Список литературы

- [:20, 2011] (2011). Paper not in the database. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ABEGAZ et al., 2011] ABEGAZ, T., DOZIER, G., BRYANT, K., ADAMS, J., SHELTON, J., KARL, R., and WOODARD, D. (2011). SSGA and EDA Based Feature Selection and Weighting for Face Recognition. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1374–1380, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ABELLO et al., 2011] ABELLO, M., BUI, L. T., and MICHALEWICZ, Z. (2011). An Adaptive Approach for Solving Dynamic Scheduling with Time-varying Number of Tasks Part I. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1702–1709, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ABRAMSON et al., 2011] ABRAMSON, M., WILL, I., and MITTU, R. (2011). Hybrid tuning of an evolutionary algorithm for sensor allocation. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1671–1677, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Adam and Zbigniew, 2011] Adam, G. and Zbigniew, M. (2011). Using Cellular Evolution for Diversification of the Balance Between Accurate and Interpretable Fuzzy Knowledge Bases for Classification. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1480–1487, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Adra et al., 2011] Adra, S., Kiran, M., McMinn, P., and Walkinshaw, N. (2011). A Multiobjective Optimisation Approach For The Dynamic Inference and Refinement Of Agent-Based Model Specifications. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2230–2237, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Ahmadi-Javid, 2011] Ahmadi-Javid, A. (2011). Anarchic Society Optimization: A Human-Inspired Method. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2566–2572, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Ahn et al., 2011a] Ahn, E. Y., Mullen, T., and Yen, J. (2011a). Evolutionary Based Feature Extraction with Dynamic Mutation. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 409–416, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Ahn et al., 2011b] Ahn, E. Y., Mullen, T., and Yen, J. (2011b). A Two-Population Evolutionary Algorithm for Feature Extraction: Combining Filter and Wrapper. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 723–730, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [AKAY and KARABOGA, 2011] AKAY, B. and KARABOGA, D. (2011). Wavelet Packets Optimization using Artificial Bee Colony Algorithm. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 89–94, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Al-Khateeb and Kendall, 2011] Al-Khateeb, B. and Kendall, G. (2011). The Importance of Look-Ahead Depth in Evolutionary Checkers. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2245–2251, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [ALDRIDGE et al., 2011] ALDRIDGE, S., BABB, B., MOORE, F., and PETERSON, M. (2011). Improved Reconstruction of Deep Space Images via Genetic Algorithms. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 102–109, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Aleshunas and Janikow, 2011] Aleshunas, J. and Janikow, C. (2011). Cost-benefit Analysis of Using Heuristics in ACGP. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1177–1183, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Alford et al., 2011a] Alford, A., Hansen, C., Dozier, G., Bryant, K., Kelly, J., Abegaz, T., Ricanek, K., and Woodard, D. (2011a). GEC-Based Multi-Biometric Fusion. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2056—2059, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Alford et al., 2011b] Alford, A., Popplewell, K., Dozier, G., Bryant, K., Kelly, J., Adams, J., Abegaz, T., Shelton, J., Ricanek, K., and Woodard, D. (2011b). A Comparison of GEC-Based Feature Selection and Weighting for Multimodal Biometric Recognition. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2712–2715, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ALI et al., 2011] ALI, M., SALHIEH, A., SNAINEH, R. A., and REYNOLDS, R. (2011). Boosting Cultural Algorithms with an Incongruous Layered Social Fabric Influence Function. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1230–1237, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ALIMADAD et al., 2011] ALIMADAD, A., DABBAGHIAN, V., SINGH, S., and TSANG, H. H. (2011). Modeling HIV Spread through Sexual Contact Using a Cellular Automaton. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2338–2343, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Allen and Fritzsche, 2011] Allen, M. and Fritzsche, P. (2011). Reinforcement Learning with Adaptive Kanerva Coding for Xpilot Game AI. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1520–1527, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Alshammari and Zincir-Heywood, 2011] Alshammari, R. and Zincir-Heywood, A. N. (2011). Is Machine Learning losing the battle to produce transportable signatures against VoIP traffic? In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1542–1549, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [AMARAL and HRUSCHKA, 2011] AMARAL, L. and HRUSCHKA, E. (2011). Transgenic, an operator for Evolutionary Algorithms. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1307–1313, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Amiri et al., 2011] Amiri, B., Hossain, L., and Crawford, J. W. (2011). An Efficient Multiobjective Evolutionary Algorithm for Community Detection in Social Networks. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2186–2192, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Andres et al., 2011] Andres, C., Llana, L., and Nunez, M. (2011). Self-Adaptive Fuzzy-Timed Systems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 115–122, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Ankush et al., 2011] Ankush, M., Das, A. K., Mukherjee, P., Das, S., and Suganthan, P. N. (2011). Modified Differential Evolution with Local Search Algorithm for Real World Optimization. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1564–1571, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [Antonakopoulos and Tufte, 2011] Antonakopoulos, K. and Tufte, G. (2011). A common genetic representation capable of developing distinct computational architectures. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1263–1270, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Asafuddoula et al., 2011] Asafuddoula, M., Ray, T., and Sarker, R. (2011). An Adaptive Differential Evolution Algorithm and its Performance on Real World Optimization Problems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1056–1061, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ASCONAVIETA et al., 2011] ASCONAVIETA, P., GOLDBARG, M., and GOLDBARG, E. (2011). Evolutionary Algorithm for the Car Renter Salesman. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 586–593, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ASHLOCK and BROWN, 2011] ASHLOCK, D. and BROWN, J. (2011). Fitness Functions for Searching the Mandelbrot Set. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1107–1114, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ASHLOCK et al., 2011a] ASHLOCK, D., KUUSELA, C., and COJOCARU, M. (2011a). Shopkeeper Strategies in the Iterated Prisoner's Dilemma. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1062–1069, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ASHLOCK and McGuinness, 2011] ASHLOCK, D. and McGuinness, C. (2011). Decomposing the Level Generation Problem with Tiles. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 848–855, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ASHLOCK and NGUYEN, 2011] ASHLOCK, D. and NGUYEN, S. (2011). Financial Control of the Evolution of Autonomous NPCs. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 827–834, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ASHLOCK et al., 2011b] ASHLOCK, D., SCHONFELD, J., and McNicholas, P. (2011b). Translation Tables: A Genetic Code in an Evolutionary Algorithm. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2672–2679, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ASHLOCK et al., 2011c] ASHLOCK, D., SHILLER, E., and LEE, C. (2011c). Comparison of Evolved Epidemic Networks with Diffusion Characters. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 780–787, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ATKINS et al., 2011] ATKINS, D., NESHATIAN, K., and ZHANG, M. (2011). A Domain Independent Genetic Programming Approach to Automatic Feature Extraction for Image Classification. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 238–245, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Avery et al., 2011] Avery, P., Togelius, J., Elvis, A., and van Leeuwen, R. P. (2011). Computational Intelligence and Tower Defence Games. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1083–1090, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [AWAD and DE JONG, 2011] AWAD, M. and DE JONG, K. (2011). Optimization of Spectral Signature Selection Using Multi-Objective Genetic Algorithms. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1619–1626, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [Ayob et al., 2011] Ayob, A. F. M., Ray, T., and Smith, W. (2011). Scenario-based Hydrodynamic Design Optimization of High Speed Planing Craft for Coastal Surveillance. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 354–361, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [AZEVEDO and ARAUJO, 2011a] AZEVEDO, C. and ARAUJO, A. (2011a). Correlation Between Diversity and Hypervolume in Evolutionary Multiobjective Optimization. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2730–2737, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [AZEVEDO and ARAUJO, 2011b] AZEVEDO, C. and ARAUJO, A. (2011b). Generalized Immigration Schemes for Dynamic Evolutionary Multiobjective Optimization. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2032–2039, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [AZUMA et al., 2011] AZUMA, R. M., COELHO, G., and VON ZUBEN, F. J. (2011). Evolutionary Multi-Objective Optimization for the Vendor-Managed Inventory Routing Problem. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1456–1463. New Orleans, USA, IEEE Computational Intelligence Society, IEEE Press.
- [Bandaru et al., 2011a] Bandaru, S., Tulshyan, R., and Deb, K. (2011a). Modified SBX and Adaptive Mutation for Real World Single Objective Optimization. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 1334–1341, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Bandaru et al., 2011b] Bandaru, S., Tutum, C. C., Deb, K., and Hattel, J. H. (2011b). Higher-level Innovization: A Case Study from Friction Stir Welding Process Optimization. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2769–2776, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Banerjee and Abu-Mahfouz, 2011] Banerjee, A. and Abu-Mahfouz, I. (2011). Evolutionary Algorithm-based Parameter Identification for Nonlinear Dynamical Systems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1–5, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Barrero et al., 2011] Barrero, D. F., R-Moreno, M., Castano, B., and Camacho, D. (2011). An Empirical Study on the Accuracy of Computational Effort in Genetic Programming. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1169–1176, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Batista et al., 2011] Batista, L., Campelo, F., Guimaraes, F., and Ramirez, J. (2011). A Comparison of Dominance Criteria in Many-Objective Optimization Problems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2352–2359, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Becker, 2011] Becker, M. (2011). Design of Fault Tolerant Networks with Agent-based Simulation of Physarum Polycephalum. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 285–291, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Benkhelifa et al., 2011] Benkhelifa, E., Tiwari, A., De Rueda, A. G., and Moniri, M. (2011). Evolutionary Multi-objective Design Optimisation of Energy Harvesting MEMS: The Case of a Piezoelectric. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1855–1862, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Braun et al., 2011] Braun, J., Krettek, J., Hoffmann, F., and Bertram, T. (2011). Structure and Parameter Identification of Nonlinear Systems with an Evolution Strategy. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2437–2444, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [Bremner et al., 2011] Bremner, P., Samie, M., Pipe, A., and Tyrrell, A. (2011). Multi-Objective Optimisation of Cell-Array Circuit Evolution. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 440–446, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Brown et al., 2011] Brown, J. A., Ashlock, D., Houghten, S., and Orth, J. (2011). Autogeneration of Fractal Photographic Mosaic Images. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1115–1122, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Bui et al., 2011] Bui, L. T., Abbass, H., Baker, S., Barlow, M., and Bender, A. (2011). A Grid-Based Heuristic for Two-Dimensional Packing Problems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2322–2329, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Cardamone et al., 2011] Cardamone, L., Mocci, A., and Ghezzi, C. (2011). Dynamic Synthesis of Program Invariants using Genetic Programming. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 617–624, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Carina et al., 2011] Carina, V., Geoff, N., and van Heerden, W. (2011). Evolution of a Fictional Dialogue. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1099–1106, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Carpentieri, 2011] Carpentieri, M. (2011). On Robustness of Permutations Sequencing Operators: Solving Satisfiability of Random 3-CNFs by Simple Crossover. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 693–700, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Carvalho et al., 2011] Carvalho, R., Brunoro, G., and Pappa, G. L. (2011). HCGA: A Genetic Algorithm for Hierarchical Classification. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 932–939, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Castro and Von Zuben, 2011] Castro, P. and Von Zuben, F. J. (2011). Training Multilayer Perceptrons with a Gaussian Artificial Immune System. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1255–1262, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Celebi and Kilic, 2011] Celebi, R. and Kilic, H. (2011). Mobile Prisoner's Dilemma Game Played On Diverse Habitats. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2593–2597, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Chakraborty et al., 2011] Chakraborty, U., Das, S., and Abbott, T. (2011). Clustering in Mobile Ad Hoc Networks with Differential Evolution. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2216–2221, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [CHEN et al., 2011] CHEN, P.-L., YANG, M.-C., and SUN, T.-Y. (2011). PSO-based On-line Tuning PID Controller for Setpoint Changes and Load Disturbance. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1886–1893, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Chen and Chen, 2011] Chen, S.-H. and Chen, M.-C. (2011). Bi-Variate Artificial Chromosomes with Genetic Algorithm for Single Machine Scheduling Problems with Sequence-Dependent Setup Times. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 45–53, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [Chen and Luo, 2011] Chen, Z. and Luo, P. (2011). QISA: Incorporating Quantum Computation into Simulated Annealing for Optimization Problems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2580–2587, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [CHIANG and LAI, 2011] CHIANG, T.-C. and LAI, Y.-P. (2011). MOEA/D-AMS: Improving MOEA/D by an Adaptive Mating Selection Mechanism. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1472–1479, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Chiang et al., 2011] Chiang, W.-C., Cai, G., Xu, X., Mudunuri, G., and Zhu, W. (2011). Two-Stage Tabu Particle Swarm Algorithms for the Facility Layout Problem with Size Constraints. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1678–1685, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [CHICA et al., 2011] CHICA, M., CORDON, O., and DAMAS, S. (2011). Tackling the 1/3 Variant of the Time and Space Assembly Line Balancing Problem by Means of a Multiobjective Genetic Algorithm. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 1366–1373, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [CHIRA, 2011] CHIRA, C. (2011). A Hybrid Evolutionary Approach to Protein Structure Prediction with Lattice Models. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 2293–2299, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [CHIRA and Gog, 2011] CHIRA, C. and Gog, A. (2011). Fitness Evaluation for Overlapping Community Detection in Complex Networks. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2193–2199, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Chowdhury and Chetty, 2011] Chowdhury, A. R. and Chetty, M. (2011). An Improved Method to Infer Gene Regulatory Network using S-System. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1011–1018, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Chu et al., 2011] Chu, W., Gao, X., and Sorooshian, S. (2011). Fortify Particle Swam Optimizer (PSO) with Principal Components Analysis—An example in improving bound-handling for optimizing high-dimensional and complex problems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1643–1647, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Chuan et al., 2011] Chuan, S., Zhenyu, Y., Xin, P., Yanan, C., and Bin, W. (2011). Multi-objective Decisionmaking in the Detection of Comprehensive Community Structures. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1488–1494, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Chuang and Chen, 2011] Chuang, Y.-C. and Chen, C.-T. (2011). A Study on Real-Coded Genetic Algorithm for Process Optimization Using Ranking Selection, Direction-Based Crossover and Dynamic Mutation. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2468–2475, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [CLANCEY and WITTEN, 2011] CLANCEY, O. and WITTEN, M. (2011). A Memetic Algorithm for Dosimetric Optimization in CyberKnife Robotic Radiosurgical Treatment Planning. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 879–884, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [COBOS et al., 2011] COBOS, C., MENDOZA, M., and LEON, E. (2011). A Hyper-Heuristic Approach To Design And Tuning Heuristic Methods For Web Document Clustering. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 1349–1357, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [Coelho et al., 2011a] Coelho, G., de Franca, F., and Von Zuben, F. J. (2011a). A Concentration-based Artificial Immune Network for Combinatorial Optimization. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1247–1254, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Coelho et al., 2011b] Coelho, L., Bernert, D., and Mariani, V. (2011b). A chaotic firefly algorithm applied to reliability-redundancy optimization. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 517–521, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Coia and Ross, 2011] Coia, C. and Ross, B. (2011). Automatic Evolution of Conceptual Building Architectures. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1145–1152, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [CORNS, 2011] CORNS, S. (2011). On the Effects of Graph Based Evolutionary Algorithms for Training Finite State Classifiers. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1019–1025, New Orleans, USA. IEEE Computational Intelligence Society. IEEE Press.
- [Costa et al., 2011] Costa, B. C., Almeida, P. E. M., and Caldeira, E. (2011). Traffic Lights Timing Inside Microregion Simulator Using Multiobjective Optimization. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 1381–1386, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Coulter and Ehlers, 2011] Coulter, D. and Ehlers, E. (2011). Biologically Inspired Obsolescence Management in Mobile Agent Systems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2048–2055, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Cruz et al., 2011] Cruz, A., Cardoso, R., Wanner, E., and Takahashi, R. (2011). Using Convex Quadratic Approximation as a Local Search Operator in Evolutionary Multiobjective Algorithms. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1222–1229, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Cuccu et al., 2011] Cuccu, G., Gomez, F., and Glasmachers, T. (2011). Novelty-Based Restarts for Evolution Strategies. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 158–163, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Daneshyari and Yen, 2011] Daneshyari, M. and Yen, G. (2011). Dynamic Optimization using Cultural based PSO. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 509–516, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Davarynejad et al., 2011] Davarynejad, M., Rezaei, J., Vrancken, J., van den Berg, J., and Coello Coello, C. A. (2011). Accelerating Convergence Towards the Optimal Pareto Front. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2100–2107, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [DE ARMAS et al., 2011] DE ARMAS, J., MIRANDA, G., and LEON, C. (2011). Two Encoding Schemes for a Multi-Objective Cutting Stock Problem. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 529–536, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [DE BRUYN et al., 2011] DE BRUYN, K., NITSCHKE, G., and VAN HEERDEN, W. (2011). Evolutionary Algorithms and Particle Swarm Optimization for Artificial Language Evolution. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2688–2695, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [DE FRANCA and VON ZUBEN, 2011] DE FRANCA, F. and VON ZUBEN, F. J. (2011). Extracting additive and multiplicative coherent biclusters with swarm intelligence. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 625–631, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [De la Fraga and Dominguez, 2011] De la Fraga, L. G. and Dominguez, G. M. L. (2011). Robust Detection of Several Circles or Ellipses with Heuristics. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 484–490, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Dias et al., 2011] Dias, D., Singulani, A., Pacheco, M. A., Souza, P., Pires, M., and Neto, O. V. (2011). Self-Assembly Quantum Dots Growth Prediction by Quantum-Inspired Linear Genetic Programming. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 2060–2067, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Diaz-Manriquez et al., 2011] Diaz-Manriquez, A., Toscano-Pulido, G., and Gomez-Flores, W. (2011). On the Selection of Surrogate Models in Evolutionary Optimization Algorithms. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2148–2155, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Dobslaw, 2011] Dobslaw, F. (2011). Iteration-wise Parameter Learning. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 455–462, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Dohare and Devi, 2011] Dohare, D. and Devi, V. S. (2011). Combination of Similarity Measures for Time Series Classification using Genetic Algorithms. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 401–408, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Dorn et al., 2011] Dorn, M., Buriol, L. S., and Lamb, L. C. (2011). A Hybrid Genetic Algorithm for the 3-D Protein Structure Prediction Problem using a Path-Relinking Strategy. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2696–2703, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Dos Santos and Sabourin, 2011] Dos Santos, E. M. and Sabourin, R. (2011). Classifier Ensembles Optimization Guided by Population Oracle. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 679–684, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Doucette and Heywood, 2011] Doucette, J. and Heywood, M. (2011). Revisiting the Acrobot 'height' task: An example of Efficient Evolutionary Policy Search under an Episodic Goal Seeking Task. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 468–475, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Downey and Zhang, 2011] Downey, C. and Zhang, M. (2011). Execution Trace Caching for Linear Genetic Programming. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1191–1198, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Dumas et al., 2011] Dumas, L., Rhabi, M. E., and Rochefort, G. (2011). An Evolutionary Approach For Blind Deconvolution Of Barcode Images With Nonuniform Illumination. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2416—2421, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Dymond et al., 2011] Dymond, A., Engelbrecht, A. P., and Heyns, S. (2011). The sensitivity of single objective optimization algorithm control parameter values under different computational constraints. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1411–1418, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [Dziuk and Miikkulainen, 2011] Dziuk, A. and Miikkulainen, R. (2011). Creating Intelligent Agents through Shaping of Coevolution. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1076–1082, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ECHEGOYEN et al., 2011] ECHEGOYEN, C., ZHANG, Q., MENDIBURU, A., SANTANA, R., and LOZANO, J. A. (2011). On the Limits of Effectiveness in Estimation of Distribution Algorithms. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1572–1579, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ELLEFSEN, 2011] ELLEFSEN, K. O. (2011). Dynamic Robot Scheduling Using a Genetic Algorithm. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2024–2031, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ELSAYED et al., 2011a] ELSAYED, S., SARKER, R., and ESSAM, D. (2011a). Differential Evolution with Multiple Strategies for Solving CEC2011 Real-world Numerical Optimization Problems. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1040–1047, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ELSAYED et al., 2011b] ELSAYED, S., SARKER, R., and ESSAM, D. (2011b). GA with a New Multi-Parent Crossover for Constrained Optimization. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 856–863, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ELSAYED et al., 2011c] ELSAYED, S., SARKER, R., and ESSAM, D. (2011c). GA with a New Multi-Parent Crossover for Solving IEEE-CEC2011 Competition Problems. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 1033–1039, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ELSAYED et al., 2011d] ELSAYED, S., SARKER, R., and ESSAM, D. (2011d). Integrated Strategies Differential Evolution Algorithm with a Local Search for Constrained Optimization. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2611–2618, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [EMMERICH et al., 2011] EMMERICH, M., DEUTZ, A., and KLINKENBERG, J. W. (2011). Hypervolume-based Expected Improvement: Monotonicity Properties and Exact Computation. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2140–2147, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [EPPE et al., 2011] EPPE, S., LOPEZ-IBANEZ, M., STUETZLE, T., and DE SMET, Y. (2011). An Experimental Study of Preference Model Integration into Multi-Objective Optimization Heuristics. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2738–2745, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ERGEZER and SIMON, 2011] ERGEZER, M. and SIMON, D. (2011). Oppositional Biogeography-Based Optimization for Combinatorial Problems. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1495–1502, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ESKRIDGE, 2011] ESKRIDGE, B. (2011). Extrapolation of Regularity Using Indirect Encodings. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1279–1286, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ESMAILZADEH and RAHNAMAYAN, 2011] ESMAILZADEH, A. and RAHNAMAYAN, S. (2011). Enhanced Differential Evolution Using Center-Based Sampling. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2634–2641, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ESPITIA and SOFRONY, 2011] ESPITIA, H. and SOFRONY, J. (2011). Path planning of mobile robots using potential fields and swarms of Brownian particles. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 123–129, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [ESTEVEZ et al., 2011] ESTEVEZ, J., TOLEDO, P., and ALAYON, S. (2011). Using an Induced Relational Decision Tree for Rule Injection in a Learning Classifier System. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 640–647, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [FALCON et al., 2011] FALCON, R., ALMEIDA, M., and NAYAK, A. (2011). Fault Identification with Binary Adaptive Fireflies in Parallel and Distributed Systems. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1358–1365, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [FANG JI et al., 2011] FANG JI, X., WEI GONG, D., and PING MA, X. (2011). Solving optimization problems with intervals and hybrid indices using evolutionary algorithms. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2522–2529, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Fernandes et al., 2011] Fernandes, C. M., Isidoro, C., Barata, F., Rosa, A. C., and Merelo, J. J. (2011). From Pherographia to Color Pherographia Color Sketching with Artificial Ants. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1123–1130, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Fernandez-Ares et al., 2011] Fernandez-Ares, A., Mora, A. M., Merelo, J. J., Garcia-Sanchez, P., and Fernandes, C. (2011). Optimizing Player Behavior In A Real-Time Strategy Game Using Evolutionary Algorithms. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2016–2023, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Fernandez de Vega et al., 2011] Fernandez de Vega, F., Chavez de la O, F., Fernandez, R. A., and Triguero, F. H. (2011). Musical Genre Classification by means of Fuzzy Rules Based Systems: A preliminary approach. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2551–2557, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [FRIEDLANDER et al., 2011] FRIEDLANDER, A., NESHATIAN, K., and ZHANG, M. (2011). Meta-Learning and Feature Ranking Using Genetic Programming for Classification: Variable Terminal Weighting. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary* Computation, pages 940–947, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Fu et al., 2011] Fu, W., Johnston, M., and Zhang, M. (2011). Genetic Programming For Edge Detection: A Global Approach. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 254–261, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Fukushima et al., 2011] Fukushima, N., Nagata, Y., Kobayashi, S., and Ono, I. (2011). Proposal of Distance-weighted Exponential Natural Evolution Strategies. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 164–171, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Gallagher and Oppenheimer, 2011] Gallagher, J. and Oppenheimer, M. (2011). An Improved Evolvable Oscillator for All Flight Mode Control of an Insect-Scale Flapping-Wing Micro Air Vehicle. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 417–425, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Garcia-Arenas et al., 2011] Garcia-Arenas, M., Merelo, J. J., Mora, A. M., Castillo, P., and Romero, G. (2011). Assessing speed-ups in commodity cloud storage services for distributed evolutionary algorithms. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 304–311, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [GARRO et al., 2011] GARRO, B. A., SOSSA, H., and VAZQUEZ, R. A. (2011). Artificial Neural Network Synthesis by means of Artificial Bee Colony (ABC) Algorithm. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 331–338, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Garza-Fabre et al., 2011a] Garza-Fabre, M., Rodriguez-Tello, E., and Toscano-Pulido, G. (2011a). Comparing Alternative Energy Functions for the HP Model of Protein Structure Prediction. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2300–2307, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Garza-Fabre et al., 2011b] Garza-Fabre, M., Toscano-Pulido, G., Coello Coello, C. A., and Rodriguez-Tello, E. (2011b). Effective Ranking + Speciation = Many-Objective Optimization. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2108–2115, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Geng and Liu, 2011] Geng, J. and Liu, J. (2011). Image Texture Classification using a Multiagent Genetic Clustering Algorithm. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 504–508, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Ghaffarizadeh et al., 2011] Ghaffarizadeh, A., Ahmadi, K., and Flann, N. S. (2011). Sorting Unsigned Permutations by Reversals using Multi-Objective Evolutionary Algorithms with Variable Size Individuals. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 292–295, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Ghosh et al., 2011] Ghosh, S., Roy, S., Swagatam, D., Ajith, A., and Minhazul, I. (2011). Peak-to-Average Power Ratio Reduction in OFDM Systems Using an Adaptive Differential Evolution Algorithm. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1940–1948, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [GOH et al., 2011] GOH, C. K., LIM, D., MA, L., ONG, Y. S., and DUTTA, P. (2011). A Surrogate-Assisted Memetic Co-evolutionary Algorithm for Expensive Constrained Optimization Problems. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 731–736, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Goncalves and Von Zuben, 2011] Goncalves, A. R. and Von Zuben, F. J. (2011). Online learning in estimation of distribution algorithms for dynamic environments. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 62–69, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Gong and Fukunaga, 2011] Gong, Y. and Fukunaga, A. (2011). Distributed Island-Model Genetic Algorithms Using Heterogeneous Parameter Settings. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 819–826, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Gonzalez-Pardo and Camacho, 2011] Gonzalez-Pardo, A. and Camacho, D. (2011). Analysis of Grammatical Evolution Approaches to Regular Expression Induction. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 632–639, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Goulart et al., 2011] Goulart, N., Dias, L., Souza, S., and Noronha, T. (2011). Biased Random-key Genetic Algorithm for Fiber Installation in Optical Network Optimization. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2260–2264, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [Graham et al., 2011] Graham, L., Borbone, J., and Parker, G. (2011). Comparison of a Greedy Selection Operator to Tournament Selection and a Hill Climber. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1503–1507, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Green, II et al., 2011] Green, II, R., Wang, L., Alam, M., and Formato, R. (2011). Central Force Optimization on a GPU: A Case Study in High Performance Metaheuristics Using Multiple Topologies. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 550–557, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Greenwood, 2011] Greenwood, G. (2011). On the Value of Operator-Induced Neighborhoods in Fitness Landscapes. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 463–467, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Greenwood and Chopra, 2011] Greenwood, G. and Chopra, S. (2011). A Numerical Analysis of the Evolutionary Iterated Snowdrift Game. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2009–2015, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Grobler et al., 2011] Grobler, J., Engelbrecht, A. P., Kendall, G., and Yadavalli, V. (2011). Investigating the Impact of Alternative Evolutionary Selection Strategies on Multi-method Global Optimization. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 2330–2337, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Haidar et al., 2011] Haidar, A., Noman, K., Al-Jawfi, R., and Aziz, H. A. (2011). An Intelligent Placement of Distributed Capacitance based on Loss Minimization. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 767–771, New Orleans, USA. IEEE Computational Intelligence Society.
- [Halder et al., 2011] Halder, U., Das, S., Maity, D., Abraham, A., and Preetam, D. (2011). Self Adaptive Cluster Based and Weed Inspired Differential Evolution Algorithm For Real World Optimization. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 737–743, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [HAMADA et al., 2011a] HAMADA, N., NAGATA, Y., KOBAYASHI, S., and ONO, I. (2011a). Adaptive Weighted Aggregation 2: More Scalable AWA for Multiobjective Function Optimization. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 2368–2375, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Hamada et al., 2011b] Hamada, N., Nagata, Y., Kobayashi, S., and Ono, I. (2011b). On Scalability of Adaptive Weighted Aggregation for Multiobjective Function Optimization. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 655–664, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Hamza et al., 2011] Hamza, N., Elsayed, S., Sarker, R., and Essam, D. (2011). Differential Evolution Combined with Constraint Consensus for Constrained Optimization. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 864–871, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Hancock and Lamont, 2011] Hancock, D. and Lamont, G. (2011). Multi Agent System For Network Attack Classification Using Flow-Based Intrusion Detection. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 1534–1541, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Handa, 2011] Handa, H. (2011). Dimensionality Reduction of Scene and Enemy Information in Mario. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1514–1519, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [Handoko et al., 2011] Handoko, S. D., Kwoh, C. K., Ong, Y. S., and Chan, J. (2011). Classification-assisted Memetic Algorithms for Solving Optimization Problems with Restricted Equality Constraint Function Mapping. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1214–1221, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Hassanein et al., 2011] Hassanein, O., Anavatti, S., and Ray, T. (2011). Genetic Fuzzy Controller for Robot Manipulator Position Control based upon Inverse Dynamics. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 707–714, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [HE and YEN, 2011] HE, Z. and YEN, G. (2011). An Ensemble Method for Performance Metrics in Multiobjective Evolutionary Algorithms. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1723–1728, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Heinrich et al., 2011] Heinrich, E., Joost, R., and Salomon, R. (2011). Learning from the Barn Owl Auditory System: A Bio-Inspired Localization Hardware Architecture. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 216–221, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Helbig and Engelbrecht, 2011] Helbig, M. and Engelbrecht, A. P. (2011). Archive Management for Dynamic Multi-objective Optimisation Problems using Vector Evaluated Particle Swarm Optimisation. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2040–2047, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Herbawi and Weber, 2011] Herbawi, W. and Weber, M. (2011). Comparison of Multiobjective Evolutionary Algorithms for Solving The Multiobjective Route Planning in Dynamic Multi-hop Ridesharing. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2092–2099, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press
- [Hernandez and Toscano-Pulido, 2011] Hernandez, J. and Toscano-Pulido, G. (2011). A Comparison on the Search of Particle Swarm Optimization and Differential Evolution on Multi-Objective Optimization. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1977–1984, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [HIJAZE and CORNE, 2011] HIJAZE, M. and CORNE, D. (2011). Distributed Evolutionary Algorithm Topologies with Adaptive Migration Schemes. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 601–608, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Hill and O'Riordan, 2011] Hill, S. and O'Riordan, C. (2011). Examining the use of a Non-Trivial Fixed Genotype-Phenotype Mapping in Genetic Algorithms to Induce Phenotypic Variability over Deceptive Uncertain Landscapes. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1403–1410, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [HINGSTON and PREUSS, 2011] HINGSTON, P. and PREUSS, M. (2011). Red Teaming with Coevolution. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1160–1168, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Hiruma et al., 2011] Hiruma, H., Fukunaga, A., Komiya, K., and Iba, H. (2011). Evolving an Effective Robot Tour Guide. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 137–144, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [HSIEH et al., 2011a] HSIEH, M.-N., CHIANG, T.-C., and Fu, L.-C. (2011a). A Hybrid Constraint Handling Mechanism with Differential Evolution for Constrained Multiobjective Optimization. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1784–1791, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [HSIEH et al., 2011b] HSIEH, S.-T., CHIU, S.-Y., and YEN, S.-J. (2011b). Sharing Mutation Genetic Algorithm for Solving Multi-objective Optimization Problems. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1832–1838, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Huang and Ting, 2011] Huang, Y.-H. and Ting, C.-K. (2011). Genetic Algorithm with Path Relinking for the Multi-Vehicle Selective Pickup and Delivery Problem. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1817–1824, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Hui Zhong and Zhang, 2011] Hui Zhong, J. and Zhang, J. (2011). Energy-Efficient Local Wakeup Scheduling in Wireless Sensor Networks. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2273–2277, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Huo et al., 2011] Huo, C.-L., Lai, T.-Y., and Sun, T.-Y. (2011). The Preliminary Study on Multi-Swarm Sharing Particle Swarm Optimization: Applied to UAV Path Planning Problem. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1769–1775, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [HWANG et al., 2011] HWANG, J.-W., LEE, Y.-S., and CHO, S.-B. (2011). Structure Evolution of Dynamic Bayesian Network for Traffic Accident Detection. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1664–1670, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [IBRAHIMOV et al., 2011] IBRAHIMOV, M., MOHAIS, A., SCHELLENBERG, S., and MICHALEWICZ, Z. (2011). Comparison of Different Evolutionary Algorithms for Global Supply Chain Optimisation and Parameter Analysis. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2400–2407, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [IOANNIDES et al., 2011] IOANNIDES, C., EDER, K., and BARRETT, G. (2011). Improving XCS Performance on Overlapping Binary Problems. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1419–1426, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ISHIBUCHI et al., 2011] ISHIBUCHI, H., AKEDO, N., OHYANAGI, H., and NOJIMA, Y. (2011). Behavior of EMO Algorithms on Many-Objective Optimization Problems with Correlated Objectives. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1464–1471, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ISLAM et al., 2011a] ISLAM, M., GHOSH, S., DAS, S., ABRAHAM, A., and ROY, S. (2011a). A Modified Discrete Differential Evolution based TDMA Scheduling Scheme for Many to One Communications in Wireless Sensor Networks. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 1949–1956, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ISLAM et al., 2011b] ISLAM, M. K., CHETTY, M., and MURSHED, M. (2011b). Novel Local Improvement Techniques in Clustered Memetic Algorithm for Protein Structure Prediction. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 1002–1010, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Jennings and Ordonez, 2011] Jennings, A. and Ordonez, R. (2011). Population Based Optimization for Variable Operating Points. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 145–151, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [Jeong et al., 2011] Jeong, I.-B., Park, C.-S., Na, K.-I., Han, S., and Kim, J.-H. (2011). Particle Swarm Optimization-based Central Patter Generator for Robotic Fish Locomotion. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 152–157, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Johansson et al., 2011] Johansson, U., Sonstrod, C., and Lofstrom, T. (2011). One Tree to Explain Them All. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1443–1450, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Junior and Pappa, 2011] Junior, Z. C. and Pappa, G. L. (2011). A PSO algorithm for Improving Multi-View Classification. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 924–931, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Junqing et al., 2011] Junqing, L., Quanke, P., and Shengxian, X. (2011). Flexible Job Shop Scheduling Problems By A Hybrid Artificial Bee Colony Algorithm. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 78–83, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [KAMATH et al., 2011] KAMATH, U., DE JONG, K., and SHEHU, A. (2011). An Evolutionary-based Approach for Feature Generation: Eukaryotic Promoter Recognition. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 277–284, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Kameya and Prayoonsri, 2011] Kameya, Y. and Prayoonsri, C. (2011). Pattern-based Preservation of Building Blocks in Genetic Algorithms. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2558–2565, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Kessentini et al., 2011] Kessentini, S., Barchiesi, D., Grosges, T., and de la Chapelle, M. L. (2011). Particle swarm optimization and evolutionary methods for plasmonic biomedical applications. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2308–2313, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Khairy et al., 2011] Khairy, M., Fayek, M. B., and Hemayed, E. E. (2011). PSO2: Particle Swarm Optimization with PSO-Based Local Search. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1825–1831, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Khan et al., 2011] Khan, M., Ayob, A., Isaacs, A., and Ray, T. (2011). A Novel Evolutionary Approach for 2D Shape Matching Based on B-Spline Modeling. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 648–654, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Ki-Baek and Jong-Hwan, 2011] Ki-Baek, L. and Jong-Hwan, K. (2011). Multi-Objective Particle Swarm Optimization with Preference-based Sorting. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2486–2493, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Kia and Cristinel, 2011] Kia, H. S. and Cristinel, A. (2011). A new Fault-tolerant and Congestion-aware Adaptive Routing Algorithm for Regular Networks-on-Chip. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2453–2460, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [KIJOWSKI et al., 2011] KIJOWSKI, M., GALLAGHER, J., and MERKLE, L. (2011). Improved Learning in an Evolvable Hardware Hover Controller for an Insect Scale Flapping-Wing Micro Air Vehicle. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 426–431, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [KIM et al., 2011] KIM, E.-S., HA, J.-W., JUNG, W. H., JANG, J. H., KWON, J. S., and BYOUNG-TAK, Z. (2011). Mutual Information-Based Evolution of Hypernetworks for Brain Data Analysis. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 2604–2610, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Kimura and Matsumura, 2011] Kimura, S. and Matsumura, K. (2011). Constrained Multimodal Function Optimization using a Simple Evolutionary Algorithm. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 447–454, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [KNITTEL and BOSSOMAIER, 2011] KNITTEL, A. and BOSSOMAIER, T. (2011). Formation and Activation of Feature Hierarchies Under Reinforcement. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2664–2671, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Korosec and Silc, 2011] Korosec, P. and Silc, J. (2011). The Continuous Differential Ant-Stigmergy Algorithm Applied to Real-World Optimization Problems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1326–1333, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Krause, 2011] Krause, A. (2011). Performance of evolving trading strategies with different discount factors. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 186–191, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Kromer et al., 2011] Kromer, P., Platos, J., and Snasel, V. (2011). Differential Evolution for the Linear Ordering Problem Implemented on CUDA. In Smith, A. E., editor, *Proceedings of* the 2011 IEEE Congress on Evolutionary Computation, pages 795–801, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Kudo et al., 2011] Kudo, F., Tomohiro, Y., and Takeshi, F. (2011). A Study on Analysis of Design Variables in Pareto Solutions for Conceptual Design Optimization Problem of Hybrid Rocket Engine. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2538–2542, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Kumar et al., 2011] Kumar, P., Skinner, S., and Sahar, D. (2011). Nearest-Neighbor Architecture to Overcome the Effects of Qubit Precessions on Gate Operations. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2716–2721, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Landassuri-Moreno and Bullinaria, 2011] Landassuri-Moreno, V. M. and Bullinaria, J. A. (2011). Biasing the Evolution of Modular Neural Networks. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1957–1964, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [LaTorre et al., 2011a] Latorre, A., Muelas, S., and Pena, J.-M. (2011a). Benchmarking a Hybrid DE-RHC Algorithm on Real World Problems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1026–1032, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [LaTorre et al., 2011b] LaTorre, A., Muelas, S., Pena, J.-M., Santana, R., and Merchan-Perez, A. (2011b). A Differential Evolution Algorithm for the Detection of Synaptic Vesicles. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1686–1693, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Leal et al., 2011] Leal, L., Lemos, M., Holanda, R., Rabelo, R., and Borges, F. (2011). A Hybrid Approach Based on Genetic Fuzzy Systems for Wireless Sensor Networks. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 964–971, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [Lee et al., 2011a] Lee, B., Seok, H.-S., and Zhang, B.-T. (2011a). Evolving a Population Code for Multimodal Concept Learning. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 685–692, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Lee et al., 2011b] Lee, J.-H., Lee, B., Kim, J. S., Deaton, R., and Zhang, B.-T. (2011b). A Molecular Evolutionary Algorithm for Learning Hypernetworks on Simulated DNA Computers. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2722–2729, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Legriel et al., 2011] Legriel, J., Cotton, S., and Maler, O. (2011). On Universal Search Strategies for Multi-Criteria Optimization Using Weighted Sums. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 2344–2351, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Leguizamon and Coello Coello, 2011] Leguizamon, G. and Coello Coello, C. A. (2011). A Multi-Region Differential Evolution Algorithm for Continuos Optimization Problems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1933–1939, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Lehman and Stanley, 2011] Lehman, J. and Stanley, K. (2011). Improving Evolvability through Novelty Search and Self-Adaptation. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2680–2687, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Lemonge et al., 2011] Lemonge, A., Silva, M., and Barbosa, H. (2011). Design Optimization of Geometrically Nonlinear Truss Structures Considering Cardinality Constraints. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 29–36, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Lepagnot et al., 2011] Lepagnot, J., Nakib, A., Oulhadj, H., and Siarry, P. (2011). Brain Cine MRI Segmentation Based on a Multiagent Algorithm for Dynamic Continuous Optimization. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1694–1701, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Li et al., 2011a] Li, B., Li, X., Mabu, S., and Hirasawa, K. (2011a). Variable Size Genetic Network Programming with Binomial Distribution. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 972–979, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [LI and Wang, 2011] LI, H. and Wang, Y. (2011). A Real-Binary Coded Genetic Algorithm for Solving Nonlinear Bilevel Programming with Nonconvex Objective Functions. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2476–2480, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Li et al., 2011b] Li, J., Zheng, C., and Hu, X. (2011b). A Hypervolume Based Approach for Minimal Visual Coverage Shortest Path. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 1776–1783, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Li et al., 2011c] Li, R., Etemaadi, R., Emmerich, M., and Chaudron, M. (2011c). An Evolutionary Multiobjective Optimization Approach to Component-Based Software Architecture Design. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 432–439, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Li and Yuan, 2011] Li, S. and Yuan, J. (2011). The Modularity in Freeform Evolving Neural Networks. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2598–2603, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [Li et al., 2011d] Li, X., Li, B., Mabu, S., and Hirasawa, K. (2011d). A Novel Estimation of Distribution Algorithm Using Graph-based Chromosome Representation and Reinforcement Learning. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 37–44, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Liang et al., 2011] Liang, F., Yew-Soon, O., Ah-Hwee, T., and Xian-Shun, C. (2011). Towards Human-like Social Multi-agents with Memetic Automaton. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1091–1098, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Lima and Ludermir, 2011] Lima, N. and Ludermir, T. (2011). Frankenstein PSO Applied to Neural Network Weights and Architectures. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2588–2592, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [LIN LIU and GU, 2011] LIN LIU, H. and GU, F. (2011). A improved NSGA-II algorithm based on subregional search. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1905–1910, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Liping and Yuping, 2011] Liping, J. and Yuping, W. (2011). Genetic Algorithm Based on Primal and Dual Theory for Solving Multiobjective Bilevel Linear Programming. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 558–565, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Liu and Qiu, 2011] Liu, H. and Qiu, A. (2011). Space active noise control system design with multiobjective genetic algorithms. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 2179–2185, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Lockett and Miikkulainen, 2011] Lockett, A. and Miikkulainen, R. (2011). Measure—Theoretic Evolutionary Annealing. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2132–2139, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Lohpetch and Corne, 2011] Lohpetch, D. and Corne, D. (2011). Multiobjective Algorithms for Financial Trading Multiobjective Out-trades Single-Objective. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 192–199, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Lopez-Jaimes et al., 2011] Lopez-Jaimes, A., Arias-Montano, A., and Coello Coello, C. A. (2011). Preference Incorporation to Solve Many-Objective Airfoil Design Problems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1604–1611, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [LOTIF and COELHO, 2011] LOTIF, M. and COELHO, A. (2011). Visually Inspecting the Search Behavior of Harmony Search and its Variants with Viz3D. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 609–616, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Lu et al., 2011] Lu, X., Tang, K., and Yao, X. (2011). Classification-Assisted Differential Evolution for Computationally Expensive Problems. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 1985–1992, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Lugo-Cordero et al., 2011] Lugo-Cordero, H., Fuentes-Rivera, A., Guha, R., and Ortiz-Rivera, E. (2011). Particle Swarm Optimization for Load Balancing in Green Smart Homes. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 701–706, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [Lung and Dumitrescu, 2011] Lung, R. I. and Dumitrescu, D. (2011). A New Evolutionary Approach to Minimax Problems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1901–1904, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Ly and Lipson, 2011] Ly, D. and Lipson, H. (2011). Trainer Selection Strategies for Coevolving Rank Predictors. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2392–2399, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [MADEIRO et al., 2011] MADEIRO, S., GALVAO, E., CAVELLUCCI, C., LYRA, C., and VON ZUBEN, F. J. (2011). Simultaneous Capacitor Placement and Reconfiguration for Loss Reduction in Distribution Networks by a Hybrid Genetic Algorithm. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 2171–2178, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Mahdi et al., 2011] Mahdi, S., Mengjie, Z., and Mark, J. (2011). Edge Detection Using Constrained Discrete Particle Swarm Optimisation in Noisy Images. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 246–253, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Malago' et al., 2011a] Malago', L., Matteucci, M., and Pistone, G. (2011a). Stochastic Natural Gradient Descent by Estimation of Empirical Covariances. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 948–955, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Malago' et al., 2011b] Malago', L., Matteucci, M., and Valentini, G. (2011b). Introducing l1-regularized Logistic Regression in Markov Networks based EDAs. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 1580–1587, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Mallipeddi et al., 2011] Mallipeddi, R., Iacca, G., Ponnuthurai, N. S., Neri, F., and Mininno, E. (2011). Ensemble Strategies in Compact Differential Evolution. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1971–1976, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Mallipeddi and Ponnuthurai, 2011] Mallipeddi, R. and Ponnuthurai, N. S. (2011). Ensemble Differential Evolution Algorithm for CEC2011 Problems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1556–1563, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Marco et al., 2011] Marco, D., Cairns, D., and Shankland, C. (2011). Optimisation of Process Algebra Models Using Evolutionary Computation. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1295–1300, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Mariani et al., 2011] Mariani, V., Luvizotto, L. G., Klein, C., and Coelho, L. (2011). A normative differential evolution approach for estimation of heat transfer coefficient during freezing treatment by inverse analysis. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 522–528, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [MARTI et al., 2011] MARTI, L., GARCIA, J., BERLANGA, A., and MOLINA, J. M. (2011). Indicator-based MONEDA: A Comparative Study of Scalability with Respect to Decision Space Dimensions. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 956–963, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Martinez et al., 2011] Martinez, S. Z., Arias-Montano, A., and Coello Coello, C. A. (2011). A Nonlinear Simplex Search Approach for Multi-Objective Optimization. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2360–2367, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [Masuda et al., 2011] Masuda, K., Yokota, H., and Kurihara, K. (2011). An Empirical Study on the Search Directions of Differential Evolution. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2530–2537, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [McClymont and Keedwell, 2011] McClymont, K. and Keedwell, E. (2011). Benchmark Multi-objective Optimisation Test Problems with Mixed Encodings. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2124–2131, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Menezes and Coelho, 2011] Menezes, L. and Coelho, A. (2011). On Ensembles of Biclusters Generated by Nichepso. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 594–600, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Menezes, 2011] Menezes, T. (2011). Evolutionary Modeling of a Blog Network. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 908–915, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [MENZEL, 2011] MENZEL, S. (2011). Evolvable Free-Form Deformation Control Volumes for Evolutionary Design Optimization. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1387–1394, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [MERELO et al., 2011] MERELO, J. J., MORA, A. M., and COTTA, C. (2011). Optimizing worst-case scenario in evolutionary solutions to the MasterMind puzzle. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2656–2663, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [MILLER et al., 2011] MILLER, C., MOORE, F., BABB, B., and PETERSON, M. (2011). Improved Reconstruction of Quantized CT Scans via Genetic Algorithms. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2286–2292, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [MIRMOMENI and Punch, 2011] MIRMOMENI, M. and Punch, W. (2011). Co-evolving Data Driven Models and Test Data Sets with the Application to Forecast Chaotic Time Series. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 14–20, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [MOJICA-NAVA and QUIJANO, 2011] MOJICA-NAVA, E. and QUIJANO, N. (2011). A Replicator Dynamics Weighted Control Technique for a DC-DC Converter. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 1871–1877, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Mokom and Kobti, 2011] Mokom, F. and Kobti, Z. (2011). Evolution of Artifact Capabilities. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 476–483, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Monson, 2011] Monson, C. (2011). Simple Adaptive Cognition for PSO. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1656–1663, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Moritz et al., 2011] Moritz, R., Ulrich, T., Thiele, L., and Buerklen, S. (2011). Mutation Operator Characterization: Exhaustiveness, Locality, and Bias. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1395–1402, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Morshed and Chetty, 2011] Morshed, N. and Chetty, M. (2011). Reconstructing Genetic Networks with Concurrent Representation of Instantaneous and Time-Delayed Interactions. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1839–1846, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [Mousavi et al., 2011] Mousavi, M., Hoque, S., Rahnamayan, S., Dincer, I., and Naterer, G. F. (2011). Optimal Design of an Air-Cooling System for a Li-Ion Battery Pack in an Electric Vehicle with a Genetic Algorithm. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1847–1854, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [MUEHLEISEN et al., 2011] MUEHLEISEN, H., WALTHER, T., and TOLKSDORF, R. (2011). Multi-Level Indexing in a Distributed Self-Organized Storage System. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 988–993, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Munawar et al., 2011] Munawar, A., Wahib, M., Munetomo, M., and Akama, K. (2011). Advanced Genetic Algorithm to solve MINLP problems over GPU. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 318–325, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [MUNETOMO, 2011] MUNETOMO, M. (2011). Realizing Robust and Scalable Evolutionary Algorithms toward Exascale Era. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 312–317, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Munoz et al., 2011] Munoz, D., Llanos, C., Coelho, L., and Ayala, M. (2011). Opposition-based Shuffled PSO with Passive Congregation Applied to FM Matching Synthesis. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2762–2768, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [N. and Kobti, 2011] N., M. R. R. and Kobti, Z. (2011). A Machine Operation Lists Based Memetic Algorithm for Job Shop Scheduling. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2429–2436, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Nagy et al., 2011] Nagy, R., Dumitrescu, D., and Lung, R. I. (2011). Fuzzy Equilibria for Games Involving n>2 Players. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2642–2648, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Nairat et al., 2011] Nairat, M., Dahlstedt, P., and Nordahl, M. (2011). Character Evolution Approach to Generative Storytelling. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1131–1136, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Namura et al., 2011] Namura, N., Shimoyama, K., Jeong, S., and Obayashi, S. (2011). Kriging/RBF-Hybrid Response Surface Method for Highly Nonlinear Functions. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2514–2521, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Naruchitparames et al., 2011] Naruchitparames, J., Gunes, M., and Louis, S. (2011). Friend Recommendations in Social Networks using Genetic Algorithms and Network Topology. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2200–2207, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [NASIR et al., 2011] NASIR, M., MONDAL, A., SENGUPTA, S., DAS, S., and ABRAHAM, A. (2011). An Improved Multiobjective Evolutionary Algorithm based on Decomposition with Fuzzy Dominance. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 752–759, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Neto et al., 2011a] Neto, A. F., Canuto, A., Goldbarg, E., and Goldbarg, M. (2011a). Optimization Techniques for the Selection of Members and Attributes in Ensemble Systems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1911–1918, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [Neto et al., 2011b] Neto, O. V., Bezerra, I., Pacheco, M. A., and Pimentel, A. (2011b). Evolutionary Optimization of Sets of Basis Functions for First-Row Atoms by Using Discretization Process. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 544–549, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Neto et al., 2011c] Neto, O. V., Pacheco, M. A., Pimentel, A., and Silveira, E. (2011c). A Parallel Evolutionary Algorithm to Search for Global Minima Geometries of Heterogeneous ab initio Atomic Clusters. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 537–543, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [NGUYEN and BHANU, 2011] NGUYEN, H. T. and BHANU, B. (2011). Tracking Pedestrians with Bacterial Foraging Optimization Swarms. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 491–495, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [NGUYEN et al., 2011] NGUYEN, T. H., NGUYEN, X. H., and McKay, R. I. (2011). A Study on Genetic Programming with Layered Learning and Incremental Sampling. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1184–1190, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [NIEN LIN et al., 2011] NIEN LIN, C., HUO, C.-L., LIN, S.-Y., YU, Y.-H., and SUN, T.-Y. (2011). Taguchi-based Disturbance with Tournament Selection to Improve on MOPSO. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1804–1809, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Noman et al., 2011] Noman, N., Bollegala, D., and Iba, H. (2011). An Adaptive Differential Evolution Algorithm. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2222–2229, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Noman and Iba, 2011] Noman, N. and Iba, H. (2011). Solving Dynamic Economic Dispatch Problems using Cellular Differential Evolution. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2626–2633, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [OH et al., 2011] OH, I. S., LEE, Y.-G., and MCKAY, R. I. (2011). Simulating Chemical Evolution. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2704–2711, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [OISO et al., 2011] OISO, M., MATSUMURA, Y., YASUDA, T., and OHKURA, K. (2011). Accelerating Steady-State Genetic Algorithms based on CUDA Architecture. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 673–678, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Okdem et al., 2011] Okdem, S., Karaboga, D., and Ozturk, C. (2011). An Application of Wireless Sensor Network Routing based on Artificial Bee Colony Algorithm. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 326–330, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [OLIVEIRA and Interciso, 2011] OLIVEIRA, P. and Interciso, M. (2011). Ternary Representation Improves the Search for Binary, One-dimensional Density Classifier Cellular Automata. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1919–1925, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Oner et al., 2011] Oner, A., Ozcan, S., and Dengi, D. (2011). Optimization of university course scheduling problem with a hybrid artificial bee colony algorithm. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 339–346, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [Ozcan and Esnaf, 2011] Ozcan, T. and Esnaf, S. (2011). A Heuristic Approach Based on Artificial Bee Colony Algorithm for Retail Shelf Space Optimization. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 95–101, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [OZTURK and KARABOGA, 2011] OZTURK, C. and KARABOGA, D. (2011). Hybrid Artificial Bee Colony Algorithm for Neural Network Training. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 84–88, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Palotti et al., 2011] Palotti, J., Salles, T., Pappa, G. L., Goncalves, M. A., and Meira, Jr., W. (2011). Assessing Documents' Credibility with Genetic Programming. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 200–207, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Papa and Garbolino, 2011] Papa, G. and Garbolino, T. (2011). Optimal On-Line Built-In Self-Test Structure for System-Reliability Improvement. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 222–229, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Parker and Fritzsche, 2011] Parker, G. and Fritzsche, P. (2011). Fitness Biasing for Evolving an Xpilot Combat Agent. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1070–1075, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Parker and Tarimo, 2011] Parker, G. and Tarimo, W. (2011). The Effects of Using a Greedy Factor in Hexapod Gait Learning. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1508–1513, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Parker et al., 2011] Parker, G., Tarimo, W., and Cantor, M. (2011). Quadruped Gait Learning Using Cyclic Genetic Algorithms. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1528–1533, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Parkinson et al., 2011] Parkinson, E., Ghandar, A., Michalewicz, Z., and Tuson, A. (2011). Estimating the Reproductive Potential of Offspring in Evolutionary Heuristics for Combinatorial Optimization Problems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 172–178, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Parracho et al., 2011] Parracho, P., Neves, R., and Horta, N. (2011). Trading with Optimized Uptrend Pattern Template using a Genetic Algorithm Kernel. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1894–1900, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [PASTI et al., 2011] PASTI, R., MAIA, R. D., VON ZUBEN, F. J., and DE CASTRO, L. N. (2011). Heuristics to Avoid Redundant Solutions on Population-Based Multimodal Continuous Optimization. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 2314–2321, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Perez and Riff, 2011] Perez, L. and Riff, M.-C. (2011). New Bounds for the Relaxed Traveling Tournament Problems using an Artificial Immune Algorithm. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 872–878, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Peterson et al., 2011] Peterson, G., Mayer, C., and Cousin, K. (2011). Wolf Ant. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 994–1001, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [Piccolo and Squillero, 2011] Piccolo, E. and Squillero, G. (2011). Adaptive Opponent Modelling for the Iterated Prisoner's Dilemma. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 835–840, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Pilat and Neruda, 2011] Pilat, M. and Neruda, R. (2011). ASM-MOMA: Multiobjective Memetic Algorithm with Aggregate Surrogate Model. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1207–1213, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [PITANGUI and ZAVERUCHA, 2011] PITANGUI, C. and ZAVERUCHA, G. (2011). Inductive Logic Programming Through Estimation of Distribution Algorithm. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 54–61, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [POLADIAN, 2011] POLADIAN, L. (2011). A Genotype-To-Phenotype Mapping For Microstructured Polymer Optical Fibres. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 378–385, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Polushina and Sofronov, 2011] Polushina, T. and Sofronov, G. (2011). Change-Point Detection in Biological Sequences via Genetic Algorithm. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1965–1970, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Pradipta et al., 2011] Pradipta, G., Hamim, Z., Das, S., and Abraham, A. (2011). Hierarchical Dynamic Neighborhood Based Particle Swarm Optimization for Global Optimization. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 744–751, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Prampero and Attux, 2011] Prampero, P. S. and Attux, R. (2011). Magnetic Particle Swarm Optimization with Estimation of Distribution. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1993–2000, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Preen and Bull, 2011] Preen, R. J. and Bull, L. (2011). Arithmetic Dynamical Genetic Programming in the XCSF Learning Classifier System. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1427–1434, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Qadir et al., 2011] Qadir, O., Liu, J., Tempesti, G., Timmis, J., and Tyrrell, A. (2011). Hardware architecture for a Bidirectional Hetero-Associative Protein Processing Associative Memory. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 208–215, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Raich and Fritz, 2011] Raich, A. and Fritz, K. (2011). Benefits of Implicit Redundant Representation Genetic Algorithms for Conceptual Design and Damage Identification. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 6–13, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [REYNOLDS et al., 2011] REYNOLDS, A., ABDOLLAHZADEH, A., CORNE, D., CHRISTIE, M., DAVIES, B., and WILLIAMS, G. (2011). A Parallel BOA-PSO Hybrid Algorithm for History Matching. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 893–900, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [REYNOLDS and Liu, 2011] REYNOLDS, R. and Liu, D. (2011). Multi-Objective Cultural Algorithms. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1238–1246, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [REYNOSO-MEZA et al., 2011] REYNOSO-MEZA, G., SANCHIS, J., BLASCO, X., and HERRERO, J. M. (2011). Hybrid DE Algorithm With Adaptive Crossover Operator For Solving Real-World Numerical Optimization Problems. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1550–1555, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [RIVERO et al., 2011a] RIVERO, D., FERNANDEZ-BLANCO, E., DORADO, J., and PAZOS, A. (2011a). A New Signal Classification Technique by Means of Genetic Algorithms and kNN. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 574–579, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [RIVERO et al., 2011b] RIVERO, D., FERNANDEZ-BLANCO, E., DORADO, J., and PAZOS, A. (2011b). Using Recurrent ANNs for the Detection of Epileptic Seizures in EEG Signals. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 580–585, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ROCHA et al., 2011] ROCHA, M., SA, T., SOUSA, P., CORTEZ, P., and RIO, M. (2011). Multiobjective Evolutionary Algorithms for Intradomain Routing Optimization. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2265–2272, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ROEDLAND, 2011] ROEDLAND, T. A. L. (2011). Classifying Glyphs by Combining Evolution and Learning. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2068–2075, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ROHLFSHAGEN and Lucas, 2011] Rohlfshagen, P. and Lucas, S. (2011). Ms Pac-Man versus Ghost Team CEC 2011 Competition. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 70–77, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ROSBERG et al., 2011] ROSBERG, I., GOLDBARG, E., and GOLDBARG, M. (2011). Solving the Light Up with Ant Colony Optimization. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 566–573, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Ross, 2011] Ross, B. (2011). Evolution of Stochastic Bio-Networks Using Summed Rank Strategies. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 772–779, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ROTHMAN et al., 2011] ROTHMAN, D., LUKE, S., and SULLIVAN, K. (2011). Do Multiple Trials Help Univariate Methods? In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2384–2391, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Rudolph, 2011] Rudolph, G. (2011). On Geometrically Fast Convergence to Optimal Dominated Hypervolume of Set-based Multiobjective Evolutionary Algorithms. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1718–1722, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Saha and Ray, 2011] Saha, A. and Ray, T. (2011). How does the good old Genetic Algorithm fare at Real World Optimization? In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1048–1055, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Saha et al., 2011] Saha, A., Ray, T., and Smith, W. (2011). Towards Practical Evolutionary Robust Multi-Objective Optimization. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2116–2123, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [Sakurai et al., 2011] Sakurai, Y., Takada, K., Tsukamoto, N., Onoyama, T., Knauf, R., and Tsuruta, S. (2011). A Simple Optimization Method based on Backtrack and GA for Delivery Schedule. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2777–2784, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [SALEKDEH and WIESE, 2011] SALEKDEH, A. Y. and WIESE, K. C. (2011). Improving Splice-Junctions Classification employing a Novel Encoding Schema and Decision-Tree. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 1301–1306, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [SALMANI-JELODAR et al., 2011] SALMANI-JELODAR, M., STEIGER, S., PAUL, A., and KLIMECK, G. (2011). Model Development for Lattice Properties of Gallium Arsenide using Parallel Genetic Algorithm. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 2422–2428, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press
- [Sanchez et al., 2011] Sanchez, E., Squillero, G., and Tonda, A. (2011). Group Evolution: Emerging Synergy through a Coordinated Effort. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2649–2655, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [SATO et al., 2011] SATO, Y., HASEGAWA, N., and SATO, M. (2011). GPU Acceleration for Sudoku Solution with Genetic Operations. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 296–303, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Schaul et al., 2011] Schaul, T., Sun, Y., Wierstra, D., Gomez, F., and Schmidhuber, J. (2011). Curiosity-Driven Optimization. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1342–1348, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Schroeder et al., 2011] Schroeder, A., Wrzodek, C., Wollnik, J., Draeger, A., Wanke, D., Berendzen, K. W., and Zell, A. (2011). Inferring Transcriptional Regulators for Sets of Coexpressed Genes by Multi-objective Evolutionary Optimization. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2278–2285, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Scola et al., 2011] Scola, L., Neto, O., Takahashi, R., and Cerqueira, S. (2011). Multiobjective Optimal Multiple Reservoir Operation. In Smith, A. E., editor, *Proceedings of the* 2011 IEEE Congress on Evolutionary Computation, pages 1926–1932, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [SEGREDO et al., 2011] SEGREDO, E., SEGURA, C., and LEON, C. (2011). A Multiobjectivised Memetic Algorithm for the Frequency Assignment Problem. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1137–1144, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [SEREN, 2011] SEREN, C. (2011). A Hybrid Jumping Particle Swarm Optimization Method for High Dimensional Unconstrained Discrete Problems. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1648–1655, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Seridi et al., 2011] Seridi, K., Jourdan, L., and Talbi, E.-G. (2011). Multi-objective Evolutionary Algorithm for Biclustering in Microarrays Data. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2573–2579, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Shaban-Nejad and Haarslev, 2011] Shaban-Nejad, A. and Haarslev, V. (2011). An Abstract Representation Model for Evolutionary Analysis of Multi-Agent Interactions. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2001–2008, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [Sharma et al., 2011] Sharma, D., Srinivasan, D., and Trivedi, A. (2011). Multi-Agent Approach for Profit Based Unit Commitment. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2507–2513, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Shelokar et al., 2011] Shelokar, P., Arnaud, Q., and Oscar, C. (2011). Subgraph Mining in Graph-based Data using Multiobjective Evolutionary Programming. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 1729–1736, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [SHI et al., 2011] SHI, E. C., LEUNG, F. H., and LAI, J. C. (2011). An Adaptive Differential Evolution with Unsymmetrical Mutation. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1878–1885, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [SHI and SONG, 2011] SHI, Q. and SONG, A. (2011). Selective Motion Detection by Genetic Programming. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 496–503, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Shindo et al., 2011] Shindo, T., Kurihara, T., Taguchi, H., and Jin'no, K. (2011). Particle swarm optimization for sigle phase PWM inverters. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2481–2485, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Shirasaki et al., 2011] Shirasaki, Y., Shimomura, S., Sugimoto, M., Uwate, Y., and Nishio, Y. (2011). Effectiveness of Guidepost Pheromone for Honeybee Colony Optimization. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1792–1797, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Shirazi et al., 2011] Shirazi, A. S., von Mammen, S., and Jacob, C. (2011). Hierarchical Self-Organized Learning in Agent-Based Modeling of the MAPK Signaling Pathway. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2238–2244, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [SILVA et al., 2011] SILVA, D., PACIFICO, L., and LUDERMIR, T. (2011). An Evolutionary Extreme Learning Machine Based on Group Search Optimization. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 760–766, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [SINGH and RAY, 2011] SINGH, H. K. and RAY, T. (2011). Performance of a Hybrid EA-DE-Memetic Algorithm on CEC 2011 Real World Optimization Problems. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1321–1325, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Sonstrod et al., 2011] Sonstrod, C., Johansson, U., and Konig, R. (2011). Evolving Accurate and Comprehensible Classification Rules. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1435–1442, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Spangenberg et al., 2011] Spangenberg, J., Tutum, C. C., Hattel, J. H., Roussel, N., and Geiker, M. R. (2011). Optimization of Casting Process Parameters for Homogeneous Aggregate Distribution in Self-Compacting Concrete: A Feasibility Study. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2156–2162, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Srinivasan and Ly, 2011] Srinivasan, D. and Ly, T. T. (2011). Co-evolutionary Bidding Strategies for Buyers in Electricity Power Markets. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2499–2506, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [STEINER and SENDHOFF, 2011] STEINER, T. and SENDHOFF, B. (2011). Evolvability of Graph- and Vector Field Embryogeny Representations. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1271–1278, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Takahama and Sakai, 2011] Takahama, T. and Sakai, S. (2011). Efficient Nonlinear Optimization by Differential Evolution with a Rotation-Invariant Local Sampling Operation. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2208–2215, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Tantar et al., 2011] Tantar, E., Tantar, A.-A., and Pascal, B. (2011). On dynamic multiobjective optimization, classification and performance measures. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 2746–2753, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Tasgetiren et al., 2011] Tasgetiren, M. F., Bulut, O., and Fadiloglu, M. M. (2011). A Discrete Artificial Bee Colony Algorithm For the Economic Lot Scheduling Problem. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 347–353, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Thillainathan and Srinivasan, 2011] Thillainathan, L. and Srinivasan, D. (2011). LRGA for Solving Profit based Generation Scheduling Problem in Competitive Environment. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1153–1159, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Tizzo et al., 2011] Tizzo, N. P., Coello, J. M. A., and Cardozo, E. (2011). Automatic Composition of Semantic Web Services Using A-Teams with Genetic Agents. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 370–377, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [TJIONG and MONTEIRO, 2011] TJIONG, A. and MONTEIRO, S. (2011). Feature Selection with PSO and Kernel Methods for Hyperspectral Classification. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1761–1768, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Toledo et al., 2011] Toledo, C., Oliveira, R., and Franca, P. (2011). A Hybrid Heuristic Approach to Solve the Multi Level Capacitated Lot Sizing Problem. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 1199–1206, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Tomforde et al., 2011] Tomforde, S., Brameshuber, A., Haehner, J., and Mueller-Schloer, C. (2011). Restricted On-line Learning in Real-world Systems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1627–1634, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Trivedi et al., 2011] Trivedi, A., M.Pindoriya, N., Srinivasan, D., and Sharma, D. (2011). Improved Multi-objective Evolutionary Algorithm for Day-Ahead Thermal Generation Scheduling. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2163–2170, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [TSANG and JACOB, 2011] TSANG, H. H. and JACOB, C. (2011). RNADPCompare: An Algorithm for Comparing RNA Secondary Structures Based on Image Processing Techniques. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1287–1294, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [TSUJIMOTO et al., 2011] TSUJIMOTO, T., SHINDO, T., and JIN'NO, K. (2011). The Neighborhood of Canonical Deterministic PSO. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1810–1816, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [TSUTSUI and FUJIMOTO, 2011] TSUTSUI, S. and FUJIMOTO, N. (2011). Fast QAP Solving by ACO with 2-opt Local Search on a GPU. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 811–818, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Tutum and Fan, 2011] Tutum, C. C. and Fan, Z. (2011). Multi-Criteria Layout Synthesis of MEMS Devices Using Memetic Computing. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 901–907, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [U et al., 2011] U, M., Ho, C., Funk, S., and Rasheed, K. (2011). GART: A Genetic Algorithm based Real Time System Scheduler. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 885–892, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Uchitane and Hatanaka, 2011] Uchitane, T. and Hatanaka, T. (2011). Applying Evolution Strategies to Biped Locomotion Learning in RoboCup 3D Soccer Simulation. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 179–185, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Uemura et al., 2011] Uemura, K., ichi Kinoshita, S., Nagata, Y., Kobayashi, S., and Ono, I. (2011). A New Framework taking account of Multi-funnel Functions for Real-coded Genetic Algorithms. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 2084–2091, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Valdes et al., 2011] Valdes, J. J., Cheung, C., and Wang, W. (2011). Evolutionary Computation Methods for Helicopter Loads Estimation. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1588–1595, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Vansant et al., 2011] Vansant, G., Pezzoli, P., Monforte, J., and Fogel, G. (2011). High-Throughput Toxicological Classification of Candidate Drug Compounds Using Gene Expression, Evolved Neural Networks, and a Cell-based Platform. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 788–794, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [VASICEK and BIDLO, 2011] VASICEK, Z. and BIDLO, M. (2011). Evolutionary Design of Robust Noise-Specific Image Filters. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 269–276, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [VAZQUEZ et al., 2011] VAZQUEZ, E., COELLO COELLO, C. A., and SAGOLS, F. (2011). An Evolutionary Algorithm for Tuning a Chess Evaluation Function. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 841–847, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [VAZQUEZ, 2011] VAZQUEZ, R. A. (2011). Training Spiking Neural Models using Cuckoo Search Algorithm. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 665–672, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Veroneze et al., 2011] Veroneze, R., de Franca, F., and Von Zuben, F. J. (2011). Assessing the Performance of a Swarm-based Biclustering Technique for Data Imputation. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 386–393, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Wahib et al., 2011] Wahib, M., Munawar, A., Munetomo, M., and Akama, K. (2011). Optimization of Parallel Genetic Algorithms for nVidia GPUs. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 802–810, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [WALSH and GADE, 2011] WALSH, P. and GADE, P. (2011). The Use of an Aesthetic Measure for the Evolution of Fractal Landscapes. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 1612–1618, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Wang et al., 2011a] Wang, H., Rahnamayan, S., and Wu, Z. (2011a). Adaptive Differential Evolution with Variable Population Size for Solving High-Dimensional Problems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2619–2625, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Wang et al., 2011b] Wang, L., Mabu, S., and Hirasawa, K. (2011b). Genetic Network Programming with Updating Rule Accumulation. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2252–2259, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Wang et al., 2011c] Wang, P., Tang, K., Tsang, E., and Yao, X. (2011c). A Memetic Genetic Programming with Decision Tree-based Local Search for Classification Problems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 916–923, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Wang et al., 2011d] Wang, Y., Bin, L., Zhen, H., and Kaibo, Z. (2011d). Enhancing Differential Evolution with Effective Evolutionary Local Search in Memetic Framework. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2445–2452, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Wang et al., 2011e] Wang, Y., Li, B., and Zhang, K. (2011e). Estimation of Distribution and Differential Evolution Cooperation for Real-world Numerical Optimization Problems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1314–1320, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Wang et al., 2011f] Wang, Z., Yang, R., Wang, L., Green, II, R., and Dounis, A. (2011f). A Fuzzy Adaptive Comfort Temperature Model with Grey Predictor for Multi-agent Control System of Smart Building. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 715–722, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Wei and Zhang, 2011] Wei, J. and Zhang, M. (2011). A Memetic Particle Swarm Optimization for Constrained Multi-objective Optimization Problems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1635–1642, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [WEI GONG et al., 2011] WEI GONG, D., LIANG QI, C., ZHANG, Y., and LI, M. (2011). Modified Particle Swarm Optimization for Odor Source Localization of Multi-robot. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 130–136, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Wen and Xu, 2011] Wen, Y. and Xu, H. (2011). A Cooperative Coevolution-Based Pittsburgh Learning Classifier System Embedded with Memetic Feature Selection. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 2408–2415, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [WILCOX et al., 2011] WILCOX, D., MCNABB, A., and SEPPI, K. (2011). Solving Virtual Machine Packing with a Reordering Grouping Genetic Algorithm. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 362–369, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Wong et al., 2011] Wong, M., He, X., and Chang Yeh, W. (2011). Image Clustering Using Particle Swarm Optimization. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 262–268, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [Wu et al., 2011] Wu, Y., McCall, J., and Corne, D. (2011). Fitness Landscape Analysis of Bayesian Network Structure Learning. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 980–987, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [XING et al., 2011] XING, Y., MABU, S., and HIRASAWA, K. (2011). Pruning Generalized Rules for Stock Markets Accumulated by Genetic Network Programming with Rule Accumulation. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 2461–2467, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Xiong et al., 2011] Xiong, J., Liu, J., Chen, Y., and Abbass, H. (2011). An Evolutionary Multiobjective Scenario-Based Approach for Stochastic Resource Investment Project Scheduling. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2754–2761, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Yagoubi et al., 2011] Yagoubi, M., Thobois, L., and Schoenauer, M. (2011). Asynchronous Evolutionary Multi-Objective Algorithms with Heterogenous Evaluation Costs. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 21–28, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Yapicioglu and Smith, 2011] Yapicioglu, H. and Smith, A. E. (2011). Disservice Representation Using the Gini Coefficient in Semi-desirable Facility Location Problems. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 110–114, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [YE and MOHAMADIAN, 2011] YE, Z. and MOHAMADIAN, H. (2011). Strengthen Accuracy of Feature Recognition via Integration of Ant Colony Detection and Adaptive Contour Tracking. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1798–1803, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [YEN et al., 2011] YEN, L. T. X., SHARMA, D., SRINIVASAN, D., and MANJI, P. N. (2011). A Modified Hybrid Particle Swarm Optimization Approach for Unit Commitment. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1737–1744, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Yoon and Cho, 2011] Yoon, J.-W. and Cho, S.-B. (2011). An Efficient Genetic Algorithm with Fuzzy c-Means Clustering for Traveling Salesman Problem. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1451–1455, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Yu et al., 2011] Yu, J. J., Lam, A. Y., and Li, V. O. (2011). Evolutionary Artificial Neural Network Based on Chemical Reaction Optimization. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2076–2083, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Zamorano et al., 2011] Zamorano, A. G., Timmis, J., and Tyrrell, A. (2011). A Flexible Decentralised Communication Architecture on a Field Programmable Gate Array for Swarm System Simulations. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 230–237, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ZENG et al., 2011] ZENG, F., JAMES, D., LOW, M. Y. H., CAI, W., and HINGSTON, P. (2011). Studies of Pareto-based Multi-objective Competitive Coevolutionary Dynamics. In SMITH, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2376–2383, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Zhan and Zhang, 2011] Zhan, Z. and Zhang, J. (2011). Orthogonal Learning Particle Swarm Optimization for Power Electronic Circuit Optimization with Free Search Range. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2543–2550, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.

- [Zhang et al., 2011a] Zhang, D., Mabu, S., Wen, F., and Hirasawa, K. (2011a). A Sequential Subspace Face Recognition Framework using Genetic-based Clustering. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 394–400, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [ZHANG, 2011a] ZHANG, H. (2011a). An Analysis of Multiple Particle Swarm Optimizers with Inertia Weight with Diversive Curiosity. In SMITH, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 1753–1760, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Zhang, 2011b] Zhang, H. (2011b). Assessment of An Evolutionary Particle Swarm Optimizer with Inertia Weight. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1745–1752, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Zhang et al., 2011b] Zhang, J., Chen, S., Levy, D., and Lu, Y. (2011b). Feedback Loop Mechanisms based Particle Swarm Optimization with Neighborhood Topology. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 1863–1870, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Zhong et al., 2011] Zhong, W., Zhang, Y., and Liu, J. (2011). Evolutionary Dynamics of Continuous Strategy Games on Social Networks under Weak Selection: A Preliminary Study. In Smith, A. E., editor, *Proceedings of the 2011 IEEE Congress on Evolutionary Computation*, pages 2494–2498, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.
- [Zhou et al., 2011] Zhou, L., Zhou, A., Zhang, G., and Shi, C. (2011). An Estimation of Distribution Algorithm based on Nonparametric Density Estimation. In Smith, A. E., editor, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, pages 1596–1603, New Orleans, USA. IEEE Computational Intelligence Society, IEEE Press.