

Список литературы

- [1] H. A. Abbass, “The self-adaptive pareto differential evolution algorithm,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 831–836.
- [2] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1654–1659.
- [3] A. Acan, “Reciprocal translocation with adaptive segment length,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 646–651.
- [4] H. Aguirre and K. Tanaka, “Parallel varying mutation genetic algorithms,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 795–800.
- [5] A. Aizawa, “A co-evolutionary framework for clustering in information retrieval systems,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1787–1792.
- [6] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1825–1829.
- [7] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 489–494.
- [8] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 351–355.
- [9] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1057–1062.
- [10] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 7–12.
- [11] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1618–1623.
- [12] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1027–1032.

- [13] S. Ando and H. Iba, "Ant algorithm for construction of evolutionary tree," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1552–1557.
- [14] S. Ando, H. Iba, and E. Sakamoto, "Modeling genetic network by hybrid gp," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 291–296.
- [15] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1139–1144.
- [16] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 13–18.
- [17] D. Ashlock, L. Guo, and F. Qiu, "Greedy closure evolutionary algorithms," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1296–1301.
- [18] E. Avgerinos, A. M. S. Zalazala, and G. Zografos, "Towards evolutionary optimisation for high resolution bathymetry from sidescan sonars," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1244–1249.
- [19] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 431–436.
- [20] J. Balthrop, S. Forrest, and M. R. Glickman, "Revisting lisys: Parameters and normal behavior," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1045–1050.
- [21] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1151–1156.
- [22] T. Beielstein, J. Dienstuhl, C. Feist, and M. Pompl, "Circuit design using evolutionary algorithms," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1904–1909.
- [23] T. Beielstein and S. Markon, "Threshold selection, hypothesis tests, and doe methods," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 777–782.
- [24] C. N. Bendtsen and T. Krink, "Dynamic memory model for non-stationary optimization," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 145–150.
- [25] —, "Phone routing using the dynamic memory model," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 992–997.

- [26] H. Bersini, “And the winner is not the fittest,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1510–1515.
- [27] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 477–482.
- [28] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1836–1841.
- [29] R. Bjarnason and T. Peterson, “Multi-agent learning via implicit opponent modeling,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1534–1539.
- [30] T. Blackwell and P. J. Bentley, “Don’t push me! collision-avoiding swarms,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1691–1696.
- [31] —, “Improvised music with swarms,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1462–1467.
- [32] B. Blaha and D. Wunsch, “Evolutionary programming to optimize an assembly program,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1901–1903.
- [33] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1558–1563.
- [34] J. C. Bongard, “Evolving modular genetic regulatory networks,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1872–1877.
- [35] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1504–1509.
- [36] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 813–818.
- [37] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 849–854.
- [38] T. Burczynski, W. Kus, E. Majchrzak, P. Orantek, and M. Dziejowski, “Evolutionary computation in identification of a tumor,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1250–1254.

- [39] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1197–1202.
- [40] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 345–350.
- [41] R. O. Canham and A. M. Tyrrell, "Evolved fault tolerance in evolvable hardware," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1267–1271.
- [42] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1420–1425.
- [43] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 103–108.
- [44] S. Cayzer and U. Aickelin, "A recommender system based on the immune network," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 807–812.
- [45] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 466–471.
- [46] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1946–1951.
- [47] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1745–1750.
- [48] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1816–1819.
- [49] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 932–937.
- [50] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 634–639.

- [51] S. Chiba and K. Sugawara, "Estimation of protein function with an evolutionary dictionary," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 315–320.
- [52] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1396–1401.
- [53] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1261–1266.
- [54] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1630–1635.
- [55] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 67–72.
- [56] O. Ciftcioglu, "GA with orthogonal transformation for RBFN configuration," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1934–1939.
- [57] A. Cincotti, V. Cutello, and M. Pavone, "Graph partitioning with genetic algorithms using odpx," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 402–406.
- [58] M. Clergue and P. Collard, "Ga-hard functions built by combination of trap functions," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 249–254.
- [59] D. Cliff, "Evolution of market mechanism through a continuous space of auction-types," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 2029–2034.
- [60] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 819–824.
- [61] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1051–1056.
- [62] M. Coletti, "A preliminary study of learnable evolution methodology implemented with c4. 5," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 588–593.

- [63] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1103–1108.
- [64] F. Corno, G. Cumani, M. S. Reorda, and G. Squillero, "Efficient machine-code test-program induction," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1486–1491.
- [65] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 920–925.
- [66] L. Costa and P. Oliveira, "An evolution strategy for multiobjective optimization," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 97–102.
- [67] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1185–1190.
- [68] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 878–883.
- [69] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 753–758.
- [70] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1255–1260.
- [71] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 366–371.
- [72] W. Cyre, "Learning grammars with a modified classifier system," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1366–1371.
- [73] J. M. Daida, "Limits to expression in genetic programming: Lattice-aggregate modeling," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 273–278.
- [74] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1191–1196.

- [75] S. Das, “Gene spill: An evolutionary algorithm based on bacterial gene exchange,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1338–1342.
- [76] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1039–1044.
- [77] D. Dasgupta and A. Stoliartchouk, “Evolving pc system hardware configurations,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 517–522.
- [78] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1408–1413.
- [79] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 127–132.
- [80] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 699–704.
- [81] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 231–236.
- [82] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 454–459.
- [83] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 61–66.
- [84] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 825–830.
- [85] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1384–1389.
- [86] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1982–1987.

- [87] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 552–557.
- [88] S. Droste, "Analysis of the (1+1) ea for a dynamically changing onemax-variant," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 55–60.
- [89] A. Dukupati and M. N. Murty, "Selection by parts: 'selection in two episodes' in evolutionary algorithms," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 657–662.
- [90] E. Eberbach, "On expressiveness of evolutionary computation: Is ec algorithmic?" in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 564–569.
- [91] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1769–1774.
- [92] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 582–587.
- [93] S. E. Eklund, "A massively parallel GP engine in VLSI," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 629–633.
- [94] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1221–1225.
- [95] J. A. Etzel, "'marigolds': an evolutionary algorithm simulation," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 327–332.
- [96] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 735–740.
- [97] D. M. Falcao, "Genetic algorithms applications in electrical distribution systems," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1063–1068.
- [98] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 723–728.
- [99] M. Farina, "A neural network based generalized response surface multiobjective evolutionary algorithm," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 956–961.

- [100] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1215–1220.
- [101] D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds., *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*. IEEE Press, 2002.
- [102] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1890–1894.
- [103] —, “Rule extraction from an rbf classifier based on class-dependent features,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1916–1921.
- [104] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1727–1732.
- [105] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 2000–2005.
- [106] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 43–48.
- [107] N. Geard and J. Wiles, “Diversity maintenance on neutral landscapes - an argument for recombination,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 211–213.
- [108] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 205–210.
- [109] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1308–1313.
- [110] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1820–1824.
- [111] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 705–710.

- [112] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 867–871.
- [113] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 765–770.
- [114] B. Greer, H. Hakonen, R. Lahdelma, and R. Miikkulainen, "Numerical optimization with neuroevolution," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 396–401.
- [115] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 611–616.
- [116] V. Hafner and R. Salomon, "Evolving neural controllers for visual navigation," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 669–674.
- [117] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 2011–2016.
- [118] S. B. Hamida and M. Schoenauer, "Aschea: New results using adaptive segregational constraint handling," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 884–889.
- [119] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1721–1726.
- [120] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1594–1599.
- [121] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1878–1883.
- [122] T. Hatanaka, K. Uosaki, and M. Koga, "Evolutionary computation approach to wiener model identification," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 914–919.
- [123] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1798–1803.

- [124] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 535–539.
- [125] P. Hingston, L. Barone, and L. While, "Evolving crushers," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1109–1114.
- [126] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 449–453.
- [127] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1092–1097.
- [128] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 594–599.
- [129] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1378–1383.
- [130] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1326–1331.
- [131] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1910–1915.
- [132] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1492–1497.
- [133] F.-S. Hsieh, "Design of evolvable manufacturing processes," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 339–344.
- [134] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 443–448.
- [135] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 49–54.

- [136] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1666–1670.
- [137] —, "Multiobjective optimization using dynamic neighborhood particle swarm optimization," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1677–1681.
- [138] E. J. Hughes, "Multi-objective evolutionary guidance for swarms," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1127–1132.
- [139] M. Hutter, "Fitness uniform selection to preserve genetic diversity," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 783–788.
- [140] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1450–1455.
- [141] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 950–955.
- [142] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1226–1231.
- [143] M. Iwamatsu, "Co-evolutionary global optimization algorithm," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1180–1184.
- [144] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 267–272.
- [145] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 687–692.
- [146] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1540–1545.
- [147] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 220–224.
- [148] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1133–1138.

- [149] J. A. Joines and M. G. Kay, "Hybrid genetic algorithms and random linkage," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1733–1738.
- [150] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 333–338.
- [151] B. A. Julstrom, "A scalable genetic algorithm for the rectilinear steiner problem," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1169–1173.
- [152] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 181–186.
- [153] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 962–967.
- [154] M. J. Kaiser, K. C. Tsui, and J. Liu, "Adaptive distributed caching," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1810–1815.
- [155] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 759–764.
- [156] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1075–1079.
- [157] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1402–1407.
- [158] J. Kennedy and R. Mendes, "Population structure and particle swarm performance," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1671–1676.
- [159] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1642–1647.
- [160] K. G. Khoo and P. N. Suganthan, "Objective function decomposition within genetic algorithm," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 356–359.

- [161] D. H. Kim, "Tuning of 2-dof pid controller by immune algorithm," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 675–680.
- [162] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 483–488.
- [163] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 681–686.
- [164] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1015–1020.
- [165] K. J. Kim and S.-B. Cho, "Evolving speciated checkers players with crowding algorithm," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 407–412.
- [166] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 261–266.
- [167] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 617–622.
- [168] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1964–1969.
- [169] B. Kimiaghalam, A. Homaifar, M. Bikdash, and B. Sayyarodsari, "Genetic algorithm based gain scheduling," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 540–545.
- [170] J. Knowles and D. Corne, "On metrics for comparing non-dominated sets," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 711–716.
- [171] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1715–1720.
- [172] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1480–1485.
- [173] 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*, D. B. Fogel, M. A. El-Sharkawi,

- X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 896–901.
- [174] T. Kovacs, “Performance and population state metrics for rule-based learning systems,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1781–1786.
 - [175] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1474–1479.
 - [176] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1688–1690.
 - [177] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 425–430.
 - [178] J. Lampinen, “A constraint handling approach for the differential evolution algorithm,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1468–1473.
 - [179] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 187–192.
 - [180] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 199–204.
 - [181] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1582–1587.
 - [182] —, “Particle swarm optimization for minimax problems,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1576–1581.
 - [183] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1793–1797.
 - [184] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 460–465.
 - [185] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1069–1074.

- [186] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1940–1945.
- [187] S.-I. Lee and S.-B. Cho, "Measuring evolvability in evolutionary robotics," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 163–168.
- [188] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1703–1708.
- [189] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1203–1208.
- [190] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1709–1714.
- [191] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 558–563.
- [192] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1438–1443.
- [193] Y. Liang and K.-S. Leung, "Two-way mutation evolution strategies," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 789–794.
- [194] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 384–389.
- [195] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 872–877.
- [196] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 225–230.
- [197] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1928–1933.
- [198] J. Liu and H. Iba, "Selecting informative genes using a multiobjective evolutionary algorithm," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 297–302.

- [199] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 652–656.
- [200] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1157–1162.
- [201] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 986–991.
- [202] M. Løvbjerg and T. Krink, “Extending particle swarm optimisers with self-organized criticality,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1588–1593.
- [203] H. Lu and G. Yen, “Rank-density based multiobjective genetic algorithm,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 944–949.
- [204] H. Lu and G. G. Yen, “Dynamic population size in multiobjective evolutionary algorithm,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1648–1653.
- [205] S. Lucas, “Evolving spring-mass models: a test-bed for graph encoding schemes,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1952–1957.
- [206] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 321–326.
- [207] N. Madavan, “Multiobjective optimization using a pareto differential evolution approach,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1145–1150.
- [208] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 175–180.
- [209] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 255–260.
- [210] N. S. Majumdar and D. Dasgupta, “Determining optimal configuration for turbine generator cooler,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1009–1014.

- [211] N. Matsumaru, S. Colombano, and K.-P. Zauner, "Scouting enzyme behavior," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 19–24.
- [212] Y. Matsumura, K. Ohkura, and K. Ueda, "Advantages of global discrete recombination in (μ , μ , λ) evolution strategies," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1848–1853.
- [213] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1842–1847.
- [214] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1–6.
- [215] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1021–1026.
- [216] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1115–1120.
- [217] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1232–1237.
- [218] T. Minerva and S. Paterlini, "Evolutionary approaches for statistical modelling," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 2023–2028.
- [219] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1080–1085.
- [220] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1854–1859.
- [221] P. Mordaunt and A. Zalzala, "Towards an evolutionary neural network for gait analysis," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1922–1927.
- [222] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 640–645.

- [223] A. Moroni, F. Von Zuben, J. Manzolli, and A. Mammanna, "Capturing human judgment to simulate objective function," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 529–534.
- [224] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 843–848.
- [225] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 151–156.
- [226] M. Munetomo, "Linkage identification based on epistasis measures to realize efficient genetic algorithms," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1332–1337.
- [227] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1522–1527.
- [228] H. Murao, H. Tamaki, and S. Kitamura, "A coevolutionary approach to adapt the genotype-phenotype map in genetic algorithms," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1612–1617.
- [229] 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 rule-based classification systems," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 663–668.
- [230] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 91–96.
- [231] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 309–314.
- [232] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1209–1214.
- [233] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 693–698.
- [234] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1976–1981.

- [235] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 378–383.
- [236] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 303–308.
- [237] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1606–1611.
- [238] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 741–746.
- [239] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 576–581.
- [240] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 902–907.
- [241] W. Pullan, "Optimising multiple aspects of network survivability," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 115–120.
- [242] Y. Qiao and X. WeiXin, "A network ids with low false positive rate," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1121–1126.
- [243] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 390–395.
- [244] T. Ray, "Constrained robust optimal design using a multiobjective evolutionary algorithm," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 419–424.
- [245] T. E. Revello and R. McCartney, "Generating war game strategies using a genetic algorithm," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1086–1091.
- [246] R. G. Reynolds and A. Lazar, "Simulating the evolution of the archaic states," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 861–866.
- [247] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1098–1102.

- [248] J. J. Rowland and J. Taylor, "Adaptive denoising in spectral analysis by genetic programming," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 133–138.
- [249] T. P. Runarsson and X. Yao, "Continuous selection and self-adaptive evolution strategies," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 279–284.
- [250] N. Rychtycky 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 855–860.
- [251] N. Sadati and S. Kuchakkhani, "Genetic approach to pole placement by static output feedback," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1174–1179.
- [252] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 372–377.
- [253] R. Salomon, "The force model: Reducing the complexity by reformulating the problem," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1498–1503.
- [254] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 360–365.
- [255] R. Santana and H. Muehlenbein, "Blocked stochastic sampling versus estimation of distribution algorithms," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1390–1395.
- [256] I. Sarafis, A. M. S. Zalzal, and P. Trinder, "A genetic rule-based data clustering toolkit," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1238–1243.
- [257] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1432–1437.
- [258] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 747–752.
- [259] L. Schoofs and B. Naudts, "Swarm intelligence on the binary constraint satisfaction problem," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1444–1449.

- [260] M. Schreyer and G. R. Raidl, "Letting ants labeling point features," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1564–1569.
- [261] A. K. Seth, "Distinguishing adaptive from non-adaptive evolution using ashby's law of requisite variety," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1163–1168.
- [262] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1682–1687.
- [263] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 79–84.
- [264] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 968–973.
- [265] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1360–1365.
- [266] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1033–1038.
- [267] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1348–1353.
- [268] K. Socha and M. Kisiel-Dorohinicki, "Agent-based evolutionary multiobjective optimisation," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 109–114.
- [269] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 413–418.
- [270] A. Song, V. Ciesielski, and H. Williams, "Texture classifiers generated by genetic programming," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 243–248.
- [271] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1751–1756.

- [272] K. O. Stanley and R. Miikkulainen, "Efficient evolution of neural network topologies," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1757–1762.
- [273] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 771–776.
- [274] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1830–1835.
- [275] R. Subbu and A. C. Sanderson, "Network performance of distributed coevolutionary agents," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1414–1419.
- [276] K. sung Hwang and S. bae Cho, "Evolving diverse hardware using speciated genetic algorithm," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 437–442.
- [277] A. Sutcliffe, W.-C. Chang, and R. Neville, "Optimizing system requirements with evolutionary computation," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 495–499.
- [278] N. Svargard, 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 2006–2010.
- [279] Y. Takenaka and A. Hashimoto, "Dna computing by competitive hybridization for maximum satisfiability problem," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 472–476.
- [280] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1272–1277.
- [281] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 908–913.
- [282] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 31–36.
- [283] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1302–1307.

- [284] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 73–78.
- [285] A. Tarakanov and V. Skormin, "Pattern recognition by immunocomputing," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 938–943.
- [286] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 729–734.
- [287] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1988–1993.
- [288] D. Thierens, "Adaptive mutation rate control schemes in genetic algorithms," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 980–985.
- [289] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 121–126.
- [290] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 37–42.
- [291] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1958–1963.
- [292] M. Toussaint and C. Igel, "Neutrality: A necessity for self-adaptation," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1354–1359.
- [293] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 506–511.
- [294] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1636–1641.
- [295] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1290–1295.

- [296] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 169–174.
- [297] —, “Evolutionary diffusion optimization, part ii: Performance assessment,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1284–1289.
- [298] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 546–551.
- [299] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 974–979.
- [300] E. Tuci, M. Quinn, and I. Harvey, “Evolving fixed-weight networks for learning robots,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1970–1975.
- [301] R. K. Ursem and T. Krink, “Genetic programming with smooth operators for arithmetic expressions: Diviplication and subditiion,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1372–1377.
- [302] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 623–628.
- [303] C. Valenzuela, “A simple evolutionary algorithm for multi-objective optimization (seamo),” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 717–722.
- [304] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1426–1431.
- [305] B. Verma and R. Ghosh, “A novel evolutionary neural learning algorithm,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1884–1889.
- [306] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1570–1575.
- [307] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1697–1702.

- [308] L. G. Volkert, “Levels of adaptation: Insights into survival in dynamic environments,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 139–144.
- [309] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1804–1809.
- [310] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 500–505.
- [311] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1763–1768.
- [312] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 523–528.
- [313] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1546–1551.
- [314] A. B. Watkins and L. C. Boggess, “A resource limited artificial immune classifier,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 926–931.
- [315] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 600–605.
- [316] M. Watts and N. Kasabov, “Evolutionary optimisation of evolving connectionist systems,” in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 606–610.
- [317] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 193–198.
- [318] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1278–1283.
- [319] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1775–1780.

- [320] C. Wen and R. C. Eberhart, "Genetic algorithm for logistics scheduling problem," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 512–516.
- [321] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 801–806.
- [322] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1600–1605.
- [323] J. Wiles and B. Tonkes, "Visualisation of hierarchical cost surfaces for evolutionary computing," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 157–162.
- [324] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 570–575.
- [325] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1528–1533.
- [326] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1314–1319.
- [327] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 214–219.
- [328] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1866–1871.
- [329] X. Xie, W. Zhang, and Z. Yang, "A dissipative particle swarm optimization," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1456–1461.
- [330] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1994–1999.
- [331] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 998–1002.

- [332] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1860–1865.
- [333] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1320–1325.
- [334] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1343–1347.
- [335] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 85–90.
- [336] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 2017–2022.
- [337] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1660–1665.
- [338] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 285–290.
- [339] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 25–30.
- [340] G. G. Yen and N. Nithianandan, "Facial feature extraction using genetic algorithm," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1895–1900.
- [341] B. Yuan, "Deterministic crowding, recombination and self-similarity," in *Proceedings of the 2002 Congress on Evolutionary Computation CEC2002*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1516–1521.
- [342] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 237–242.
- [343] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1739–1744.

- [344] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 1003–1008.
- [345] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 837–842.
- [346] 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*, D. B. Fogel, M. A. El-Sharkawi, X. Yao, G. Greenwood, H. Iba, P. Marrow, and M. Shackleton, Eds. IEEE Press, 2002, pp. 890–895.