

## Список литературы

- [1] Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M, eds. (2002) *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002* (IEEE Press).
- [2] Meade, A, Corne, D, & Sibly, R. (2002) *Discovering Patterns in Microsatellite Flanks with Evolutionary Computation by Evolving Discriminatory DNA Motifs* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1–6.
- [3] Anastasoff, S. J. (2002) *The Presence of Old Alus in GC-Rich Regions of the Human Genome - A Genetic Algorithm Perspective* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 7–12.
- [4] Ashlock, D, Wittrock, A, & Wen, T.-J. (2002) *Training Finite State Machines to Improve PCR Primer Design* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 13–18.
- [5] Matsumaru, N, Colombano, S, & Zauner, K.-P. (2002) *Scouting Enzyme Behavior* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 19–24.
- [6] Yen, G. G & Lu, H. (2002) *Hierarchical Rank Density Genetic Algorithm for Radial-Basis Function Neural Network Design* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 25–30.
- [7] Tan, K. C, Sengupta, K, Lee, T. H, & Sathikannan, R. (2002) *Autonomous Registration of Disparate Spatial Data Via an Evolutionary Algorithm Toolbox* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 31–36.
- [8] Thomson, R & Arslan, T. (2002) *An Evolutionary Algorithm for the Multi-objective Optimisation of VLSI Primitive Operator Filters* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 37–42.
- [9] Gan, J & Warwick, K. (2002) *Modelling Niches of Arbitrary Shape in Genetic Algorithms using Niche Linkage in the Dynamic Niche Clustering Framework* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 43–48.
- [10] Hu, J & Goodman, E. D. (2002) *The Hierarchical Fair Competition (HFC) Model for Parallel Evolutionary Algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 49–54.
- [11] Droste, S. (2002) *Analysis of the (1+1) EA for a Dynamically Changing OneMax-Variant* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 55–60.
- [12] Deb, K, Joshi, D, & Anand, A. (2002) *Real-Coded Evolutionary Algorithms with Parent-Centric Recombination* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 61–66.
- [13] Ciesielski, V & Mawhinney, D. (2002) *Prevention of Early Convergence in Genetic Programming by Replacement of Similar Programs* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 67–72.
- [14] Tanaka, F, Nakatsugawa, M, Yamamoto, M, Shiba, T, & Ohuchi, A. (2002) *Towards a General-Purpose Sequence Design System in DNA Computing* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 73–78.
- [15] Shin, S.-Y, Kim, D.-M, Lee, I.-H, & Zhang, B.-T. (2002) *Evolutionary Sequence Generation for Reliable DNA Computing* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 79–84.

- [16] Yamamoto, M, Kameda, A, Matsuura, N, Shiba, T, & Ohuchi, A. (2002) *Simulation Analysis of Hybridization Process for DNA Computing with Concentration Control* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 85–90.
- [17] Nakatsugawa, M, Yamamoto, M, Shiba, T, & Ohuchi, A. (2002) *Design of a PCR Protocol for Improving Reliability of PCR in DNA Computing* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 91–96.
- [18] Costa, L & Oliveira, P. (2002) *An Evolution Strategy for Multiobjective Optimization* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 97–102.
- [19] Caswell, D. J & Lamont, G. B. (2002) *Wire-Antenna Geometry Design with Multiobjective Genetic Algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 103–108.
- [20] Socha, K & Kisiel-Dorohinicki, M. (2002) *Agent-based Evolutionary Multiobjective Optimisation* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 109–114.
- [21] Pullan, W. (2002) *Optimising Multiple Aspects of Network Survivability* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 115–120.
- [22] Thomsen, R, Fogel, G. B, & Krink, T. (2002) *A Clustal Alignment Improver Using Evolutionary Algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 121–126.
- [23] Day, R. O, Zydallis, J. B, Lamont, G, & Pachter, R. (2002) *Analysis of Fine Granularity and Building Block Sizes in the Parallel Fast Messy GA* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 127–132.
- [24] Rowland, J. J & Taylor, J. (2002) *Adaptive Denoising in Spectral Analysis by Genetic Programming* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 133–138.
- [25] Volkert, L. G. (2002) *Levels of Adaptation: Insights into Survival in Dynamic Environments* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 139–144.
- [26] Bendtsen, C. N & Krink, T. (2002) *Dynamic Memory Model for Non-Stationary Optimization* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 145–150.
- [27] Mueller, S. D, Schraudolph, N. N, & Koumoutsakos, P. D. (2002) *Step Size Adaptation in Evolution Strategies using Reinforcement Learning* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 151–156.
- [28] Wiles, J & Tonkes, B. (2002) *Visualisation of Hierarchical Cost Surfaces for Evolutionary Computing* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 157–162.
- [29] Lee, S.-I & Cho, S.-B. (2002) *Measuring Evolvability in Evolutionary Robotics* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 163–168.
- [30] Tsui, K. C & Liu, J. (2002) *Evolutionary Diffusion Optimization, Part I: Description of the Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 169–174.

- [31] Madureira, A, Ramos, C, & do Carmo Silva, S. (2002) *A Coordination Mechanism for Real World Scheduling Problems Using Genetic Algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 175–180.
- [32] Kacprzyk, J & Szkatula, G. (2002) *An Integer Programming Approach to Inductive Learning Using Genetic Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 181–186.
- [33] Land, Jr., W. H, Bryden, M, McKee, D. W, Lo, J. Y, & Anderson, F. R. (2002) *Performance Tradeoff Between Evolutionary Computation (EC)/Adaptive Boosting (AB) Hybrid and Support Vector Machine Breast Cancer Classification Paradigms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 187–192.
- [34] Watts, M, Major, L, & Tate, W. (2002) *Evolutionary Optimisation of MLP for Modeling Protein Synthesis Termination Signal Efficiency* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 193–198.
- [35] Landavazo, D & Fogel, G. B. (2002) *Evolved Neural Networks for Quantitative Structure-Activity Relationships of Anti-HIV Compounds* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 199–204.
- [36] Geard, N, Wiles, J, Hallinan, J, Tonkes, B, & Skellett, B. (2002) *A Comparison of Neutral Landscapes - NK, NKp and NKq* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 205–210.
- [37] Geard, N & Wiles, J. (2002) *Diversity Maintenance on Neutral Landscapes - An Argument for Recombination* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 211–213.
- [38] Wright, A. H, Rowe, J. E, & Neil, J. R. (2002) *Analysis of the Simple Genetic Algorithm on the Single-peak and Double-peak Landscapes* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 214–219.
- [39] Jeong, H.-K & Oh, S.-Y. (2002) *Evolutionary Programming Integrating 3-Generation Based Mutation and Local Competition Based Selection* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 220–224.
- [40] Lindblad, F, Nordin, P, & Wolff, K. (2002) *Evolving 3D model interpretation of images using graphics hardware* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 225–230.
- [41] De Falco, I, Cioppa, A. D, & Tarantino, E. (2002) *Unsupervised Spectral Pattern Recognition for Multispectral Images by means of a Genetic Programming approach* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 231–236.
- [42] Yuizono, T, Wang, Y, Satoh, K, & Nakayama, S. (2002) *Study on Individual Recognition for Ear Images by using Genetic Local Search* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 237–242.
- [43] Song, A, Ciesielski, V, & Williams, H. (2002) *Texture Classifiers Generated by Genetic Programming* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 243–248.
- [44] Clergue, M & Collard, P. (2002) *GA-Hard Functions Built by Combination of Trap Functions* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 249–254.
- [45] Mahnig, T & Muehlenbein, H. (2002) *A Comparison of Stochastic Local Search and Population Based Search* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 255–260.

- [46] Kim, N. G, Won, J. M, Lee, J. S, & Kim, S. W. (2002) *Local Convergence Rate of Evolutionary Algorithm with Combined Mutation Operator* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 261–266.
- [47] Iwashita, M & Iba, H. (2002) *Island Model GP with Immigrants Aging and Depth-Dependent Crossover* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 267–272.
- [48] Daida, J. M. (2002) *Limits to Expression in Genetic Programming: Lattice-Aggregate Modeling* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 273–278.
- [49] Runarsson, T. P & Yao, X. (2002) *Continuous Selection and Self-Adaptive Evolution Strategies* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 279–284.
- [50] Yasunaga, M, Ushiyama, K, Fujiwara, H, Yoshihara, I, Kim, J. H, & Aibe, N. (2002) *An Evolutionary Kernel-Based Reasoning System Using Reconfigurable VLSIs: Its Hardware Prototyping and Application to the Splicing Boundary Problem* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 285–290.
- [51] Ando, S, Iba, H, & Sakamoto, E. (2002) *Modeling Genetic Network by Hybrid GP* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 291–296.
- [52] Liu, J & Iba, H. (2002) *Selecting Informative Genes Using a Multiobjective Evolutionary Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 297–302.
- [53] Ono, I, Fujiki, H, Ootsuka, M, Nakashima, N, Ono, N, & Tate, S. (2002) *Global Optimization of Protein 3-Dimensional Structures in NMR by a Genetic Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 303–308.
- [54] Nguyen, H. D, Yoshihara, I, Yamamori, K, & Yasunaga, M. (2002) *A Parallel Hybrid Genetic Algorithm for Multiple Protein Sequence Alignment* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 309–314.
- [55] Chiba, S & Sugawara, K. (2002) *Estimation of Protein Function with an Evolutionary Dictionary* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 315–320.
- [56] Mabu, S, Hirasawa, K, Hu, J, & Murata, J. (2002) *Online learning of Genetic Network Programming (GNP)* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 321–326.
- [57] Etzel, J. A. (2002) *"Marigolds:"An Evolutionary Algorithm Simulation* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 327–332.
- [58] Jonker, C. M, de Kock, A. P. G, Meijer, J, & Vermeulen, B. J. (2002) *Deliberate Evolution Agents: Comparing Reproduction Strategies* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 333–338.
- [59] Hsieh, F.-S. (2002) *Design of Evolvable Manufacturing Processes* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 339–344.
- [60] Cambier, C, Piron, M, & Cardon, A. (2002) *Self-adaptive systems using a Massive Multi-agent system* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 345–350.
- [61] Al-Yamani, A, Sait, S. M, & Barada, H. R. (2002) *HPTS: Heterogeneous Parallel Tabu Search for VLSI Placement* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 351–355.

- [62] Khoo, K. G & Suganthan, P. N. (2002) *Objective Function Decomposition within Genetic Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 356–359.
- [63] Sano, Y & Kita, H. (2002) *Optimization of Noisy Fitness Functions by means of Genetic Algorithms using History of Search with Test of Estimation* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 360–365.
- [64] Cutello, V, Mastriani, E, & Pappalardo, F. (2002) *An evolutionary algorithm for the T-constrained variation of Minimum Hitting Set Problem* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 366–371.
- [65] Sait, S. M, Minhas, M. R, & Khan, J. A. (2002) *Performance and Low Power Driven VLSI Standard Cell Placement using Tabu Search* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 372–377.
- [66] Oh, S.-K, Lee, C.-Y, & Lee, J.-J. (2002) *A New Distributed Evolutionary Algorithm for Optimization in Nonstationary Environments* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 378–383.
- [67] Liang, Y.-C, Kulturel-Konak, S, & Smith, A. E. (2002) *Meta Heuristics for the Orienteering Problem* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 384–389.
- [68] Rasheed, K, Ni, X, & Vattam, S. (2002) *Comparison of Methods for Developing Dynamic Reduced Models for Design Optimization* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 390–395.
- [69] Greer, B, Hakonen, H, Lahdelma, R, & Miikkulainen, R. (2002) *Numerical Optimization with Neuroevolution* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 396–401.
- [70] Cincotti, A, Cutello, V, & Pavone, M. (2002) *Graph Partitioning with Genetic Algorithms using ODPX* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 402–406.
- [71] Kim, K. J & Cho, S.-B. (2002) *Evolving Speciated Checkers Players with Crowding Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 407–412.
- [72] Sofge, D, De Jong, K, & Schultz, A. (2002) *A Blended Population Approach to Cooperative Coevolution for Decomposition of Complex Problems* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 413–418.
- [73] Ray, T. (2002) *Constrained Robust Optimal Design using a Multiobjective Evolutionary Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 419–424.
- [74] Kumar, R, Parida, P. P, & Gupta, M. (2002) *Topological Design of Communication Networks using Multiobjective Genetic Optimization* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 425–430.
- [75] Bahuman, A, Rasheed, K, & Bishop, B. (2002) *An Evolutionary Approach for VLSI Standard Cell Design* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 431–436.
- [76] sung Hwang, K & bae Cho, S. (2002) *Evolving Diverse Hardwares Using Speciated Genetic Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 437–442.
- [77] Hsu, C.-C, Wang, W.-Y, & Yu, C.-Y. (2002) *Genetic Algorithms-Derived Digital Integrators and Their Applications in Discretization of Continuous Systems* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 443–448.

- [78] Ho, C. K, Singh, Y. P, & Lee, S. W. (2002) *Enhancement Of A Genetic Algorithm For Optical Orthogonal Code Design Using Simulated Annealing* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 449–453.
- [79] de Garis, H. (2002) *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* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 454–459.
- [80] Lee, J.-H & Cho, S.-B. (2002) *Analysis of Direct Manipulation in Interactive Evolutionary Computation on Fitness Landscape* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 460–465.
- [81] Cazangi, R. R & Figueiredo, M. (2002) *Simultaneous Emergence of Conflicting Basic Behaviors and Their Coordination in an Evolutionary Autonomous Navigation System* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 466–471.
- [82] Takenaka, Y & Hashimoto, A. (2002) *DNA computing by competitive hybridization for maximum satisfiability problem* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 472–476.
- [83] Bin, W, Yi, Z, Shaohui, L, & Zhongzhi, S. (2002) *CSIM: A Document Clustering Algorithm Based On Swarm Intelligence* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 477–482.
- [84] Kim, D. H, pyo Hong, W, & Park, J. I. (2002) *Auto-Tuning Of Reference Based PID Controller Using Immune Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 483–488.
- [85] Al-kazemi, B & Mohan, C. K. (2002) *Multi-Phase Generalization of the Particle Swarm Optimization Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 489–494.
- [86] Sutcliffe, A, Chang, W.-C, & Neville, R. (2002) *Optimizing System Requirements with Evolutionary Computation* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 495–499.
- [87] Wang, C, Soh, Y. C, Wang, H, & Wang, H. (2002) *A Hierarchical Genetic Algorithm for Path Planning in a Static Environment with Obstacles* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 500–505.
- [88] Tsai, C.-F, Tsai, C.-W, & Chen, C.-P. (2002) *A Novel Multiple-Searching Genetic Algorithm for Multimedia Multicast Routing* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 506–511.
- [89] Wen, C & Eberhart, R. C. (2002) *Genetic Algorithm for Logistics Scheduling Problem* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 512–516.
- [90] Dasgupta, D & Stoliartchouk, A. (2002) *Evolving PC System Hardware Configurations* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 517–522.
- [91] Watanabe, I, Okada, K, ichi Tokoro, K, & Matsui, S. (2002) *Adaptive Multiagent Model of Electric Power Market with Congestion Management* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 523–528.
- [92] Moroni, A, Von Zuben, F, Manzolli, J, & Mammana, A. (2002) *Capturing Human Judgment to Simulate Objective Function* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 529–534.

- [93] Hernandez, J. C, Isasi, P, & Ribagorda, A. (2002) *Easing collision finding in cryptographic primitives with genetic algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 535–539.
- [94] Kimiaghalam, B, Homaifar, A, Bikdash, M, & Sayyarodsari, B. (2002) *Genetic Algorithm Based Gain Scheduling* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 540–545.
- [95] Tsujimura, Y, Gen, M, & Syarif, A. (2002) *Solving A Nonlinear Side Constrained Transportation Problem by Using Spanning Tree-based Genetic Algorithm with Fuzzy Logic Controller* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 546–551.
- [96] Dozier, G. (2002) *A Comparison of Adaptive Virtual Constraint Identification Strategies for Recurrent Dynamic Constraint Satisfaction* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 552–557.
- [97] Li, Y & Kang, L. (2002) *Analysis of Optimal Trajectory on Evolutionary Algorithm and Some Control Strategies* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 558–563.
- [98] Eberbach, E. (2002) *On Expressiveness of Evolutionary Computation: Is EC Algorithmic?* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 564–569.
- [99] Willadsen, K & Wiles, J. (2002) *All binary representations are equal: but some are more equal than others* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 570–575.
- [100] Popela, P, Roupec, J, Osmera, P, & Matousek, R. (2002) *The Formal Stochastic Framework for Comparison of Genetic Algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 576–581.
- [101] Eiben, A. E & Jelasity, M. (2002) *A Critical Note on Experimental Research Methodology in EC* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 582–587.
- [102] Coletti, M. (2002) *A Preliminary Study of Learnable Evolution Methodology implemented with C4. 5* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 588–593.
- [103] Ho, S.-Y, Liu, C.-C, Liu, S, & Jou, J.-W. (2002) *Design of an Optimal Nearest Neighbor Classifier Using an Intelligent Genetic Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 594–599.
- [104] Watson, J & Wiles, J. (2002) *The rise and fall of learning: A neural network model of the genetic assimilation of acquired traits* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 600–605.
- [105] Watts, M & Kasabov, N. (2002) *Evolutionary Optimisation of Evolving Connectionist Systems* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 606–610.
- [106] Guinea, M. A, Gutierrez, G, Galvan, I, Sanchis, A, & Molina, J. M. (2002) *Generative Capacities of Grammars Codification for Evolution of NN Architectures* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 611–616.
- [107] Kim, P. K, Vadakkepat, P, Lee, T.-H, & Peng, X. (2002) *Evolution of Control Systems for Mobile Robots* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 617–622.

- [108] v. E. Conradie, A. Mikkulainen, R. & Aldrich, C. (2002) *Intelligent Process Control utilising Symbiotic Memetic Neuro-Evolution* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 623–628.
- [109] Eklund, S. E. (2002) *A Massively Parallel GP Engine in VLSI* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 629–633.
- [110] Chen, S. Y & Li, Y. F. (2002) *Optimum Viewpoint Planning for Model-Based Robot Vision* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 634–639.
- [111] MORI, K, Nishi, S, Fuchida, T, & Murashima, S. (2002) *Two Dimensional Resolution Improvement of Frame Images by Genetic Algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 640–645.
- [112] Acan, A. (2002) *Reciprocal Translocation with Adaptive Segment Length* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 646–651.
- [113] Liu, Y & Yao, X. (2002) *How to Control Search Step Size in Fast Evolutionary Programming* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 652–656.
- [114] Dukkipati, A & Murty, M. N. (2002) *Selection by Parts: ‘Selection in Two Episodes’ in Evolutionary Algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 657–662.
- [115] Murata, T, Nozawa, H, Tsujimura, Y, Gen, M, & Ishibuchi, H. (2002) *Effect of Local Search on the Performance of Cellular Multi-Objective Genetic Algorithms for Designing Fuzzy Rule-based Classification Systems* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 663–668.
- [116] Hafner, V & Salomon, R. (2002) *Evolving Neural Controllers for Visual Navigation* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 669–674.
- [117] Kim, D. H. (2002) *Tuning of 2-DOF PID Controller By Immune Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 675–680.
- [118] Kim, J.-W, Kim, S. W, Park, P, & Park, T. J. (2002) *On the Similarities between Binary-Coded GA and Real-Coded GA in Wide Search Space* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 681–686.
- [119] Janssen, M. A & Stow, D. W. (2002) *An Application of Immunocomputing to the Evolution of Rules for Ecosystem Management* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 687–692.
- [120] Nino, F & Beltran, O. (2002) *A change detection software agent based on immune mixed selection* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 693–698.
- [121] de Castro, L. N & Timmis, J. (2002) *An Artificial Immune Network for Multimodal Function Optimization* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 699–704.
- [122] Gonzalez, F, Dasgupta, D, & Kozma, R. (2002) *Combining Negative Selection and Classification Techniques for Anomaly Detection* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 705–710.
- [123] Knowles, J & Corne, D. (2002) *On Metrics for Comparing Non-Dominated Sets* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 711–716.



- [124] Valenzuela, C. (2002) *A Simple Evolutionary Algorithm for Multi-Objective Optimization (SEAMO)* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 717–722.
- [125] Farhang-Mehr, A & Azarm, S. (2002) *Diversity Assessment of Pareto-Optimal Solution Sets: An Entropy Approach* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 723–728.
- [126] Tassier, T, Everson, M. P, & Ostrowski, D. (2002) *Agent-Based Models as a Complement to Economic Theory: A Durable Goods Example* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 729–734.
- [127] Everson, M. P, Mangin, C. G. E, Stumpo, C, Schwartz, J. M, & Ostrowski, D. A. (2002) *Evaluating Strategies for Foreign Exchange Risk Reduction* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 735–740.
- [128] Ostrowski, D, Tassier, T, Everson, M. P, & Reynolds, R. G. (2002) *Using Cultural Algorithms to Evolve Strategies in Agent-Based Models* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 741–746.
- [129] Schleis, G & Rizki, M. (2002) *Learning from a Random Player using the Reference Neuron Model* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 747–752.
- [130] Crutchley, D & Zwolinski, M. (2002) *Using Evolutionary and Hybrid Algorithms for DC Operating Point Analysis of Nonlinear Circuits* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 753–758.
- [131] Karr, C. L, Zeiler, T. A, & Mehrotra, R. (2002) *Determining Critical Gust Loads on Aircraft Structures Using an Evolutionary Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 759–764.
- [132] Goto, R & Sato, Y. (2002) *Applicability of Genetic Algorithms to Motion Analysis of a Moving Object* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 765–770.
- [133] Stejic, Z, Iyoda, E. M, Takama, Y, & Hirota, K. (2002) *Image Similarity Computation Using Local Similarity Patterns Generated by Genetic Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 771–776.
- [134] Beielstein, T & Markon, S. (2002) *Threshold Selection, Hypothesis Tests, and DOE Methods* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 777–782.
- [135] Hutter, M. (2002) *Fitness Uniform Selection to Preserve Genetic Diversity* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 783–788.
- [136] Liang, Y & Leung, K.-S. (2002) *Two-way Mutation Evolution Strategies* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 789–794.
- [137] Aguirre, H & Tanaka, K. (2002) *Parallel Varying Mutation Genetic Algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 795–800.
- [138] Wenjian, L, Xianbin, C, & Xufa, W. (2002) *An Immune Genetic Algorithm Based on Immune Regulation* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 801–806.
- [139] Cayzer, S & Aickelin, U. (2002) *A Recommender System based on the Immune Network* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 807–812.

- [140] Bradley, D & Tyrrell, A. (2002) *A Hardware Immune System for Benchmark State Machine Error Detection* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 813–818.
- [141] Coello, C. A. C & Cortes, N. C. (2002) *A Parallel Implementation of the Artificial Immune System to Handle Constraints in Genetic Algorithms: Preliminary Results* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 819–824.
- [142] Deb, K, Thiele, L, Laumanns, M, & Zitzler, E. (2002) *Scalable Multi-Objective Optimization Test Problems* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 825–830.
- [143] Abbass, H. A. (2002) *The Self-Adaptive Pareto Differential Evolution Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 831–836.
- [144] Zhu, Z.-Y & Leung, K.-S. (2002) *Asynchronous Self-Adjustable Island Genetic Algorithm for Multi-Objective Optimization Problems* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 837–842.
- [145] Mostaghim, S, Teich, J, & Tyagi, A. (2002) *Comparison of Data Structures for Storing Pareto-sets in MOEAs* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 843–848.
- [146] Brewster, J, Reynolds, R. G, & Brockmeyer, M. A. (2002) *Not in My Backyard: A Simulation of the Effects of Agent Mobility on Environmental Poisoning* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 849–854.
- [147] Rychtyckyj, N & Reynolds, R. G. (2002) *Knowledge Base Maintenance Using Cultural Algorithms: Application to the DLMS Manufacturing Process System at Ford Motor Company* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 855–860.
- [148] Reynolds, R. G & Lazar, A. (2002) *Simulating the Evolution of the Archaic States* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 861–866.
- [149] Goodhall, S, Reynolds, R. G, & Whallon, R. (2002) *Altruism, Selfishness, and Survival: An Agent-Based Model Of Sharing Behavior* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 867–871.
- [150] Lin, Y.-C, Hwang, K.-S, & Wang, F.-S. (2002) *Hybrid Differential Evolution with Multiplier Updating Method for Nonlinear Constrained Optimization Problems* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 872–877.
- [151] Craenen, B. G. W & Eiben, A. E. (2002) *An Experimental Comparison of SAWing EAs for a new Class of Random Binary CSPs* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 878–883.
- [152] Hamida, S. B & Schoenauer, M. (2002) *ASCEA: New Results Using Adaptive Segregational Constraint Handling* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 884–889.
- [153] Zou, X, Kang, L, & Li, Y. (2002) *A Dynamical Evolutionary Algorithm For Constrained Optimization Problems* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 890–895.
- [154] Kordon, A, Smits, G, Jordaan, E, & Rightor, E. (2002) *Robust Soft Sensors Based On Integration of Genetic Programming, Analytical Neural Networks, and Support Vector Machines* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 896–901.

- [155] Portillo, A. B. J. G.-H. J. M. M. J. B. J. (2002) *OCR Parameters Tuning by Means of Evolution Strategies for Aircraft's Tail Number Recognition* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 902–907.
- [156] Tan, K. C, Lee, T. H, Cai, J, & Chew, Y. H. (2002) *Automating the drug scheduling of cancer chemotherapy via evolutionary computation* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 908–913.
- [157] Hatanaka, T, Uosaki, K, & Koga, M. (2002) *Evolutionary Computation Approach to Wiener Model Identification* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 914–919.
- [158] Costa, A. M, Vargas, P. A, Von Zuben, F. J, & Franca, P. M. (2002) *Makespan Minimization on Parallel Processors: An Immune-Based Approach* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 920–925.
- [159] Watkins, A. B & Boggess, L. C. (2002) *A Resource Limited Artificial Immune Classifier* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 926–931.
- [160] Cheh, J. J. (2002) *A Heuristic Approach to Efficient Production of Detector Sets for An Artificial Immune Algorithm-Based Bankruptcy Prediction System* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 932–937.
- [161] Tarakanov, A & Skormin, V. (2002) *Pattern Recognition by Immunocomputing* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 938–943.
- [162] Lu, H & Yen, G. (2002) *Rank-Density Based Multiobjective Genetic Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 944–949.
- [163] Ishibushi, H, Yoshida, T, & Murata, T. (2002) *Selection of Initial Solutions for Local Search in Multiobjective Genetic Local Search* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 950–955.
- [164] Farina, M. (2002) *A Neural Network Based Generalized Response Surface Multiobjective Evolutionary Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 956–961.
- [165] Kadrovach, B. A, Zydallis, J. B, & Lamont, G. B. (2002) *Use of Mendelian Pressure in a Multi-Objective Genetic Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 962–967.
- [166] Shinkai, M, Aguirre, H, & Tanaka, K. (2002) *Mutation Strategy Improves GA's Performance on Epistatic Problems* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 968–973.
- [167] Tsutsui, S & Goldberg, D. E. (2002) *Simplex Crossover and Linkage Identification: Single-Stage Evolution VS. Multi-Stage Evolution* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 974–979.
- [168] Thierens, D. (2002) *Adaptive mutation rate control schemes in genetic algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 980–985.
- [169] Lones, M & Tyrrell, A. (2002) *Crossover and Bloat in the Functionality Model of Enzyme Genetic Programming* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 986–991.
- [170] Bendtsen, C. N & Krink, T. (2002) *Phone Routing using the Dynamic Memory Model* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 992–997.

- [171] Xu, J, Arslan, T, & Qing-Wang, D. W. (2002) *GPS Attitude Determination Using a Genetic Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 998–1002.
- [172] Zhang, Y, Hall, L. O, Goldgof, D. B, & Sarkar, S. (2002) *A Constrained Genetic Approach for Reconstructing Young's Modulus of Elastic Objects from Boundary Displacement Measurements* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1003–1008.
- [173] Majumdar, N. S & Dasgupta, D. (2002) *Determining Optimal Configuration for Turbine Generator Cooler* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1009–1014.
- [174] Kim, J & Bentley, P. J. (2002) *Toward an Artificial Immune System for Network Intrusion Detection: An Investigation of Dynamic Clonal Selection* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1015–1020.
- [175] Michelan, R & Von Zuben, F. J. (2002) *Decentralized Control System for Autonomous Navigation Based on an Evolved Artificial Immune Network* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1021–1026.
- [176] Anchor, K. P, Williams, P. D, Gunsch, G. H, & Lamont, G. B. (2002) *The Computer Defense Immune System: Current and Future Research in Intrusion Detection* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1027–1032.
- [177] Singh, S. P. N, Thayer, S. M, & Thayer, W. P. (2002) *A Foundation for Kilorobotic Exploration* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1033–1038.
- [178] Dasgupta, D & Majumdar, N. S. (2002) *Anomaly Detection in Multidimensional Data using Negative Selection Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1039–1044.
- [179] Balthrop, J, Forrest, S, & Glickman, M. R. (2002) *Revisting LISYS: Parameters and Normal Behavior* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1045–1050.
- [180] Coello, C. A. C & Lechuga, M. S. (2002) *MOPSO: A Proposal for Multiple Objective Particle Swarm Optimization* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1051–1056.
- [181] Alves da Silva, A. P & Abrao, P. J. (2002) *Applications of Evolutionary Computation in Electric Power Systems* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1057–1062.
- [182] Falcao, D. M. (2002) *Genetic Algorithms Applications in Electrical Distribution Systems* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1063–1068.
- [183] Lee, K. Y & Mohamed, P. S. (2002) *A Real-Coded Genetic Algorithm Involving a Hybrid Crossover Method for Power Plant Control System Design* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1069–1074.
- [184] Kassabalidis, I. N, El-Sharkawi, M. A, & II, R. J. M. (2002) *Border Identification for Power System Security Assessment Using Neural Network Inversion: An Overview* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1075–1079.
- [185] Miranda, V & Fonseca, N. (2002) *EPSO - Best-of-Two Worlds Meta-Heuristic Applied to Power System Problems* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1080–1085.

- [186] Revello, T. E & McCartney, R. (2002) *Generating War Game Strategies Using A Genetic Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1086–1091.
- [187] Ho, S.-Y, Ho, S.-J, & Huang, Z.-B. (2002) *An Evolutionary Approach for Pose Determination and Interpretation of Occluded Articulated Objects* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1092–1097.
- [188] Rojas, F, Puntonet, C. G, Rojas, I, Ortega, J, & Prieto, A. (2002) *Genetic Algorithm Approach to Nonlinear Blind Source Separation* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1098–1102.
- [189] Collet, P, Louchet, J, & Lutton, E. (2002) *Issues on the Optimisation of Evolutionary Algorithms Code* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1103–1108.
- [190] Hingston, P, Barone, L, & While, L. (2002) *Evolving Crushers* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1109–1114.
- [191] Milone, D. H, Merelo, J. J, & Rufiner, H. L. (2002) *Evolutionary Algorithm for Speech Segmentation* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1115–1120.
- [192] Qiao, Y & WeiXin, X. (2002) *A Network IDS with Low False Positive Rate* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1121–1126.
- [193] Hughes, E. J. (2002) *Multi-Objective Evolutionary Guidance for Swarms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1127–1132.
- [194] Jimenez, F, Gomez-Skarmeta, A. F, Sanchez, G, & Deb, K. (2002) *An Evolutionary Algorithm for Constrained Multi-objective Optimization* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1133–1138.
- [195] Ang, K. H, Chong, G, & Li, Y. (2002) *Preliminary Statement on the Current Progress of Multi-Objective Evolutionary Algorithm Performance Measurement* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1139–1144.
- [196] Madavan, N. (2002) *Multiobjective Optimization Using a Pareto Differential Evolution Approach* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1145–1150.
- [197] Basseur, M, Seynhaeve, F, & ghazali Talbi, E. (2002) *Design of Multi-Objective Evolutionary Algorithms: Application to the Flow-Shop Scheduling Problem* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1151–1156.
- [198] Lohn, J, Kraus, W. F, & Haith, G. L. (2002) *Comparing a Coevolutionary Genetic Algorithm for Multiobjective Optimization* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1157–1162.
- [199] Seth, A. K. (2002) *Distinguishing Adaptive From Non-Adaptive Evolution Using Ashby’s Law of Requisite Variety* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1163–1168.
- [200] Julstrom, B. A. (2002) *A Scalable Genetic Algorithm for the Rectilinear Steiner Problem* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1169–1173.
- [201] Sadati, N & Kuchakkhani, S. (2002) *Genetic Approach to Pole Placement by Static Output Feedback* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1174–1179.

- [202] Iwamatsu, M. (2002) *Co-Evolutionary Global Optimization Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1180–1184.
- [203] Cowling, P, Kendall, G, & Han, L. (2002) *An Investigation of a Hyperheuristic Genetic Algorithm Applied to a Trainer Scheduling Problem* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1185–1190.
- [204] Darwen, P. J. (2002) *Search Landscape of a Realistic Single-Machine Scheduling Task: Peaks with Big Differences* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1191–1196.
- [205] Burke, E. K, De Causmaecker, P, Petrovic, S, & Berghe, G. V. (2002) *A Multi Criteria Meta-heuristic Approach to Nurse Rostering* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1197–1202.
- [206] Li, J & Kwan, R. (2002) *A Fuzzy Evolutionary Approach with Taguchi Parameter Setting for the Set Covering Problem* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1203–1208.
- [207] Nikolaev, N, de Menezes, L. M, & Iba, H. (2002) *Overfitting Avoidance in Genetic Programming of Polynomials* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1209–1214.
- [208] Fischer, M. M. (2002) *A Novel Modular Product Unit Neural Network for Modelling Constrained Spatial Interaction Flows* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1215–1220.
- [209] Endou, T & Zhao, Q. (2002) *Generation of Comprehensible Decision Trees Through Evolution of Training Data* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1221–1225.
- [210] Ishida, C. Y & Pozo, A. T. R. (2002) *GPSQL Miner: SQL-Grammar Genetic Programming in Data Mining* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1226–1231.
- [211] Minami, M, Tamamura, A, & Asakura, T. (2002) *Machine Intelligence of a Mobile Manipulator to Utilize Dynamically Interfered Motion and Nonlinear Friction* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1232–1237.
- [212] Sarafis, I, Zalzal, A. M. S, & Trinder, P. (2002) *A Genetic Rule-Based Data Clustering Toolkit* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1238–1243.
- [213] Avgerinos, E, Zalzal, A. M. S, & Zografos, G. (2002) *Towards Evolutionary Optimisation for High Resolution Bathymetry from SideScan Sonars* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1244–1249.
- [214] Burczynski, T, Kus, W, Majchrzak, E, Orantek, P, & Dziewonski, M. (2002) *Evolutionary Computation in Identification of a Tumor* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1250–1254.
- [215] Cupertino, F, Naso, D, Salvatore, L, & Turchiano, B. (2002) *Design of Cascaded Controllers for DC Drives using Evolutionary Algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1255–1260.
- [216] Chrzanowska-Jeske, M, Greenwood, G, & Wang, B. (2002) *Combining Evolution Strategies with Lagrangian Relaxation for Constructing Nonslicing VLSI Floorplans With Soft Modules* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1261–1266.

- [217] Canham, R. O & Tyrrell, A. M. (2002) *Evolved Fault Tolerance in Evolvable Hardware* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1267–1271.
- [218] Tan, K. C, Chew, C. M, Tan, K. K, Wang, L. F, & Chen, Y. J. (2002) *Autonomous robot navigation via intrinsic evolution* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1272–1277.
- [219] Wei, C, He, Z, Zhang, Y, & Pei, W. (2002) *Swarm Directions Embedded in Fast Evolutionary Programming* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1278–1283.
- [220] Tsui, K. C & Liu, J. (2002) *Evolutionary Diffusion Optimization, Part II: Performance Assessment* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1284–1289.
- [221] Tsai, H.-K, Yang, J.-M, & Kao, C.-Y. (2002) *Solving Traveling Salesman Problems by Combining Global and Local Search Mechanisms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1290–1295.
- [222] Ashlock, D, Guo, L, & Qiu, F. (2002) *Greedy Closure Evolutionary Algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1296–1301.
- [223] Tan, K. C, Tay, A, Lee, T. H, & Heng, C. M. (2002) *Mining multiple comprehensible classification rules using genetic programming* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1302–1307.
- [224] Ghezelayagh, H & Lee, K. Y. (2002) *Intelligent Predictive Control of A Power Plant with Evolutionary Programming Optimizer and Neuro-Fuzzy Identifier* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1308–1313.
- [225] Wong, M. L, Lee, S. Y, & Leung, K. S. (2002) *A Hybrid Approach to Learn Bayesian Networks Using Evolutionary Programming* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1314–1319.
- [226] Xu, X, gen He, H, & Hu, D. (2002) *Evolutionary Adaptive-Critic Methods for Reinforcement Learning* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1320–1325.
- [227] Hoai, N. X, McKay, R. I, Essam, D, & Chau, R. (2002) *Solving the Symbolic Regression Problem with Tree-Adjunct Grammar Guided Genetic Programming: The Comparative Results* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1326–1331.
- [228] Munetomo, M. (2002) *Linkage Identification Based on Epistasis Measures to Realize Efficient Genetic Algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1332–1337.
- [229] Das, S. (2002) *Gene Spill: An Evolutionary Algorithm Based on Bacterial Gene Exchange* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1338–1342.
- [230] Yamamoto, K, Yoshikawa, T, Furuhashi, T, Shinogi, T, & Tsuruoka, S. (2002) *Evaluation of Search Performance of Bacterial Evolutionary Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1343–1347.
- [231] Smith, T, Philippides, A, Husbands, P, & O’Shea, M. (2002) *Neutrality and ruggedness in robot landscapes* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1348–1353.

- [232] Toussaint, M & Igel, C. (2002) *Neutrality: A necessity for self-adaptation* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1354–1359.
- [233] Shipman, R, Shackleton, M, & Ebner, M. (2002) *Issues in Designing a Neutral Genotype-Phenotype Mapping* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1360–1365.
- [234] Cyre, W. (2002) *Learning Grammars with a Modified Classifier System* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1366–1371.
- [235] Ursem, R. K & Krink, T. (2002) *Genetic Programming with Smooth Operators for Arithmetic Expressions: Diviplication and Subditiion* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1372–1377.
- [236] Ho., S.-Y. H. S.-J & Chen, T.-K. (2002) *Design of High Performance Fuzzy Controllers Using Flexible Parameterized Membership Functions and Intelligent Genetic Algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1378–1383.
- [237] Delgado, M. R, Von Zuben, F, & Gomide, F. (2002) *Coevolutionary Design of Takagi-Sugeno Fuzzy Systems* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1384–1389.
- [238] Santana, R & Muehlenbein, H. (2002) *Blocked Stochastic Sampling versus Estimation of Distribution Algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1390–1395.
- [239] Cho, D.-Y & Zhang, B.-T. (2002) *Evolutionary Optimization by Distribution Estimation with Mixtures of Factor Analyzers* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1396–1401.
- [240] Katsumata, Y, Kurahashi, S, & Terano, T. (2002) *We Need Multiple Solutions for Electric Equipments Configuration in a Power Plant - Applying Bayesian Optimization Algorithm with Tabu Search* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1402–1407.
- [241] Davis, J. E & Kendall, G. (2002) *An Investigation, using Co-Evolution, to Evolve an Awari Player* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1408–1413.
- [242] Subbu, R & Sanderson, A. C. (2002) *Network Performance of Distributed Coevolutionary Agents* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1414–1419.
- [243] Cartlidge, J & Bullock, S. (2002) *Learning lessons from the common cold: How reducing parasite virulence improves coevolutionary optimization* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1420–1425.
- [244] van Bragt, D. D. B & La Poutre, J. A. (2002) *Co-evolving Automata Negotiate with a Variety of Opponents* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1426–1431.
- [245] Satoh, T, Kuwabara, H, Masakazu, Kanezashi, & Nara, K. (2002) *Artificial Life System and its Application to Multiple-Fuel Economic Load Dispatch Problem* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1432–1437.
- [246] Liang, S, Zincir-Heywood, A. N, & Heywood, M. I. (2002) *The Effect of Routing under Local Information using a Social Insect Metaphor* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1438–1443.



- [247] Schoofs, L & Naudts, B. (2002) *Swarm Intelligence on the Binary Constraint Satisfaction problem* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1444–1449.
- [248] Isaacs, J, Watkins, R, & Foo, S. (2002) *Evolving Ant Colony Systems in Hardware for Random Number Generation* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1450–1455.
- [249] Xie, X, Zhang, W, & Yang, Z. (2002) *A Dissipative Particle Swarm Optimization* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1456–1461.
- [250] Blackwell, T & Bentley, P. J. (2002) *Improvised Music with Swarms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1462–1467.
- [251] Lampinen, J. (2002) *A Constraint Handling Approach for the Differential Evolution Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1468–1473.
- [252] Krink, T, Vesterstrøm, J. S, & Riget, J. (2002) *Particle Swarm Optimisation with Spatial Particle Extension* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1474–1479.
- [253] Koo, J. H, Kim, T. S, Dong, S. S, & Lee, C. H. (2002) *Development of FPGA Based Adaptive Image Enhancement Filter System Using Genetic Algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1480–1485.
- [254] Corno, F, Cumani, G, Reorda, M. S, & Squillero, G. (2002) *Efficient Machine-Code Test-Program Induction* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1486–1491.
- [255] Homma, N, Aoki, T, & Higuchi, T. (2002) *Graph-Based Individual Representation for Evolutionary Synthesis of Arithmetic Circuits* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1492–1497.
- [256] Salomon, R. (2002) *The Force Model: Reducing the Complexity by Reformulating the Problem* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1498–1503.
- [257] Boonlong, K, Chaityaratana, N, & Kuntanapreeda, S. (2002) *Using A Co-Operative Co-Evolutionary Genetic Algorithm to Solve Optimal Control Problems in a Hysteresis System* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1504–1509.
- [258] Bersini, H. (2002) *And the winner is not the fittest* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1510–1515.
- [259] Yuan, B. (2002) *Deterministic Crowding, Recombination And Self-Similarity* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1516–1521.
- [260] Murakami, Y, Sato, H, & Namatame, A. (2002) *Realizing Unstable Social Efficiency with Mutual Learning of Meta-Rules* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1522–1527.
- [261] Wittner, O & Helvik, B. E. (2002) *Cross Entropy Guided Ant-like Agents Finding Dependable Primary/Backup Path Patterns in Networks* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1528–1533.
- [262] Bjarnason, R & Peterson, T. (2002) *Multi-agent Learning via Implicit Opponent Modeling* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1534–1539.

- [263] Jelasity, M, Preuss, M, & Paechter, B. (2002) *A Scalable and Robust Framework for Distributed Applications* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1540–1545.
- [264] Watkins, A & Bogges, L. (2002) *A New Classifier Based on Resource Limited Artificial Immune Systems* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1546–1551.
- [265] Ando, S & Iba, H. (2002) *Ant Algorithm for Construction of Evolutionary Tree* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1552–1557.
- [266] Blum, C & Sampels, M. (2002) *Ant Colony Optimization for FOP Shop Scheduling: A case study on different pheromone representations* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1558–1563.
- [267] Schreyer, M & Raidl, G. R. (2002) *Letting Ants Labeling Point Features* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1564–1569.
- [268] Vesterstrøm, J. S, Riget, J, & Krink, T. (2002) *Division of Labor in Particle Swarm Optimisation* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1570–1575.
- [269] Laskari, E. C, Parsopoulos, K. E, & Vrahatis, M. N. (2002) *Particle Swarm Optimization for Minimax Problems* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1576–1581.
- [270] Laskari, E. C, Parsopoulos, K. E, & Vrahatis, M. N. (2002) *Particle Swarm Optimization for Integer Programming* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1582–1587.
- [271] Løvbjerg, M & Krink, T. (2002) *Extending Particle Swarm Optimisers with Self-Organized Criticality* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1588–1593.
- [272] Harris, D & Bullock, S. (2002) *Enhancing game theory with coevolutionary simulation models of honest signaling* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1594–1599.
- [273] Wiegand, R. P, Liles, W, & De Jong, K. (2002) *Analyzing Cooperative Coevolution with Evolutionary Game Theory* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1600–1605.
- [274] Ord, T & Blair, A. (2002) *Exploitation and peacekeeping: introducing more sophisticated interactions to the iterated prisoner's dilemma* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1606–1611.
- [275] Murao, H, Tamaki, H, & Kitamura, S. (2002) *A Coevolutionary Approach To Adapt The Genotype-Phenotype Map In Genetic Algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1612–1617.
- [276] Anchor, K, Lamont, G, & Gunsch, G. (2002) *An Evolutionary Programming Approach for Detecting Novel Computer Network Attacks* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1618–1623.
- [277] Chu, C.-H, Gu, J, Hou, X. D, & Gu, Q. (2002) *A Heuristic Ant Algorithm for Solving QoS Multicast Routing Problem* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1630–1635.
- [278] Tsai, C.-F, Tsai, C.-W, & Tseng, C.-C. (2002) *A New Approach for Solving Large Traveling Salesman Problem* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1636–1641.

- [279] Khan, J. A, Sait, S. M, & Minhas, M. R. (2002) *Fuzzy Biasless Simulated Evolution for Multiobjective VLSI Placement* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1642–1647.
- [280] Lu, H & Yen, G. G. (2002) *Dynamic Population Size in Multiobjective Evolutionary Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1648–1653.
- [281] Abbass, H. A, Hoai, N. X, & McKay, R. I. (2002) *AntTAG: A New Method to Compose Computer Programs Using Colonies of Ants* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1654–1659.
- [282] Yang, J. T, Huang, H.-D, & Horng, J.-T. (2002) *Devising A Cost Effective Baseball Scheduling by Evolutionary Algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1660–1665.
- [283] Hu, X & Eberhart, R. (2002) *Adaptive Particle Swarm Optimization: Detection and Response to Dynamic Systems* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1666–1670.
- [284] Kennedy, J & Mendes, R. (2002) *Population Structure and Particle Swarm Performance* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1671–1676.
- [285] Hu, X & Eberhart, R. (2002) *Multiobjective Optimization Using Dynamic Neighborhood Particle Swarm Optimization* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1677–1681.
- [286] Shi, Y & Krohling, R. A. (2002) *Co-evolutionary Particle Swarm Optimization to Solve min-max Problems* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1682–1687.
- [287] Krohling, R. A, Knidel, H, & Shi, Y. (2002) *Solving Numerical Equations of Hydraulic Problems Using Particle Swarm Optimization* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1688–1690.
- [288] Blackwell, T & Bentley, P. J. (2002) *Don't Push Me! Collision-Avoiding Swarms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1691–1696.
- [289] Vincent, J. (2002) *A Comparison of Reproductive Success and the Effect of Mating Restrictions in Coarse-Grained Parallel Genetic Algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1697–1702.
- [290] Leung, K. S, Lee, K. H, & Cheang, S. M. (2002) *Evolving Parallel Machine Programs for a Multi-ALU Processor* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1703–1708.
- [291] Li, X & Kirley, M. (2002) *The Effects of Varying Population Density in a Fine-grained Parallel Genetic Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1709–1714.
- [292] Kojima, K, Matsuo, H, & Ishigame, M. (2002) *Reduction of Communication Quantity for Network Based Parallel GA* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1715–1720.
- [293] Hamilton-Wright, A & Stacey, D. (2002) *Fault-Tolerant Network Computation of Individuals in Genetic Algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1721–1726.

- [294] Galeano, G, Fernandez, F, Tomassini, M, & Vanneschi, L. (2002) *Studying the influence of Synchronous and Asynchronous parallel GP on Programs' Length Evolution* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1727–1732.
- [295] Joines, J. A & Kay, M. G. (2002) *Hybrid Genetic Algorithms and Random Linkage* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1733–1738.
- [296] Zhang, R, King, W. K, & Wang, Q. (2002) *Applying Evolutionary Programming to Improve Branch Classification In the Hybrid Branch Prediction Method Using Switch-Counter* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1739–1744.
- [297] Chang, M, Ohkura, K, Ueda, K, & Sugiyama, M. (2002) *A symbiotic evolutionay algorithm for dynamic facility layout problem* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1745–1750.
- [298] Srinivasan, D, Seow, T. H, & Xu, J. X. (2002) *Automated Time Table Generation Using Multiple Context Reasoning for University Modules* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1751–1756.
- [299] Stanley, K. O & Miikkulainen, R. (2002) *Efficient Evolution of Neural Network Topologies* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1757–1762.
- [300] Wang, Y & Lu, Y. (2002) *The Fast Neural Network Solution for Problems Based on Slow Genetic Algorithm Solutions* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1763–1768.
- [301] Edwards, D. C, Brown, K. E, & Taylor, N. K. (2002) *An Evolutionary Method for the Design of Generic Neural Networks* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1769–1774.
- [302] Weingaertner, D, Tatai, V. K, Gudwin, R. R, & Zuben, F. J. V. (2002) *Hierarchical Evolution of Heterogeneous Neural Networks* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1775–1780.
- [303] Kovacs, T. (2002) *Performance and Population State Metrics for Rule-based Learning Systems* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1781–1786.
- [304] Aizawa, A. (2002) *A Co-evolutionary Framework for Clustering in Information Retrieval Systems* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1787–1792.
- [305] Lee, C.-Y & Antonsson, E. K. (2002) *Reinforcement Learning in Steady-State Cellular Genetic Algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1793–1797.
- [306] Hercog, L. M & Fogarty, T. C. (2002) *Co-evolutionary Classifier Systems for Multi-Agent Simulation* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1798–1803.
- [307] Wai, Y. Y, Chow, C. K, & Lee, T. (2002) *Resolving Ambiguity in Depth Extraction for Motion Capture using Genetic Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1804–1809.
- [308] Kaiser, M. J, Tsui, K. C, & Liu, J. (2002) *Adaptive Distributed Caching* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1810–1815.

- [309] Chavali, S, Pahwa, A, & Das, S. (2002) *A Genetic Algorithm Approach for Optimal Distribution Feeder Restoration During Cold Load Pickup* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1816–1819.
- [310] Golovkin, I. E, Louis, S. J, & Mancini, R. C. (2002) *Parallel Implementation of Niche Pareto Genetic Algorithm Code for X-ray Plasma Spectroscopy* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1820–1824.
- [311] Aktan, B, Greenwood, G, & Shor, M. (2002) *Improving Evolutionary Algorithm Performance on Maximizing Functional Test Coverage of ASICs Using Adaptation of the Fitness Criteria* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1825–1829.
- [312] Stoica, A, Zebulum, R, Keymeulen, D, Ferguson, M. I, & Duong, V. (2002) *Fuzzy controller implementations with fewer than ten transistors?* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1830–1835.
- [313] Bird, J & Layzell, P. (2002) *The Evolved Radio and its Implications for Modelling the Evolution of Novel Sensors* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1836–1841.
- [314] Mazza, III, R. H & Congdon, C. B. (2002) *Towards a Genetic Algorithms Approach to Designing 3D Polygonal Tree Models* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1842–1847.
- [315] Matsumura, Y, Ohkura, K, & Ueda, K. (2002) *Advantages of Global Discrete Recombination in ( $\mu$ ,  $\mu$ ,  $\lambda$ ) Evolution Strategies* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1848–1853.
- [316] Monakhov, O & Monakhova, E. (2002) *Using Evolutionary Algorithm for Generation of Dense Families of Circulant Networks* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1854–1859.
- [317] Xu, J.-X, Panda, S. K, & Zheng, Q. (2002) *Multiobjective Optimization of Current Waveforms for Switched Reluctance Motors by Genetic Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1860–1865.
- [318] Wu, X, Chu, C.-H, Wang, Y, & Yan, W. (2002) *A Genetic Algorithm for Integrated Cell Formation and Layout Decision* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1866–1871.
- [319] Bongard, J. C. (2002) *Evolving Modular Genetic Regulatory Networks* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1872–1877.
- [320] Harvey, P. R. W, Booth, D. M, & Boyce, J. F. (2002) *Evolving The Mapping between input Neurons and Multi-Source Imagery* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1878–1883.
- [321] Verma, B & Ghosh, R. (2002) *A Novel Evolutionary Neural Learning Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1884–1889.
- [322] Fu, X & Wang, L. (2002) *A GA-Based Novel RBF Classifier with Class-Dependent Features* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1890–1894.
- [323] Yen, G. G & Nithianandan, N. (2002) *Facial Feature Extraction Using Genetic Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1895–1900.

- [324] Blaha, B & Wunsch, D. (2002) *Evolutionary Programming to Optimize an Assembly Program* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1901–1903.
- [325] Beielstein, T, Dienstuhl, J, Feist, C, & Pompl, M. (2002) *Circuit Design Using Evolutionary Algorithms* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1904–1909.
- [326] Hoar, R, Penner, J, & Jacob, C. (2002) *Evolutionary Swarm Traffic: If Ant Roads Had Traffic Lights* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1910–1915.
- [327] Fu, X & Wang, L. (2002) *Rule Extraction from an RBF Classifier Based on Class-Dependent Features* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1916–1921.
- [328] Mordaunt, P & Zalzal, A. (2002) *Towards an Evolutionary Neural Network For Gait Analysis* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1922–1927.
- [329] Ling, S. H, Lam, H. K, Leung, F. H. F, & Tam, P. K. S. (2002) *Learning of Neural Network Parameters using a Fuzzy Genetic Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1928–1933.
- [330] Ciftcioglu, O. (2002) *GA with Orthogonal Transformation for RBFN Configuration* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1934–1939.
- [331] Lee, K.-H, Lee, C.-H, Kim, J.-H, Choi, H.-L, & Tahk, M.-J. (2002) *Evolutionary Optimized Pitching Motion Control for F-16 Aircraft* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1940–1945.
- [332] Chan, C. K, Gooi, H. B, & Lim, M. H. (2002) *A Co-evolutionary Algorithm approach to a University Timetable System* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1946–1951.
- [333] Lucas, S. (2002) *Evolving spring-mass models: a test-bed for graph encoding schemes* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1952–1957.
- [334] Torres-Velazquez, R & Estivill-Castro, V. (2002) *A Memetic Algorithm Instantiated with Selection Sort Consistently Finds Global Optima for the Error-Correcting Graph Isomorphism* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1958–1963.
- [335] Kim, S.-J, Kim, J.-S, Seo, J.-Y, Cho, H.-C, & Jeon, H.-T. (2002) *Optimal Initial Structure of the RBF Networks Using Time-Frequency Localization and Genetic Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1964–1969.
- [336] Tuci, E, Quinn, M, & Harvey, I. (2002) *Evolving fixed-weight networks for learning robots* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1970–1975.
- [337] Oeda, S, Ichimura, T, & Yamashita, T. (2002) *Biological immune system by evolutionary adaptive learning of neural networks* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1976–1981.
- [338] Ding, Y & Ren, L. (2002) *A New DNA-Based Evolutionary Algorithm with Application to the Design of Fuzzy Controllers* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1982–1987.

- [339] Taylor, D, Corne, D, Taylor, D, & Harkness, J. (2002) *Predicting Alarms in Supermarket Refrigeration Systems Using Evolved Neural Networks and Evolved Rulesets* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1988–1993.
- [340] Xin, L, Vadakkepat, P, Lee, T. H, Peng, X, & Kim, P. K. (2002) *Comparison of Robot Navigation by Evolutionary Neural Networks and Pain-based Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 1994–1999.
- [341] Galvao, R. K. H, Becerra, V. M, & Abou-Seada, M. (2002) *Variable Selection for Financial Distress Classification Using a Genetic Algorithm* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 2000–2005.
- [342] Svangard, N, Lloyd, S, Nordin, P, & Wihlborg, C. (2002) *Evolving Short-Term Trading Strategies Using Genetic Programming* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 2006–2010.
- [343] Hamada, T, Kawamura, H, Yamamoto, M, & Ohuchi, A. (2002) *A Study on Behavioral Structure of Artificial Market Based on Adaptive Game* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 2011–2016.
- [344] Yamasaki, K, Kitakaze, K, & Sekiguchi, M. (2002) *Dynamic Optimization by Evolutionary Algorithms Applied to Financial Time Series* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 2017–2022.
- [345] Minerva, T & Paterlini, S. (2002) *Evolutionary Approaches for Statistical Modelling* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 2023–2028.
- [346] Cliff, D. (2002) *Evolution of Market Mechanism through a Continuous Space of Auction-Types* eds. Fogel, D. B, El-Sharkawi, M. A, Yao, X, Greenwood, G, Iba, H, Marrow, P, & Shackleton, M. (IEEE Press), pp. 2029–2034.