## Список литературы

- [1] D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, editors, *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, IEEE Press, 2002.
- [2] A. Meade, D. Corne, and R. Sibly, Discovering Patterns in Microsatellite Flanks with Evolutionary Computation by Evolving Discriminatory DNA Motifs, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1–6, IEEE Press, 2002.
- [3] S. J. Anastasoff, The Presence of Old Alus in GC-Rich Regions of the Human Genome A Genetic Algorithm Perspective, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 7–12, IEEE Press, 2002.
- [4] D. Ashlock, A. Wittrock, and T.-J. Wen, Training Finite State Machines to Improve PCR Primer Design, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 13–18, IEEE Press, 2002.
- [5] N. Matsumaru, S. Colombano, and K.-P. Zauner, Scouting Enzyme Behavior, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 19–24, IEEE Press, 2002.
- [6] G. G. Yen and H. Lu, Hierarchical Rank Density Genetic Algorithm for Radial-Basis Function Neural Network Design, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 25–30, IEEE Press, 2002.
- [7] K. C. Tan, K. Sengupta, T. H. Lee, and R. Sathikannan, Autonomous Registration of Disparate Spatial Data Via an Evolutionary Algorithm Toolbox, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 31–36, IEEE Press, 2002.
- [8] R. Thomson and T. Arslan, An Evolutionary Algorithm for the Multi-objective Optimisation of VLSI Primitive Operator Filters, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 37–42, IEEE Press, 2002.
- [9] J. Gan and K. Warwick, Modelling Niches of Arbitrary Shape in Genetic Algorithms using Niche Linkage in the Dynamic Niche Clustering Framework, in *Proceedings of the 2002 Congress* on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 43–48, IEEE Press, 2002.
- [10] J. Hu and E. D. Goodman, The Hierarchical Fair Competition (HFC) Model for Parallel Evolutionary Algorithms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 49–54, IEEE Press, 2002.
- [11] S. Droste, Analysis of the (1+1) EA for a Dynamically Changing OneMax-Variant, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 55–60, IEEE Press, 2002.
- [12] K. Deb, D. Joshi, and A. Anand, Real-Coded Evolutionary Algorithms with Parent-Centric Recombination, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 61–66, IEEE Press, 2002.

- [13] V. Ciesielski and D. Mawhinney, Prevention of Early Convergence in Genetic Programming by Replacement of Similar Programs, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 67–72, IEEE Press, 2002.
- [14] F. Tanaka, M. Nakatsugawa, M. Yamamoto, T. Shiba, and A. Ohuchi, Towards a General-Purpose Sequence Design System in DNA Computing, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 73–78, IEEE Press, 2002.
- [15] S.-Y. Shin, D.-M. Kim, I.-H. Lee, and B.-T. Zhang, Evolutionary Sequence Generation for Reliable DNA Computing, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 79–84, IEEE Press, 2002.
- [16] M. Yamamoto, A. Kameda, N. Matsuura, T. Shiba, and A. Ohuchi, Simulation Analysis of Hybridization Process for DNA Computing with Concentration Control, in *Proceedings of the* 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 85–90, IEEE Press, 2002.
- [17] M. Nakatsugawa, M. Yamamoto, T. Shiba, and A. Ohuchi, Design of a PCR Protocol for Improving Reliability of PCR in DNA Computing, in *Proceedings of the 2002 Congress* on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 91–96, IEEE Press, 2002.
- [18] L. Costa and P. Oliveira, An Evolution Strategy for Multiobjective Optimization, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 97–102, IEEE Press, 2002.
- [19] D. J. Caswell and G. B. Lamont, Wire-Antenna Geometry Design with Multiobjective Genetic Algorithms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 103–108, IEEE Press, 2002.
- [20] K. Socha and M. Kisiel-Dorohinicki, Agent-based Evolutionary Multiobjective Optimisation, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 109–114, IEEE Press, 2002.
- [21] W. Pullan, Optimising Multiple Aspects of Network Survivability, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 115–120, IEEE Press, 2002.
- [22] R. Thomsen, G. B. Fogel, and T. Krink, A Clustal Alignment Improver Using Evolutionary Algorithms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 121–126, IEEE Press, 2002.
- [23] R. O. Day, J. B. Zydallis, G. Lamont, and R. Pachter, Analysis of Fine Granularity and Building Block Sizes in the Parallel Fast Messy GA, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 127–132, IEEE Press, 2002.
- [24] J. J. Rowland and J. Taylor, Adaptive Denoising in Spectral Analysis by Genetic Programming, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 133–138, IEEE Press, 2002.

- [25] L. G. Volkert, Levels of Adaptation: Insights into Survival in Dynamic Environments, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 139–144, IEEE Press, 2002.
- [26] C. N. Bendtsen and T. Krink, Dynamic Memory Model for Non-Stationary Optimization, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 145–150, IEEE Press, 2002.
- [27] S. D. Mueller, N. N. Schraudolph, and P. D. Koumoutsakos, Step Size Adaptation in Evolution Strategies using Reinforcement Learning, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 151–156, IEEE Press, 2002.
- [28] J. Wiles and B. Tonkes, Visualisation of Hierarchical Cost Surfaces for Evolutionary Computing, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 157–162, IEEE Press, 2002.
- [29] S.-I. Lee and S.-B. Cho, Measuring Evolvability in Evolutionary Robotics, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 163–168, IEEE Press, 2002.
- [30] K. C. Tsui and J. Liu, Evolutionary Diffusion Optimization, Part I: Description of the Algorithm, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 169–174, IEEE Press, 2002.
- [31] A. Madureira, C. Ramos, and S. do Carmo Silva, A Coordination Mechanism for Real World Scheduling Problems Using Genetic Algorithms, in *Proceedings of the 2002 Congress* on *Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 175–180, IEEE Press, 2002.
- [32] J. Kacprzyk and G. Szkatula, An Integer Programming Approach to Inductive Learning Using Genetic Algorithm, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 181–186, IEEE Press, 2002.
- [33] W. H. Land, Jr., M. Bryden, D. W. McKee, J. Y. Lo, and F. R. Anderson, Performance Tradeoff Between Evolutionary Computation (EC)/Adaptive Boosting (AB) Hybrid and Support Vector Machine Breast Cancer Classification Paradigms, in *Proceedings of the 2002 Congress* on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 187–192, IEEE Press, 2002.
- [34] M. Watts, L. Major, and W. Tate, Evolutionary Optimisation of MLP for Modeling Protein Synthesis Termination Signal Efficiency, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 193–198, IEEE Press, 2002.
- [35] D. Landavazo and G. B. Fogel, Evolved Neural Networks for Quantitative Structure-Activity Relationships of Anti-HIV Compounds, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 199–204, IEEE Press, 2002.
- [36] N. Geard, J. Wiles, J. Hallinan, B. Tonkes, and B. Skellett, A Comparison of Neutral Landscapes -NK, NKp and NKq, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 205–210, IEEE Press, 2002.

- [37] N. Geard and J. Wiles, Diversity Maintenance on Neutral Landscapes An Argument for Recombination, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 211–213, IEEE Press, 2002.
- [38] A. H. Wright, J. E. Rowe, and J. R. Neil, Analysis of the Simple Genetic Algorithm on the Single-peak and Double-peak Landscapes, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 214–219, IEEE Press, 2002.
- [39] H.-K. Jeong and S.-Y. Oh, Evolutionary Programming Integrating 3-Generation Based Mutation and Local Competition Based Selection, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 220–224, IEEE Press, 2002.
- [40] F. Lindblad, P. Nordin, and K. Wolff, Evolving 3D model interpretation of images using graphics hardware, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 225–230, IEEE Press, 2002.
- [41] I. De Falco, A. D. Cioppa, and E. Tarantino, Unsupervised Spectral Pattern Recognition for Multispectral Images by means of a Genetic Programming approach, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 231–236, IEEE Press, 2002.
- [42] T. Yuizono, Y. Wang, K. Satoh, and S. Nakayama, Study on Individual Recognition for Ear Images by using Genetic Local Search, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 237–242, IEEE Press, 2002.
- [43] A. Song, V. Ciesielski, and H. Williams, Texture Classifiers Generated by Genetic Programming, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 243–248, IEEE Press, 2002.
- [44] M. Clergue and P. Collard, GA-Hard Functions Built by Combination of Trap Functions, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 249–254, IEEE Press, 2002.
- [45] T. Mahnig and H. Muehlenbein, A Comparison of Stochastic Local Search and Population Based Search, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 255–260, IEEE Press, 2002.
- [46] N. G. Kim, J. M. Won, J. S. Lee, and S. W. Kim, Local Convergence Rate of Evolutionary Algorithm with Combined Mutation Operator, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 261–266, IEEE Press, 2002.
- [47] M. Iwashita and H. Iba, Island Model GP with Immigrants Aging and Depth-Dependent Crossover, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 267–272, IEEE Press, 2002.
- [48] J. M. Daida, Limits to Expression in Genetic Programming: Lattice-Aggregate Modeling, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 273–278, IEEE Press, 2002.

- [49] T. P. Runarsson and X. Yao, Continuous Selection and Self-Adaptive Evolution Strategies, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 279–284, IEEE Press, 2002.
- [50] M. Yasunaga, K. Ushiyama, H. Fujiwara, I. Yoshihara, J. H. Kim, and N. Aibe, An Evolutionary Kernel-Based Reasoning System Using Reconfigurable VLSIs: Its Hardware Prototyping and Application to the Splicing Boundary Problem, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 285–290, IEEE Press, 2002.
- [51] S. Ando, H. Iba, and E. Sakamoto, Modeling Genetic Network by Hybrid GP, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 291–296, IEEE Press, 2002.
- [52] J. Liu and H. Iba, Selecting Informative Genes Using a Multiobjective Evolutionary Algorithm, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 297–302, IEEE Press, 2002.
- [53] I. Ono, H. Fujiki, M. Ootsuka, N. Nakashima, N. Ono, and S. Tate, Global Optimization of Protein 3-Dimensional Structures in NMR by a Genetic Algorithm, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 303–308, IEEE Press, 2002.
- [54] H. D. Nguyen, I. Yoshihara, K. Yamamori, and M. Yasunaga, A Parallel Hybrid Genetic Algorithm for Multiple Protein Sequence Alignment, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 309–314, IEEE Press, 2002.
- [55] S. Chiba and K. Sugawara, Estimation of Protein Function with an Evolutionary Dictionary, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 315–320, IEEE Press, 2002.
- [56] S. Mabu, K. Hirasawa, J. Hu, and J. Murata, Online learning of Genetic Network Programming (GNP), in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 321–326, IEEE Press, 2002.
- [57] J. A. Etzel, "Marigolds:"An Evolutionary Algorithm Simulation, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 327–332, IEEE Press, 2002.
- [58] C. M. Jonker, A. P. G. de Kock, J. Meijer, and B. J. Vermeulen, Deliberate Evolution Agents: Comparing Reproduction Strategies, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 333–338, IEEE Press, 2002.
- [59] F.-S. Hsieh, Design of Evolvable Manufacturing Processes, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 339–344, IEEE Press, 2002.
- [60] C. Cambier, M. Piron, and A. Cardon, Self-adaptive systems using a Massive Multi-agent system, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 345–350, IEEE Press, 2002.

- [61] A. Al-Yamani, S. M. Sait, and H. R. Barada, HPTS: Heterogeneous Parallel Tabu Search for VLSI Placement, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 351–355, IEEE Press, 2002.
- [62] K. G. Khoo and P. N. Suganthan, Objective Function Decomposition within Genetic Algorithm, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 356–359, IEEE Press, 2002.
- [63] Y. Sano and H. Kita, Optimization of Noisy Fitness Functions by means of Genetic Algorithms using History of Search with Test of Estimation, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 360–365, IEEE Press, 2002.
- [64] V. Cutello, E. Mastriani, and F. Pappalardo, An evolutionary algorithm for the T-constrained variation of Minimum Hitting Set Problem, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 366–371, IEEE Press, 2002.
- [65] S. M. Sait, M. R. Minhas, and J. A. Khan, Performance and Low Power Driven VLSI Standard Cell Placement using Tabu Search, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 372–377, IEEE Press, 2002.
- [66] S.-K. Oh, C.-Y. Lee, and J.-J. Lee, A New Distributed Evolutionary Algorithm for Optimization in Nonstationary Environments, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 378–383, IEEE Press, 2002.
- [67] Y.-C. Liang, S. Kulturel-Konak, and A. E. Smith, Meta Heuristics for the Orienteering Problem, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 384–389, IEEE Press, 2002.
- [68] K. Rasheed, X. Ni, and S. Vattam, Comparison of Methods for Developing Dynamic Reduced Models for Design Optimization, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 390–395, IEEE Press, 2002.
- [69] B. Greer, H. Hakonen, R. Lahdelma, and R. Miikkulainen, Numerical Optimization with Neuroevolution, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 396–401, IEEE Press, 2002.
- [70] A. Cincotti, V. Cutello, and M. Pavone, Graph Partitioning with Genetic Algorithms using ODPX, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 402–406, IEEE Press, 2002.
- [71] K. J. Kim and S.-B. Cho, Evolving Speciated Checkers Players with Crowding Algorithm, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 407–412, IEEE Press, 2002.
- [72] D. Sofge, K. De Jong, and A. Schultz, A Blended Population Approach to Cooperative Coevolution for Decomposition of Complex Problems, in *Proceedings of the 2002 Congress* on *Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 413–418, IEEE Press, 2002.

- [73] T. Ray, Constrained Robust Optimal Design using a Multiobjective Evolutionary Algorithm, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 419–424, IEEE Press, 2002.
- [74] R. Kumar, P. P. Parida, and M. Gupta, Topological Design of Communication Networks using Multiobjective Genetic Optimization, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 425–430, IEEE Press, 2002.
- [75] A. Bahuman, K. Rasheed, and B. Bishop, An Evolutionary Approach for VLSI Standard Cell Design, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 431–436, IEEE Press, 2002.
- [76] K. sung Hwang and S. bae Cho, Evolving Diverse Hardwares Using Speciated Genetic Algorithm, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 437–442, IEEE Press, 2002.
- [77] C.-C. Hsu, W.-Y. Wang, and C.-Y. Yu, Genetic Algorithms-Derived Digital Integrators and Their Applications in Discretization of Continuous Systems, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 443–448, IEEE Press, 2002.
- [78] C. K. Ho, Y. P. Singh, and S. W. Lee, Enhancement Of A Genetic Algorithm For Optical Orthogonal Code Design Using Simulated Annealing, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 449–453, IEEE Press, 2002.
- [79] H. de Garis, Evolvability Limits: A Case Study Concerning the Modular Evolvable Capacities (MECs) of a New Neural Net Model for a Second Generation Brain Building Machine BM2, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 454–459, IEEE Press, 2002.
- [80] J.-H. Lee and S.-B. Cho, Analysis of Direct Manipulation in Interactive Evolutionary Computation on Fitness Landscape, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 460–465, IEEE Press, 2002.
- [81] R. R. Cazangi and M. Figueiredo, Simultaneous Emergence of Conflicting Basic Behaviors and Their Coordination in an Evolutionary Autonomous Navigation System, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 466–471, IEEE Press, 2002.
- [82] Y. Takenaka and A. Hashimoto, DNA computing by competitive hybridization for maximum satisfiability problem, in *Proceedings of the 2002 Congress on Evolutionary Computation* CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 472–476, IEEE Press, 2002.
- [83] W. Bin, Z. Yi, L. Shaohui, and S. Zhongzhi, CSIM: A Document Clustering Algorithm Based On Swarm Intelligence, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 477–482, IEEE Press, 2002.
- [84] D. H. Kim, W. pyo Hong, and J. I. Park, Auto-Tuning Of Reference Based PID Controller Using Immune Algorithm, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 483–488, IEEE Press, 2002.

- [85] B. Al-kazemi and C. K. Mohan, Multi-Phase Generalization of the Particle Swarm Optimization Algorithm, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 489–494, IEEE Press, 2002.
- [86] A. Sutcliffe, W.-C. Chang, and R. Neville, Optimizing System Requirements with Evolutionary Computation, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 495–499, IEEE Press, 2002.
- [87] C. Wang, Y. C. Soh, H. Wang, and H. Wang, A Hierarchical Genetic Algorithm for Path Planning in a Static Environment with Obstacles, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 500–505, IEEE Press, 2002.
- [88] C.-F. Tsai, C.-W. Tsai, and C.-P. Chen, A Novel Multiple-Searching Genetic Algorithm for Multimedia Multicast Routing, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 506–511, IEEE Press, 2002.
- [89] C. Wen and R. C. Eberhart, Genetic Algorithm for Logistics Scheduling Problem, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 512–516, IEEE Press, 2002.
- [90] D. Dasgupta and A. Stoliartchouk, Evolving PC System Hardware Configurations, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 517–522, IEEE Press, 2002.
- [91] I. Watanabe, K. Okada, K. ichi Tokoro, and S. Matsui, Adaptive Multiagent Model of Electric Power Market with Congestion Management, in *Proceedings of the 2002 Congress* on *Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 523–528, IEEE Press, 2002.
- [92] A. Moroni, F. Von Zuben, J. Manzolli, and A. Mammana, Capturing Human Judgment to Simulate Objective Function, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 529–534, IEEE Press, 2002.
- [93] J. C. Hernandez, P. Isasi, and A. Ribagorda, Easing collision finding in cryptographic primitives with genetic algorithms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 535–539, IEEE Press, 2002.
- [94] B. Kimiaghalam, A. Homaifar, M. Bikdash, and B. Sayyarrodsari, Genetic Algorithm Based Gain Scheduling, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 540–545, IEEE Press, 2002.
- [95] Y. Tsujimura, M. Gen, and A. Syarif, Solving A Nonlinear Side Constrained Transportation Problem by Using Spanning Tree-based Genetic Algorithm with Fuzzy Logic Controller, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 546–551, IEEE Press, 2002.
- [96] G. Dozier, A Comparison of Adaptive Virtual Constraint Identification Strategies for Recurrent Dynamic Constraint Satisfaction, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 552–557, IEEE Press, 2002.

- [97] Y. Li and L. Kang, Analysis of Optimal Trajectory on Evolutionary Algorithm and Some Control Strategies, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 558–563, IEEE Press, 2002.
- [98] E. Eberbach, On Expressiveness of Evolutionary Computation: Is EC Algorithmic?, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 564–569, IEEE Press, 2002.
- [99] K. Willadsen and J. Wiles, All binary representations are equal: but some are more equal than others, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 570–575, IEEE Press, 2002.
- [100] P. Popela, J. Roupec, P. Osmera, and R. Matousek, The Formal Stochastic Framework for Comparison of Genetic Algorithms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 576–581, IEEE Press, 2002.
- [101] A. E. Eiben and M. Jelasity, A Critical Note on Experimental Research Methodology in EC, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 582–587, IEEE Press, 2002.
- [102] M. Coletti, A Preliminary Study of Learnable Evolution Methodology implemented with C4. 5, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 588–593, IEEE Press, 2002.
- [103] S.-Y. Ho, C.-C. Liu, S. Liu, and J.-W. Jou, Design of an Optimal Nearest Neighbor Classifier Using an Intelligent Genetic Algorithm, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 594–599, IEEE Press, 2002.
- [104] J. Watson and J. Wiles, The rise and fall of learning: A neural network model of the genetic assimilation of acquired traits, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 600–605, IEEE Press, 2002.
- [105] M. Watts and N. Kasabov, Evolutionary Optimisation of Evolving Connectionist Systems, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 606–610, IEEE Press, 2002.
- [106] M. A. Guinea, G. Gutierrez, I. Galvan, A. Sanchis, and J. M. Molina, Generative Capacities of Grammars Codification for Evolution of NN Architectures, in *Proceedings of the 2002 Congress* on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 611–616, IEEE Press, 2002.
- [107] P. K. Kim, P. Vadakkepat, T.-H. Lee, and X. Peng, Evolution of Control Systems for Mobile Robots, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 617–622, IEEE Press, 2002.
- [108] A. v. E. Conradie, R. Mikkulainen, and C. Aldrich, Intelligent Process Control utilising Symbiotic Memetic Neuro-Evolution, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 623–628, IEEE Press, 2002.

- [109] S. E. Eklund, A Massively Parallel GP Engine in VLSI, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 629–633, IEEE Press, 2002.
- [110] S. Y. Chen and Y. F. Li, Optimum Viewpoint Planning for Model-Based Robot Vision, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 634–639, IEEE Press, 2002.
- [111] K. MORI, S. Nishi, T. Fuchida, and S. Murashima, Two Dimensional Resolution Improvement of Frame Images by Genetic Algorithms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 640–645, IEEE Press, 2002.
- [112] A. Acan, Reciprocal Translocation with Adaptive Segment Length, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 646–651, IEEE Press, 2002.
- [113] Y. Liu and X. Yao, How to Control Search Step Size in Fast Evolutionary Programming, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 652–656, IEEE Press, 2002.
- [114] A. Dukkipati and M. N. Murty, Selection by Parts: 'Selection in Two Episodes' in Evolutionary Algorithms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 657–662, IEEE Press, 2002.
- [115] T. Murata, H. Nozawa, Y. Tsujimura, M. Gen, and H. Ishibuchi, Effect of Local Search on the Performance of Cellular Multi-Objective Genetic Algorithms for Designing Fuzzy Rulebased Classification Systems, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 663–668, IEEE Press, 2002.
- [116] V. Hafner and R. Salomon, Evolving Neural Controllers for Visual Navigation, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 669–674, IEEE Press, 2002.
- [117] D. H. Kim, Tuning of 2-DOF PID Controller By Immune Algorithm, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 675–680, IEEE Press, 2002.
- [118] J.-W. Kim, S. W. Kim, P. Park, and T. J. Park, On the Similarities between Binary-Coded GA and Real-Coded GA in Wide Search Space, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 681–686, IEEE Press, 2002.
- [119] M. A. Janssen and D. W. Stow, An Application of Immunocomputing to the Evolution of Rules for Ecosystem Management, in *Proceedings of the 2002 Congress on Evolutionary Computation* CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 687–692, IEEE Press, 2002.
- [120] F. Nino and O. Beltran, A change detection software agent based on immune mixed selection, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 693–698, IEEE Press, 2002.

- [121] L. N. de Castro and J. Timmis, An Artificial Immune Network for Multimodal Function Optimization, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 699–704, IEEE Press, 2002.
- [122] F. Gonzalez, D. Dasgupta, and R. Kozma, Combining Negative Selection and Classification Techniques for Anomaly Detection, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 705–710, IEEE Press, 2002.
- [123] J. Knowles and D. Corne, On Metrics for Comparing Non-Dominated Sets, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 711–716, IEEE Press, 2002.
- [124] C. Valenzuela, A Simple Evolutionary Algorithm for Multi-Objective Optimization (SEAMO), in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 717–722, IEEE Press, 2002.
- [125] A. Farhang-Mehr and S. Azarm, Diversity Assessment of Pareto-Optimal Solution Sets: An Entropy Approach, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 723–728, IEEE Press, 2002.
- [126] T. Tassier, M. P. Everson, and D. Ostrowski, Agent-Based Models as a Complement to Economic Theory: A Durable Goods Example, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 729–734, IEEE Press, 2002.
- [127] M. P. Everson, C. G. E. Mangin, C. Stumpo, J. M. Schwartz, and D. A. Ostrowski, Evaluating Strategies for Foreign Exchange Risk Reduction, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 735–740, IEEE Press, 2002.
- [128] D. Ostrowski, T. Tassier, M. P. Everson, and R. G. Reynolds, Using Cultural Algorithms to Evolve Strategies in Agent-Based Models, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 741–746, IEEE Press, 2002.
- [129] G. Schleis and M. Rizki, Learning from a Random Player using the Reference Neuron Model, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 747–752, IEEE Press, 2002.
- [130] D. Crutchley and M. Zwolinski, Using Evolutionary and Hybrid Algorithms for DC Operating Point Analysis of Nonlinear Circuits, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 753–758, IEEE Press, 2002.
- [131] C. L. Karr, T. A. Zeiler, and R. Mehrotra, Determining Critical Gust Loads on Aircraft Structures Using an Evolutionary Algorithm, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 759–764, IEEE Press, 2002.
- [132] R. Goto and Y. Sato, Applicability of Genetic Algorithms to Motion Analysis of a Moving Object, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 765–770, IEEE Press, 2002.

- [133] Z. Stejic, E. M. Iyoda, Y. Takama, and K. Hirota, Image Similarity Computation Using Local Similarity Patterns Generated by Genetic Algorithm, in *Proceedings of the 2002 Congress* on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 771–776, IEEE Press, 2002.
- [134] T. Beielstein and S. Markon, Threshold Selection, Hypothesis Tests, and DOE Methods, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 777–782, IEEE Press, 2002.
- [135] M. Hutter, Fitness Uniform Selection to Preserve Genetic Diversity, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 783–788, IEEE Press, 2002.
- [136] Y. Liang and K.-S. Leung, Two-way Mutation Evolution Strategies, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 789–794, IEEE Press, 2002.
- [137] H. Aguirre and K. Tanaka, Parallel Varying Mutation Genetic Algorithms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 795–800, IEEE Press, 2002.
- [138] L. Wenjian, C. Xianbin, and W. Xufa, An Immune Genetic Algorithm Based on Immune Regulation, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 801–806, IEEE Press, 2002.
- [139] S. Cayzer and U. Aickelin, A Recommender System based on the Immune Network, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 807–812, IEEE Press, 2002.
- [140] D. Bradley and A. Tyrrell, A Hardware Immune System for Benchmark State Machine Error Detection, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 813–818, IEEE Press, 2002.
- [141] C. A. C. Coello and N. C. Cortes, A Parallel Implementation of the Artificial Immune System to Handle Constraints in Genetic Algorithms: Preliminary Results, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 819–824, IEEE Press, 2002.
- [142] K. Deb, L. Thiele, M. Laumanns, and E. Zitzler, Scalable Multi-Objective Optimization Test Problems, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 825–830, IEEE Press, 2002.
- [143] H. A. Abbass, The Self-Adaptive Pareto Differential Evolution Algorithm, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 831–836, IEEE Press, 2002.
- [144] Z.-Y. Zhu and K.-S. Leung, Asynchronous Self-Adjustable Island Genetic Algorithm for Multi-Objective Optimization Problems, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 837–842, IEEE Press, 2002.

- [145] S. Mostaghim, J. Teich, and A. Tyagi, Comparison of Data Structures for Storing Pareto-sets in MOEAs, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 843–848, IEEE Press, 2002.
- [146] J. Brewster, R. G. Reynolds, and M. A. Brockmeyer, Not in My Backyard: A Simulation of the Effects of Agent Mobility on Environmental Poisoning, in *Proceedings of the 2002 Congress* on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 849–854, IEEE Press, 2002.
- [147] N. Rychtyckyj and R. G. Reynolds, Knowledge Base Maintenance Using Cultural Algorithms: Application to the DLMS Manufacturing Process System at Ford Motor Company, in *Proceedings* of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 855–860, IEEE Press, 2002.
- [148] R. G. Reynolds and A. Lazar, Simulating the Evolution of the Archaic States, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 861–866, IEEE Press, 2002.
- [149] S. Goodhall, R. G. Reynolds, and R. Whallon, Altruism, Selfishness, and Survival: An Agent-Based Model Of Sharing Behavior, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 867–871, IEEE Press, 2002.
- [150] Y.-C. Lin, K.-S. Hwang, and F.-S. Wang, Hybrid Differential Evolution with Multiplier Updating Method for Nonlinear Constrained Optimization Problems, in *Proceedings of the 2002 Congress* on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 872–877, IEEE Press, 2002.
- [151] B. G. W. Craenen and A. E. Eiben, An Experimental Comparison of SAWing EAs for a new Class of Random Binary CSPs, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 878–883, IEEE Press, 2002.
- [152] S. B. Hamida and M. Schoenauer, ASCHEA: New Results Using Adaptive Segregational Constraint Handling, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 884–889, IEEE Press, 2002.
- [153] X. Zou, L. Kang, and Y. Li, A Dynamical Evolutionary Algorithm For Constrained Optimization Problems, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 890–895, IEEE Press, 2002.
- [154] A. Kordon, G. Smits, E. Jordaan, and E. Rightor, Robust Soft Sensors Based On Integration of Genetic Programming, Analytical Neural Networks, and Support Vector Machines, in *Proceedings* of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 896–901, IEEE Press, 2002.
- [155] A. B. J. G.-H. J. M. M. J. B. J. Portillo, OCR Parameters Tuning by Means of Evolution Strategies for Aircraft's Tail Number Recognition, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 902–907, IEEE Press, 2002.
- [156] K. C. Tan, T. H. Lee, J. Cai, and Y. H. Chew, Automating the drug scheduling of cancer chemotherapy via evolutionary computation, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 908–913, IEEE Press, 2002.

- [157] T. Hatanaka, K. Uosaki, and M. Koga, Evolutionary Computation Approach to Wiener Model Identification, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 914–919, IEEE Press, 2002.
- [158] A. M. Costa, P. A. Vargas, F. J. Von Zuben, and P. M. Franca, Makespan Minimization on Parallel Processors: An Immune-Based Approach, in *Proceedings of the 2002 Congress* on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 920–925, IEEE Press, 2002.
- [159] A. B. Watkins and L. C. Boggess, A Resource Limited Artificial Immune Classifier, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 926–931, IEEE Press, 2002.
- [160] J. J. Cheh, A Heuristic Approach to Efficient Production of Detector Sets for An Artificial Immune Algorithm-Based Bankruptcy Prediction System, in *Proceedings of the 2002 Congress* on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 932–937, IEEE Press, 2002.
- [161] A. Tarakanov and V. Skormin, Pattern Recognition by Immunocomputing, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 938–943, IEEE Press, 2002.
- [162] H. Lu and G. Yen, Rank-Density Based Multiobjective Genetic Algorithm, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 944–949, IEEE Press, 2002.
- [163] H. Ishibushi, T. Yoshida, and T. Murata, Selection of Initial Solutions for Local Search in Multiobjective Genetic Local Search, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 950–955, IEEE Press, 2002.
- [164] M. Farina, A Neural Network Based Generalized Response Surface Multiobjective Evolutionary Algorithm, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 956–961, IEEE Press, 2002.
- [165] B. A. Kadrovach, J. B. Zydallis, and G. B. Lamont, Use of Mendelian Pressure in a Multi-Objective Genetic Algorithm, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 962–967, IEEE Press, 2002.
- [166] M. Shinkai, H. Aguirre, and K. Tanaka, Mutation Strategy Improves GA's Performance on Epistatic Problems, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 968–973, IEEE Press, 2002.
- [167] S. Tsutsui and D. E. Goldberg, Simplex Crossover and Linkage Identification: Single-Stage Evolution VS. Multi-Stage Evolution, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 974–979, IEEE Press, 2002.
- [168] D. Thierens, Adaptive mutation rate control schemes in genetic algorithms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 980–985, IEEE Press, 2002.

- [169] M. Lones and A. Tyrrell, Crossover and Bloat in the Functionality Model of Enzyme Genetic Programming, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 986–991, IEEE Press, 2002.
- [170] C. N. Bendtsen and T. Krink, Phone Routing using the Dynamic Memory Model, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 992–997, IEEE Press, 2002.
- [171] J. Xu, T. Arslan, and D. W. Qing-Wang, GPS Attitude Determination Using a Genetic Algorithm, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 998–1002, IEEE Press, 2002.
- [172] Y. Zhang, L. O. Hall, D. B. Goldgof, and S. Sarkar, A Constrained Genetic Approach for Reconstructing Young's Modulus of Elastic Objects from Boundary Displacement Measurements, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1003–1008, IEEE Press, 2002.
- [173] N. S. Majumdar and D. Dasgupta, Determining Optimal Configuration for Turbine Generator Cooler, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1009–1014, IEEE Press, 2002.
- [174] J. Kim and P. J. Bentley, Toward an Artificial Immune System for Network Intrusion Detection: An Investigation of Dynamic Clonal Selection, in *Proceedings of the 2002 Congress* on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1015–1020, IEEE Press, 2002.
- [175] R. Michelan and F. J. Von Zuben, Decentralized Control System for Autonomous Navigation Based on an Evolved Artificial Immune Network, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1021–1026, IEEE Press, 2002.
- [176] K. P. Anchor, P. D. Williams, G. H. Gunsch, and G. B. Lamont, The Computer Defense Immune System: Current and Future Research in Intrusion Detection, in *Proceedings of the 2002 Congress* on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1027–1032, IEEE Press, 2002.
- [177] S. P. N. Singh, S. M. Thayer, and W. P. Thayer, A Foundation for Kilorobotic Exploration, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1033–1038, IEEE Press, 2002.
- [178] D. Dasgupta and N. S. Majumdar, Anomaly Detection in Multidimensional Data using Negative Selection Algorithm, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1039–1044, IEEE Press, 2002.
- [179] J. Balthrop, S. Forrest, and M. R. Glickman, Revisting LISYS: Parameters and Normal Behavior, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1045–1050, IEEE Press, 2002.
- [180] C. A. C. Coello and M. S. Lechuga, MOPSO: A Proposal for Multiple Objective Particle Swarm Optimization, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1051–1056, IEEE Press, 2002.

- [181] A. P. Alves da Silva and P. J. Abrao, Applications of Evolutionary Computation in Electric Power Systems, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1057–1062, IEEE Press, 2002.
- [182] D. M. Falcao, Genetic Algorithms Applications in Electrical Distribution Systems, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1063–1068, IEEE Press, 2002.
- [183] K. Y. Lee and P. S. Mohamed, A Real-Coded Genetic Algorithm Involving a Hybrid Crossover Method for Power Plant Control System Design, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1069–1074, IEEE Press, 2002.
- [184] I. N. Kassabalidis, M. A. El-Sharkawi, and R. J. M. II, Border Identification for Power System Security Assessment Using Neural Network Inversion: An Overview, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1075–1079, IEEE Press, 2002.
- [185] V. Miranda and N. Fonseca, EPSO Best-of-Two Worlds Meta-Heuristic Applied to Power System Problems, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1080–1085, IEEE Press, 2002.
- [186] T. E. Revello and R. McCartney, Generating War Game Strategies Using A Genetic Algorithm, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1086–1091, IEEE Press, 2002.
- [187] S.-Y. Ho, S.-J. Ho, and Z.-B. Huang, An Evolutionary Approach for Pose Determination and Interpretation of Occluded Articulated Objects, in *Proceedings of the 2002 Congress* on *Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1092–1097, IEEE Press, 2002.
- [188] F. Rojas, C. G. Puntonet, I. Rojas, J. Ortega, and A. Prieto, Genetic Algorithm Approach to Nonlinear Blind Source Separation, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1098–1102, IEEE Press, 2002.
- [189] P. Collet, J. Louchet, and E. Lutton, Issues on the Optimisation of Evolutionary Algorithms Code, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1103–1108, IEEE Press, 2002.
- [190] P. Hingston, L. Barone, and L. While, Evolving Crushers, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1109–1114, IEEE Press, 2002.
- [191] D. H. Milone, J. J. Merelo, and H. L. Rufiner, Evolutionary Algorithm for Speech Segmentation, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1115–1120, IEEE Press, 2002.
- [192] Y. Qiao and X. WeiXin, A Network IDS with Low False Positive Rate, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1121–1126, IEEE Press, 2002.

- [193] E. J. Hughes, Multi-Objective Evolutionary Guidance for Swarms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1127–1132, IEEE Press, 2002.
- [194] F. Jimenez, A. F. Gomez-Skarmeta, G. Sanchez, and K. Deb, An Evolutionary Algorithm for Constrained Multi-objective Optimization, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1133–1138, IEEE Press, 2002.
- [195] K. H. Ang, G. Chong, and Y. Li, Preliminary Statement on the Current Progress of Multi-Objective Evolutionary Algorithm Performance Measurement, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1139–1144, IEEE Press, 2002.
- [196] N. Madavan, Multiobjective Optimization Using a Pareto Differential Evolution Approach, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1145— 1150, IEEE Press, 2002.
- [197] M. Basseur, F. Seynhaeve, and E. ghazali Talbi, Design of Multi-Objective Evolutionary Algorithms: Application to the Flow-Shop Scheduling Problem, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1151–1156, IEEE Press, 2002.
- [198] J. Lohn, W. F. Kraus, and G. L. Haith, Comparing a Coevolutionary Genetic Algorithm for Multiobjective Optimization, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1157–1162, IEEE Press, 2002.
- [199] A. K. Seth, Distinguishing Adaptive From Non-Adaptive Evolution Using Ashby's Law of Resuisite Variety, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1163–1168, IEEE Press, 2002.
- [200] B. A. Julstrom, A Scalable Genetic Algorithm for the Rectilinear Steiner Problem, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1169–1173, IEEE Press, 2002.
- [201] N. Sadati and S. Kuchakkhani, Genetic Approach to Pole Placement by Static Output Feedback, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1174–1179, IEEE Press, 2002.
- [202] M. Iwamatsu, Co-Evolutionary Global Optimization Algorithm, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1180–1184, IEEE Press, 2002.
- [203] P. Cowling, G. Kendall, and L. Han, An Investigation of a Hyperheuristic Genetic Algorithm Applied to a Trainer Scheduling Problem, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1185–1190, IEEE Press, 2002.
- [204] P. J. Darwen, Search Landscape of a Realistic Single-Machine Scheduling Task: Peaks with Big Differences, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1191–1196, IEEE Press, 2002.

- [205] E. K. Burke, P. De Causmaecker, S. Petrovic, and G. V. Berghe, A Multi Criteria Meta-heuristic Approach to Nurse Rostering, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1197–1202, IEEE Press, 2002.
- [206] J. Li and R. Kwan, A Fuzzy Evolutionary Approach with Taguchi Parameter Setting for the Set Covering Problem, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1203–1208, IEEE Press, 2002.
- [207] N. Nikolaev, L. M. de Menezes, and H. Iba, Overfitting Avoidance in Genetic Programming of Polynomials, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1209–1214, IEEE Press, 2002.
- [208] M. M. Fischer, A Novel Modular Product Unit Neural Network for Modelling Constrained Spatial Interaction Flows, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1215–1220, IEEE Press, 2002.
- [209] T. Endou and Q. Zhao, Generation of Comprehensible Decision Trees Through Evolution of Training Data, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1221–1225, IEEE Press, 2002.
- [210] C. Y. Ishida and A. T. R. Pozo, GPSQL Miner: SQL-Grammar Genetic Programming in Data Mining, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1226–1231, IEEE Press, 2002.
- [211] M. Minami, A. Tamamura, and T. Asakura, Machine Intelligence of a Mobile Manipulator to Utilize Dynamically Interfered Motion and Nonlinear Friction, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1232–1237, IEEE Press, 2002.
- [212] I. Sarafis, A. M. S. Zalzala, and P. Trinder, A Genetic Rule-Based Data Clustering Toolkit, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1238–1243, IEEE Press, 2002.
- [213] E. Avgerinos, A. M. S. Zalzala, and G. Zografos, Towards Evolutionary Optimisation for High Resolution Bathymetry from SideScan Sonars, in *Proceedings of the 2002 Congress* on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1244–1249, IEEE Press, 2002.
- [214] T. Burczynski, W. Kus, E. Majchrzak, P. Orantek, and M. Dziewonski, Evolutionary Computation in Identification of a Tumor, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1250–1254, IEEE Press, 2002.
- [215] F. Cupertino, D. Naso, L. Salvatore, and B. Turchiano, Design of Cascaded Controllers for DC Drives using Evolutionary Algorithms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1255–1260, IEEE Press, 2002.
- [216] M. Chrzanowska-Jeske, G. Greenwood, and B. Wang, Combining Evolution Strategies with Lagrangian Relaxation for Constructing Nonslicing VLSI Floorplans With Soft Modules, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1261– 1266, IEEE Press, 2002.

- [217] R. O. Canham and A. M. Tyrrell, Evolved Fault Tolerance in Evolvable Hardware, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1267–1271, IEEE Press, 2002.
- [218] K. C. Tan, C. M. Chew, K. K. Tan, L. F. Wang, and Y. J. Chen, Autonomous robot navigation via intrinsic evolution, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1272–1277, IEEE Press, 2002.
- [219] C. Wei, Z. He, Y. Zhang, and W. Pei, Swarm Directions Embedded in Fast Evolutionary Programming, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1278–1283, IEEE Press, 2002.
- [220] K. C. Tsui and J. Liu, Evolutionary Diffusion Optimization, Part II: Performance Assessment, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1284–1289, IEEE Press, 2002.
- [221] H.-K. Tsai, J.-M. Yang, and C.-Y. Kao, Solving Traveling Salesman Problems by Combining Global and Local Search Mechanisms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1290–1295, IEEE Press, 2002.
- [222] D. Ashlock, L. Guo, and F. Qiu, Greedy Closure Evolutionary Algorithms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1296–1301, IEEE Press, 2002.
- [223] K. C. Tan, A. Tay, T. H. Lee, and C. M. Heng, Mining multiple comprehensible classification rules using genetic programming, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1302–1307, IEEE Press, 2002.
- [224] H. Ghezelayagh and K. Y. Lee, Intelligent Predictive Control of A Power Plant with Evolutionary Programming Optimizer and Neuro-Fuzzy Identifier, in *Proceedings of the 2002 Congress* on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1308–1313, IEEE Press, 2002.
- [225] M. L. Wong, S. Y. Lee, and K. S. Leung, A Hybrid Approach to Learn Bayesian Networks Using Evolutionary Programming, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1314–1319, IEEE Press, 2002.
- [226] X. Xu, H. gen He, and D. Hu, Evolutionary Adaptive-Critic Methods for Reinforcement Learning, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1320–1325, IEEE Press, 2002.
- [227] N. X. Hoai, R. I. McKay, D. Essam, and R. Chau, Solving the Symbolic Regression Problem with Tree-Adjunct Grammar Guided Genetic Programming: The Comparative Results, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1326–1331, IEEE Press, 2002.
- [228] M. Munetomo, Linkage Identification Based on Epistasis Measures to Realize Efficient Genetic Algorithms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1332–1337, IEEE Press, 2002.

- [229] S. Das, Gene Spill: An Evolutionary Algorithm Based on Bacterial Gene Exchange, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1338–1342, IEEE Press, 2002.
- [230] K. Yamamoto, T. Yoshikawa, T. Furuhashi, T. Shinogi, and S. Tsuruoka, Evaluation of Search Performance of Bacterial Evolutionary Algorithm, in *Proceedings of the 2002 Congress* on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1343–1347, IEEE Press, 2002.
- [231] T. Smith, A. Philippides, P. Husbands, and M. O'Shea, Neutrality and ruggedness in robot landscapes, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1348–1353, IEEE Press, 2002.
- [232] M. Toussaint and C. Igel, Neutrality: A necessity for self-adaptation, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1354–1359, IEEE Press, 2002.
- [233] R. Shipman, M. Shackleton, and M. Ebner, Issues in Designing a Neutral Genotype-Phenotype Mapping, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1360–1365, IEEE Press, 2002.
- [234] W. Cyre, Learning Grammars with a Modified Classifier System, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1366–1371, IEEE Press, 2002.
- [235] R. K. Ursem and T. Krink, Genetic Programming with Smooth Operators for Arithmetic Expressions: Diviplication and Subdition, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1372–1377, IEEE Press, 2002.
- [236] S.-Y. H. S.-J. Ho. and T.-K. Chen, Design of High Performance Fuzzy Controllers Using Flexible Parameterized Membership Functions and Intelligent Genetic Algorithms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1378–1383, IEEE Press, 2002.
- [237] M. R. Delgado, F. Von Zuben, and F. Gomide, Coevolutionary Design of Takagi-Sugeno Fuzzy Systems, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1384–1389, IEEE Press, 2002.
- [238] R. Santana and H. Muehlenbein, Blocked Stochastic Sampling versus Estimation of Distribution Algorithms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1390–1395, IEEE Press, 2002.
- [239] D.-Y. Cho and B.-T. Zhang, Evolutionary Optimization by Distribution Estimation with Mixtures of Factor Analyzers, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1396–1401, IEEE Press, 2002.
- [240] Y. Katsumata, S. Kurahashi, and T. Terano, We Need Multiple Solutions for Electric Equipments Configuration in a Power Plant - Applying Bayesian Optimization Algorithm with Tabu Search, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1402–1407, IEEE Press, 2002.

- [241] J. E. Davis and G. Kendall, An Investigation, using Co-Evolution, to Evolve an Awari Player, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1408–1413, IEEE Press, 2002.
- [242] R. Subbu and A. C. Sanderson, Network Performance of Distributed Coevolutionary Agents, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1414–1419, IEEE Press, 2002.
- [243] J. Cartlidge and S. Bullock, Learning lessons from the common cold: How reducing parasite virulence improves coevolutionary optimization, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1420–1425, IEEE Press, 2002.
- [244] D. D. B. van Bragt and J. A. La Poutre, Co-evolving Automata Negotiate with a Variety of Opponents, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1426–1431, IEEE Press, 2002.
- [245] T. Satoh, H. Kuwabara, Masakazu, Kanezashi, and K. Nara, Artificial Life System and its Application to Multiple-Fuel Economic Load Dispatch Problem, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1432–1437, IEEE Press, 2002.
- [246] S. Liang, A. N. Zincir-Heywood, and M. I. Heywood, The Effect of Routing under Local Information using a Social Insect Metaphor, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1438–1443, IEEE Press, 2002.
- [247] L. Schoofs and B. Naudts, Swarm Intelligence on the Binary Constraint Satisfaction problem, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1444–1449, IEEE Press, 2002.
- [248] J. Isaacs, R. Watkins, and S. Foo, Evolving Ant Colony Systems in Hardware for Random Number Generation, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1450–1455, IEEE Press, 2002.
- [249] X. Xie, W. Zhang, and Z. Yang, A Dissipative Particle Swarm Optimization, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1456–1461, IEEE Press, 2002.
- [250] T. Blackwell and P. J. Bentley, Improvised Music with Swarms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1462–1467, IEEE Press, 2002.
- [251] J. Lampinen, A Constraint Handling Approach for the Differential Evolution Algorithm, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1468– 1473, IEEE Press, 2002.
- [252] T. Krink, J. S. Vesterstrøm, and J. Riget, Particle Swarm Optimisation with Spatial Particle Extension, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1474–1479, IEEE Press, 2002.

- [253] J. H. Koo, T. S. Kim, S. S. Dong, and C. H. Lee, Development of FPGA Based Adaptive Image Enhancement Filter System Using Genetic Algorithms, in *Proceedings of the 2002 Congress* on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1480–1485, IEEE Press, 2002.
- [254] F. Corno, G. Cumani, M. S. Reorda, and G. Squillero, Efficent Machine-Code Test-Program Induction, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1486–1491, IEEE Press, 2002.
- [255] N. Homma, T. Aoki, and T. Higuchi, Graph-Based Individual Representation for Evolutionary Synthesis of Arithmetic Circuits, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1492–1497, IEEE Press, 2002.
- [256] R. Salomon, The Force Model: Reducing the Complexity by Reformulating the Problem, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1498– 1503, IEEE Press, 2002.
- [257] K. Boonlong, N. Chaiyaratana, and S. Kuntanapreeda, Using A Co-Operative Co-Evolutionary Genetic Algorithm to Solve Optimal Control Problems in a Hysteresis System, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1504–1509, IEEE Press, 2002.
- [258] H. Bersini, And the winner is not the fittest, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1510–1515, IEEE Press, 2002.
- [259] B. Yuan, Deterministic Crowding, Recombination And Self-Similarity, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1516–1521, IEEE Press, 2002.
- [260] Y. Murakami, H. Sato, and A. Namatame, Realizing Unstable Social Efficiency with Mutual Learning of Meta-Rules, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1522–1527, IEEE Press, 2002.
- [261] O. Wittner and B. E. Helvik, Cross Entropy Guided Ant-like Agents Finding Dependable Primary/Backup Path Patterns in Networks, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1528–1533, IEEE Press, 2002.
- [262] R. Bjarnason and T. Peterson, Multi-agent Learning via Implicit Opponent Modeling, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1534– 1539, IEEE Press, 2002.
- [263] M. Jelasity, M. Preuss, and B. Paechter, A Scalable and Robust Framework for Distributed Applications, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1540–1545, IEEE Press, 2002.
- [264] A. Watkins and L. Boggess, A New Classifier Based on Resource Limited Artificial Immune Systems, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1546–1551, IEEE Press, 2002.

- [265] S. Ando and H. Iba, Ant Algorithm for Construction of Evolutionary Tree, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1552–1557, IEEE Press, 2002.
- [266] C. Blum and M. Sampels, Ant Colony Optimization for FOP Shop Scheduling: A case study on different pheromone representations, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1558–1563, IEEE Press, 2002.
- [267] M. Schreyer and G. R. Raidl, Letting Ants Labeling Point Features, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1564–1569, IEEE Press, 2002.
- [268] J. S. Vesterstrøm, J. Riget, and T. Krink, Division of Labor in Particle Swarm Optimisation, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1570–1575, IEEE Press, 2002.
- [269] E. C. Laskari, K. E. Parsopoulos, and M. N. Vrahatis, Particle Swarm Optimization for Minimax Problems, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1576–1581, IEEE Press, 2002.
- [270] E. C. Laskari, K. E. Parsopoulos, and M. N. Vrahatis, Particle Swarm Optimization for Integer Programming, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1582–1587, IEEE Press, 2002.
- [271] M. Løvbjerg and T. Krink, Extending Particle Swarm Optimisers with Self-Organized Criticality, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1588–1593, IEEE Press, 2002.
- [272] D. Harris and S. Bullock, Enhancing game theory with coevolutionary simulation models of honest signaling, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1594–1599, IEEE Press, 2002.
- [273] R. P. Wiegand, W. Liles, and K. De Jong, Analyzing Cooperative Coevolution with Evolutionary Game Theory, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1600–1605, IEEE Press, 2002.
- [274] T. Ord and A. Blair, Exploitation and peacekeeping: introducing more sophisticated interactions to the iterated prisoner's dilemma, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1606–1611, IEEE Press, 2002.
- [275] H. Murao, H. Tamaki, and S. Kitamura, A Coevolutionary Approach To Adapt The Genotype-Pheonotype Map In Genetic Algorithms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1612–1617, IEEE Press, 2002.
- [276] K. Anchor, G. Lamont, and G. Gunsch, An Evolutionary Programming Approach for Detecting Novel Computer Network Attacks, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1618–1623, IEEE Press, 2002.

- [277] C.-H. Chu, J. Gu, X. D. Hou, and Q. Gu, A Heuristic Ant Algorithm for Solving QoS Multicast Routing Problem, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1630–1635, IEEE Press, 2002.
- [278] C.-F. Tsai, C.-W. Tsai, and C.-C. Tseng, A New Approach for Solving Large Traveling Salesman Problem, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1636–1641, IEEE Press, 2002.
- [279] J. A. Khan, S. M. Sait, and M. R. Minhas, Fuzzy Biasless Simulated Evolution for Multiobjective VLSI Placement, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1642–1647, IEEE Press, 2002.
- [280] H. Lu and G. G. Yen, Dynamic Population Size in Multiobjective Evolutionary Algorithm, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1648–1653, IEEE Press, 2002.
- [281] H. A. Abbass, N. X. Hoai, and R. I. McKay, AntTAG: A New Method to Compose Computer Programs Using Colonies of Ants, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1654–1659, IEEE Press, 2002.
- [282] J. T. Yang, H.-D. Huang, and J.-T. Horng, Devising A Cost Effective Baseball Scheduling by Evolutionary Algorithms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1660–1665, IEEE Press, 2002.
- [283] X. Hu and R. Eberhart, Adaptive Particle Swarm Optimization: Detection and Response to Dynamic Systems, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1666–1670, IEEE Press, 2002.
- [284] J. Kennedy and R. Mendes, Population Structure and Particle Swarm Performance, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1671– 1676, IEEE Press, 2002.
- [285] X. Hu and R. Eberhart, Multiobjective Optimization Using Dynamic Neighborhood Particle Swarm Optimization, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1677–1681, IEEE Press, 2002.
- [286] Y. Shi and R. A. Krohling, Co-evolutionary Particle Swarm Optimization to Solve min-max Problems, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1682–1687, IEEE Press, 2002.
- [287] R. A. Krohling, H. Knidel, and Y. Shi, Solving Numerical Equations of Hydraulic Problems Using Particle Swarm Optimization, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1688–1690, IEEE Press, 2002.
- [288] T. Blackwell and P. J. Bentley, Don't Push Me! Collision-Avoiding Swarms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1691–1696, IEEE Press, 2002.

- [289] J. Vincent, A Comparison of Reproductive Success and the Effect of Mating Restrictions in Coarse-Grained Parallel Genetic Algorithms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1697–1702, IEEE Press, 2002.
- [290] K. S. Leung, K. H. Lee, and S. M. Cheang, Evolving Parallel Machine Programs for a Multi-ALU Processor, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1703–1708, IEEE Press, 2002.
- [291] X. Li and M. Kirley, The Effects of Varying Population Density in a Fine-grained Parallel Genetic Algorithm, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1709–1714, IEEE Press, 2002.
- [292] K. Kojima, H. Matsuo, and M. Ishigame, Reduction of Communication Quantity for Network Based Parallel GA, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1715–1720, IEEE Press, 2002.
- [293] A. Hamilton-Wright and D. Stacey, Fault-Tolerant Network Computation of Individuals in Genetic Algorithms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1721–1726, IEEE Press, 2002.
- [294] G. Galeano, F. Fernandez, M. Tomassini, and L. Vanneschi, Studying the influence of Synchronous and Asynchronous parallel GP on Programs' Length Evolution, in *Proceedings* of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1727–1732, IEEE Press, 2002.
- [295] J. A. Joines and M. G. Kay, Hybrid Genetic Algorithms and Random Linkage, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1733–1738, IEEE Press, 2002.
- [296] R. Zhang, W. K. King, and Q. Wang, Applying Evolutionary Programming to Improve Branch Classification In the Hybrid Branch Prediction Method Using Switch-Counter, in *Proceedings* of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1739–1744, IEEE Press, 2002.
- [297] M. Chang, K. Ohkura, K. Ueda, and M. Sugiyama, A symbiotic evolutionay algorithm for dynamic facility layout problem, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1745–1750, IEEE Press, 2002.
- [298] D. Srinivasan, T. H. Seow, and J. X. Xu, Automated Time Table Generation Using Multiple Context Reasoning for University Modules, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1751–1756, IEEE Press, 2002.
- [299] K. O. Stanley and R. Miikkulainen, Efficient Evolution of Neural Network Topologies, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1757– 1762, IEEE Press, 2002.
- [300] Y. Wang and Y. Lu, The Fast Neural Network Solution for Problems Based on Slow Genetic Algorithm Solutions, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1763–1768, IEEE Press, 2002.

- [301] D. C. Edwards, K. E. Brown, and N. K. Taylor, An Evolutionary Method for the Design of Generic Neural Networks, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1769–1774, IEEE Press, 2002.
- [302] D. Weingaertner, V. K. Tatai, R. R. Gudwin, and F. J. V. Zuben, Hierarchical Evolution of Heterogeneous Neural Networks, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1775–1780, IEEE Press, 2002.
- [303] T. Kovacs, Performance and Population State Metrics for Rule-based Learning Systems, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1781– 1786, IEEE Press, 2002.
- [304] A. Aizawa, A Co-evolutionary Framework for Clustering in Information Retrieval Systems, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1787– 1792, IEEE Press, 2002.
- [305] C.-Y. Lee and E. K. Antonsson, Reinforcement Learning in Steady-State Cellular Genetic Algorithms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1793–1797, IEEE Press, 2002.
- [306] L. M. Hercog and T. C. Fogarty, Co-evolutionary Classifier Systems for Multi-Agent Simulation, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1798–1803, IEEE Press, 2002.
- [307] Y. Y. Wai, C. K. Chow, and T. Lee, Resolving Ambiguity in Depth Extraction for Motion Capture using Genetic Algorithm, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1804–1809, IEEE Press, 2002.
- [308] M. J. Kaiser, K. C. Tsui, and J. Liu, Adaptive Distributed Caching, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1810–1815, IEEE Press, 2002.
- [309] S. Chavali, A. Pahwa, and S. Das, A Genetic Algorithm Approach for Optimal Distribution Feeder Restoration During Cold Load Pickup, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1816–1819, IEEE Press, 2002.
- [310] I. E. Golovkin, S. J. Louis, and R. C. Mancini, Parallel Implementation of Niched Pareto Genetic Algorithm Code for X-ray Plasma Spectroscopy, in *Proceedings of the 2002 Congress* on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1820–1824, IEEE Press, 2002.
- [311] B. Aktan, G. Greenwood, and M. Shor, Improving Evolutionary Algorithm Performance on Maximizing Functional Test Coverage of ASICs Using Adaptation of the Fitness Criteria, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1825— 1829, IEEE Press, 2002.
- [312] A. Stoica, R. Zebulum, D. Keymeulen, M. I. Ferguson, and V. Duong, Fuzzy controller implementations with fewer than ten transistors?, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1830–1835, IEEE Press, 2002.

- [313] J. Bird and P. Layzell, The Evolved Radio and its Implications for Modelling the Evolution of Novel Sensors, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1836–1841, IEEE Press, 2002.
- [314] R. H. Mazza, III and C. B. Congdon, Towards a Genetic Algorithms Approach to Designing 3D Polygonal Tree Models, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1842–1847, IEEE Press, 2002.
- [315] Y. Matsumura, K. Ohkura, and K. Ueda, Advantages of Global Discrete Recombination in (mu, mu, lambda) Evolution Strategies, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1848–1853, IEEE Press, 2002.
- [316] O. Monakhov and E. Monakhova, Using Evolutionary Algorithm for Generation of Dense Families of Circulant Networks, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1854–1859, IEEE Press, 2002.
- [317] J.-X. Xu, S. K. Panda, and Q. Zheng, Multiobjective Optimization of Current Waveforms for Switched Reluctance Motors by Genetic Algorithm, in *Proceedings of the 2002 Congress* on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1860–1865, IEEE Press, 2002.
- [318] X. Wu, C.-H. Chu, Y. Wang, and W. Yan, A Genetic Algorithm for Integrated Cell Formation and Layout Decision, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1866–1871, IEEE Press, 2002.
- [319] J. C. Bongard, Evolving Modular Genetic Regulatory Networks, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1872–1877, IEEE Press, 2002.
- [320] P. R. W. Harvey, D. M. Booth, and J. F. Boyce, Evolving The Mapping between input Neurons and Multi-Source Imagery, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1878–1883, IEEE Press, 2002.
- [321] B. Verma and R. Ghosh, A Novel Evolutionary Neural Learning Algorithm, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1884–1889, IEEE Press, 2002.
- [322] X. Fu and L. Wang, A GA-Based Novel RBF Classifier with Class-Dependent Features, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1890– 1894, IEEE Press, 2002.
- [323] G. G. Yen and N. Nithianandan, Facial Feature Extraction Using Genetic Algorithm, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1895— 1900, IEEE Press, 2002.
- [324] B. Blaha and D. Wunsch, Evolutionary Programming to Optimize an Assembly Program, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1901– 1903, IEEE Press, 2002.

- [325] T. Beielstein, J. Dienstuhl, C. Feist, and M. Pompl, Circuit Design Using Evolutionary Algorithms, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1904–1909, IEEE Press, 2002.
- [326] R. Hoar, J. Penner, and C. Jacob, Evolutionary Swarm Traffic: If Ant Roads Had Traffic Lights, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1910–1915, IEEE Press, 2002.
- [327] X. Fu and L. Wang, Rule Extraction from an RBF Classifier Based on Class-Dependent Features, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1916–1921, IEEE Press, 2002.
- [328] P. Mordaunt and A. Zalzala, Towards an Evolutionary Neural Network For Gait Analysis, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1922–1927, IEEE Press, 2002.
- [329] S. H. Ling, H. K. Lam, F. H. F. Leung, and P. K. S. Tam, Learning of Neural Network Parameters using a Fuzzy Genetic Algorithm, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1928–1933, IEEE Press, 2002.
- [330] O. Ciftcioglu, GA with Orthogonal Transformation for RBFN Configuration, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1934–1939, IEEE Press, 2002.
- [331] K.-H. Lee, C.-H. Lee, J.-H. Kim, H.-L. Choi, and M.-J. Tahk, Evolutionary Optimized Pitching Motion Control for F-16 Aircraft, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1940–1945, IEEE Press, 2002.
- [332] C. K. Chan, H. B. Gooi, and M. H. Lim, A Co-evolutionary Algorithm approach to a University Timetable System, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1946–1951, IEEE Press, 2002.
- [333] S. Lucas, Evolving spring-mass models: a test-bed for graph encoding schemes, in *Proceedings* of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1952–1957, IEEE Press, 2002.
- [334] R. Torres-Velazquez and V. Estivill-Castro, A Memetic Algorithm Instantiated with Selection Sort Consistently Finds Global Optima for the Error-Correcting Graph Isomorphism, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1958– 1963, IEEE Press, 2002.
- [335] S.-J. Kim, J.-S. Kim, J.-Y. Seo, H.-C. Cho, and H.-T. Jeon, Optimal Initial Structure of the RBF Networks Using Time-Frequency Localization and Genetic Algorithm, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1964–1969, IEEE Press, 2002.
- [336] E. Tuci, M. Quinn, and I. Harvey, Evolving fixed-weight networks for learning robots, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1970– 1975, IEEE Press, 2002.

- [337] S. Oeda, T. Ichimura, and T. Yamashita, Biological immune system by evolutionary adaptive learning of neural networks, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1976–1981, IEEE Press, 2002.
- [338] Y. Ding and L. Ren, A New DNA-Based Evolutionary Algorithm with Application to the Design of Fuzzy Controllers, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1982–1987, IEEE Press, 2002.
- [339] D. Taylor, D. Corne, D. Taylor, and J. Harkness, Predicting Alarms in Supermarket Refrigeration Systems Using Evolved Neural Networks and Evolved Rulesets, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1988–1993, IEEE Press, 2002.
- [340] L. Xin, P. Vadakkepat, T. H. Lee, X. Peng, and P. K. Kim, Comparison of Robot Navigation by Evolutionary Neural Networks and Pain-based Algorithm, in *Proceedings of the 2002 Congress* on *Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 1994–1999, IEEE Press, 2002.
- [341] R. K. H. Galvao, V. M. Becerra, and M. Abou-Seada, Variable Selection for Financial Distress Classification Using a Genetic Algorithm, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 2000–2005, IEEE Press, 2002.
- [342] N. Svangard, S. Lloyd, P. Nordin, and C. Wihlborg, Evolving Short-Term Trading Strategies Using Genetic Programming, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 2006–2010, IEEE Press, 2002.
- [343] T. Hamada, H. Kawamura, M. Yamamoto, and A. Ohuchi, A Study on Behavioral Structure of Artificial Market Based on Adaptive Game, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 2011–2016, IEEE Press, 2002.
- [344] K. Yamasaki, K. Kitakaze, and M. Sekiguchi, Dynamic Optimization by Evolutionary Algorithms Applied to Financial Time Series, in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 2017–2022, IEEE Press, 2002.
- [345] T. Minerva and S. Paterlini, Evolutionary Approaches for Statistical Modelling, in *Proceedings* of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 2023–2028, IEEE Press, 2002.
- [346] D. Cliff, Evolution of Market Mechanism through a Continuous Space of Auction-Types, in Proceedings of the 2002 Congress on Evolutionary Computation CEC2002, edited by D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, pages 2029– 2034, IEEE Press, 2002.