J. Monforte, and G. Fogel. “High-Throughput Toxicological Classification of Candidate Drug Compounds Using Gene Expression, Evolved Neural Networks, and a Cell-based Platform”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 788–794, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Vasi 11] Z. Vasicek and M. Bidlo. “Evolutionary Design of Robust Noise-Specific Image Filters”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 269–276, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Vazq 11a] E. Vazquez, C. A. Coello Coello, and F. Sagols. “An Evolutionary Algorithm for Tuning a Chess Evaluation Function”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 841–847, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Vazq 11b] R. A. Vazquez. “Training Spiking Neural Models using Cuckoo Search Algorithm”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 665–672, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Vero 11] R. Veroneze, F. de Franca, and F. J. Von Zuben. “Assessing the Performance of a Swarm-based Biclustering Technique for Data Imputation”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 386–393, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Wahi 11] M. Wahib, A. Munawar, M. Munetomo, and K. Akama. “Optimization of Parallel Genetic Algorithms for nVidia GPUs”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 802–810, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Wals 11] P. Walsh and P. Gade. “The Use of an Aesthetic Measure for the Evolution of Fractal Landscapes”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1612–1618, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Wang 11a] H. Wang, S. Rahnamayan, and Z. Wu. “Adaptive Differential Evolution with Variable Population Size for Solving High-Dimensional Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2619–2625, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Wang 11b] L. Wang, S. Mabu, and K. Hirasawa. “Genetic Network Programming with Updating Rule Accumulation”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2252–2259, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Wang 11c] P. Wang, K. Tang, E. Tsang, and X. Yao. “A Memetic Genetic Programming with Decision Tree-based Local Search for Classification Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 916–923, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Wang 11d] Y. Wang, L. Bin, H. Zhen, and Z. Kaibo. “Enhancing Differential Evolution with Effective Evolutionary Local Search in Memetic Framework”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2445–2452, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Wang 11e] Y. Wang, B. Li, and K. Zhang. “Estimation of Distribution and Differential Evolution Cooperation for Real-world Numerical Optimization Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1314–1320, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Wang 11f] Z. Wang, R. Yang, L. Wang, R. Green, II, and A. Dounis. “A Fuzzy Adaptive Comfort Temperature Model with Grey Predictor for Multi-agent Control System of Smart Building”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 715–722, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Wei 11] J. Wei and M. Zhang. “A Memetic Particle Swarm Optimization for Constrained Multi-objective Optimization Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1635–1642, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Wen 11] Y. Wen and H. Xu. “A Cooperative Coevolution-Based Pittsburgh Learning Classifier System Embedded with Memetic Feature Selection”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2408–2415, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Wilc 11] D. Wilcox, A. McNabb, and K. Seppi. “Solving Virtual Machine Packing with a Reordering Grouping Genetic Algorithm”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 362–369, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Wong 11] M. Wong, X. He, and W. chang Yeh. “Image Clustering Using Particle Swarm Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 262–268, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Wu 11] Y. Wu, J. McCall, and D. Corne. “Fitness Landscape Analysis of Bayesian Network Structure Learning”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 980–987, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Xing 11] Y. Xing, S. Mabu, and K. Hirasawa. “Pruning Generalized Rules for Stock Markets Accumulated by Genetic Network Programming with Rule Accumulation”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2461–2467, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Xion 11] J. Xiong, J. Liu, Y. Chen, and H. Abbass. “An Evolutionary Multi-objective Scenario-Based Approach for Stochastic Resource Investment Project Scheduling”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2754–2761, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Yago 11] M. Yagoubi, L. Thobois, and M. Schoenauer. “Asynchronous Evolutionary Multi-Objective Algorithms with Heterogenous Evaluation Costs”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 21–28, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Yapi 11] H. Yapicioglu and A. E. Smith. “Disservice Representation Using the Gini Coefficient in Semi-desirable Facility Location Problems”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 110–114, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Ye 11] Z. Ye and H. Mohamadian. “Strengthen Accuracy of Feature Recognition via Integration of Ant Colony Detection and Adaptive Contour Tracking”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1798–1803, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Yen 11] L. T. X. Yen, D. Sharma, D. Srinivasan, and P. N. Manji. “A Modified Hybrid Particle Swarm Optimization Approach for Unit Commitment”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1737–1744, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Yoon 11] J.-W. Yoon and S.-B. Cho. “An Efficient Genetic Algorithm with Fuzzy c-Means Clustering for Traveling Salesman Problem”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1451–1455, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Yu 11] J. J. Yu, A. Y. Lam, and V. O. Li. “Evolutionary Artificial Neural Network Based on Chemical Reaction Optimization”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2076–2083, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Zamo 11] A. G. Zamorano, J. Timmis, and A. Tyrrell. “A Flexible Decentralised Communication Architecture on a Field Programmable Gate Array for Swarm System Simulations”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 230–237, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Zeng 11] F. Zeng, D. James, M. Y. H. Low, W. Cai, and P. Hingston. “Studies of Pareto-based Multi-objective Competitive Coevolutionary Dynamics”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2376–2383, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Zhan 11a] Z. Zhan and J. Zhang. “Orthogonal Learning Particle Swarm Optimization for Power Electronic Circuit Optimization with Free Search Range”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2543–2550, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Zhan 11b] D. Zhang, S. Mabu, F. Wen, and K. Hirasawa. “A Sequential Subspace Face Recognition Framework using Genetic-based Clustering”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 394–400, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Zhan 11c] H. Zhang. “An Analysis of Multiple Particle Swarm Optimizers with Inertia Weight with Diverse Curiosity”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1753–1760, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Zhan 11d] H. Zhang. “Assessment of An Evolutionary Particle Swarm Optimizer with Inertia Weight”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1745–1752, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.

- [Zhan 11e] J. Zhang, S. Chen, D. Levy, and Y. Lu. “Feedback Loop Mechanisms based Particle Swarm Optimization with Neighborhood Topology”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1863–1870, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Zhon 11a] J. hui Zhong and J. Zhang. “Energy-Efficient Local Wake-up Scheduling in Wireless Sensor Networks”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2273–2277, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Zhon 11b] W. Zhong, Y. Zhang, and J. Liu. “Evolutionary Dynamics of Continuous Strategy Games on Social Networks under Weak Selection: A Preliminary Study”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 2494–2498, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.
- [Zhou 11] L. Zhou, A. Zhou, G. Zhang, and C. Shi. “An Estimation of Distribution Algorithm based on Nonparametric Density Estimation”. In: A. E. Smith, Ed., *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pp. 1596–1603, IEEE Computational Intelligence Society, IEEE Press, New Orleans, USA, 5-8 June 2011.