Список литературы

- [1] Jin Yaochu, Okabe Tatsuya, Sendhoff Bernhard. Neural network regularization and ensembling using multi-objective evolutionary algorithms in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1–8IEEE Press 2004.
- [2] Farina Marco, Gobbi Massimiliano. A fuzzy-optima definition based Multiobjective optimization of a racing car tyre-suspension system in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):9–16IEEE Press 2004.
- [3] Coelho Rajan Filomeno, Bouillard Philippe. PAMUC II for Multicriteria Optimization of Mechanical Designs with Expert Rules in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):17–22IEEE Press 2004.
- [4] Smith Kevin, Everson Richard, Fieldsend Jonathan. Dominance Measures for Multi-Objective Simulated Annealing in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):23–30IEEE Press 2004.
- [5] Deugo Dwight, Ferguson Darrell. Evolution to the Xtreme: Evolving Evolutionary Strategies Using A Meta-Level Approach in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):31–38IEEE Press 2004.
- [6] Chen Ying, Goldberg David. Convergence Time for the Linkage Learning Genetic Algorithm in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):39–46IEEE Press 2004.
- [7] Arnold Dirk. An Analysis of Evolutionary Gradient Search in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):47–54IEEE Press 2004.
- [8] Dukkipati Ambedkar, Musti Narsimha Murty, Bhatnagar Shalabh. Cauchy Annealing Schedule: An Annealing Schedule for Boltzmann Selection Scheme in Evolutionary Algorithms in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):55–62IEEE Press 2004.
- Kobayashi Yoko, Aiyoshi Eitaro. Optimization Algorithm Using Multi-Agents and Reinforcement Learning in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):63–68IEEE Press 2004.
- [10] Tavares Jorge, Pereira Francisco, Costa Ernesto. Understanding the Role of Insertion and Correction in the Evolution of Golomb Rulers in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):69–76IEEE Press 2004.
- [11] Sheng Weiguo, Liu Xiaohui. A Hybrid Algorithm for K-medoid Clustering of Large Data Sets in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):77–82IEEE Press 2004.
- [12] Bernstein Yaniv, Li Xiaodong, Ciesielski Vic, Song Andy. Multiobjective Parsimony Enforcement for Superior Generalisation Performance in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):83–89IEEE Press 2004.
- [13] Hu Xiaohui, Shi Yuhui, Eberhart Russell. Recent Advances in Particle Swarm in *Proceedings* of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):90–97IEEE Press 2004.
- [14] Parrott Daniel, Li Xiaodong. A Particle Swarm Model for Tracking Multiple Peaks in a Dynamic Environment using Speciation in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):98–103IEEE Press 2004.
- [15] O'Neill Michael, Brabazon Anthony, Adley Catherine. The Automatic Generation of Programs for Classification Problems with Grammatical Swarm in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):104–110IEEE Press 2004.

- [16] Dozier Gerry V., Brown Douglas, Hurley John, Cain Krystal. Vulnerability Analysis of AIS-Based Intrusion Detection Systems via Genetic and Particle Swarm Red Teams in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):111–116IEEE Press 2004.
- [17] Kendall Graham, Spoerer Kristian. Scripting the Game of Lemmings with a Genetic Algorithm in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):117–124IEEE Press 2004.
- [18] Denzinger Joerg, Chan Ben, Gates Darryl, Loose Kevin, Buchanan John. Evolutionary behavior testing of commercial computer games in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):125–132IEEE Press 2004.
- [19] Corno Fulvio, Sanchez Ernesto, Squillero Giovanni. On The Evolution of Corewar Warriors in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):133–138IEEE Press 2004.
- [20] Cole Nicholas, Louis Sushil, Miles Chris. Using a Genetic Algorithm to Tune First-Person Shooter Bots in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):139–145IEEE Press 2004.
- [21] Spieth Christian, Streichert Felix, Speer Nora, Zell Andreas. Utilizing an Island Model for EA to Preserve Solution Diversity for Inferring Gene Regulatory Networks in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):146–151IEEE Press 2004.
- [22] Spieth Christian, Streichert Felix, Speer Nora, Zell Andreas. A Memetic Inference Method for Gene Regulatory Networks Based on S-Systems in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):152–157IEEE Press 2004.
- [23] Rowland Jem. On Genetic Programming and Knowledge Discovery in Transcriptome Data in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):158– 165IEEE Press 2004.
- [24] Bleuler Stefan, Prelic Amela, Zitzler Eckart. An EA Framework for Biclustering of Gene Expression Data in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):166–173IEEE Press 2004.
- [25] Ji Zhaowang, Chen Anthony, Subprasom Kitti. Finding Multi-Objective Paths in Stochastic Networks: A Simulation-based Genetic Algorithm Approach in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):174–180IEEE Press 2004.
- [26] Chen Anthony, Chootinan Piya, Pravinvongvuth Surachet. An Evolutionary Approach for Finding Optimal Automatic Vehicle Identification Reader Locations in Transportation Networks in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):181– 187IEEE Press 2004.
- [27] Sato Hiroyuki, Aguirre Hernan, Tanaka Kiyoshi. Local Dominance Using Polar Coordinates to Enhance Multiobjective Evolutionary Algorithms in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):188–195IEEE Press 2004.
- [28] Aguirre Hernan, Tanaka Kiyoshi. Insights on Properties of Multiobjective MNK-Landscapes in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):196–203IEEE Press 2004.
- [29] Parsopoulos Konstantinos, Tasoulis Dimitris, Pavlidis Nicos, Plagianakos Vassilis, Vrahatis Michael. Vector Evaluated Differential Evolution for Multiobjective Optimization in *Proceedings* of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):204–211IEEE Press 2004.
- [30] Mostaghim Sanaz, Hoffmann Michael, Koenig Peter H., Frauenheim Thomas, Teich Juergen. Molecular Force Field Parametrization using Multi-Objective Evolutionary Algorithms in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):212– 219IEEE Press 2004.

- [31] Weinberg Benjamin, Talbi El-Ghazali. NFL theorem is unusable on structured classes of problems in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):220–226IEEE Press 2004.
- [32] English Thomas. No More Lunch: Analysis of Sequential Search in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):227–234IEEE Press 2004.
- [33] Koeppen Mario. No-Free-Lunch Theorems and the Diversity of Algorithms in *Proceedings of the* 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):235–241IEEE Press 2004.
- [34] Chow Rick. Effects of Phenotypic Feedback and the Coupling of Genotypic and Phenotypic Spaces in Genetic Searches in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):242–249IEEE Press 2004.
- [35] Schonfeld Justin, Ashlock Daniel. Comparison of Robustness of Solutions Located by Evolutionary Computation and Other Search Algorithms in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):250–257IEEE Press 2004.
- [36] Greenwood Garrison. Differing Mathematical Perspectives of Genotype Space in Combinatorial Problems: Metric Spaces vs Pretopological Spaces in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):258–264IEEE Press 2004.
- [37] Bain Stuart, Thornton John, Sattar Abdul. Evolving Algorithms for Constraint Satisfaction in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):265–272IEEE Press 2004.
- [38] Dozier Gerry V.. Recurrent Distributed Constraint Satisfaction via Genetic and Evolutionary Societies of Hill-Climbers in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):273–279IEEE Press 2004.
- [39] Yuchi Ming, Kim Jong-Hwan. Grouping-based Evolutionary Algorithm: Seeking Balance Between Feasible and Infeasible Individuals of Constrained Optimization Problems in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):280–287IEEE Press 2004.
- [40] Venkatraman Sangameswar, Yen Gary. A Simple Elitist Genetic Algorithm for Constrained Optimization in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):288–295IEEE Press 2004.
- [41] Simionescu P. A., Beale D. G., Dozier Gerry V.. Constrained Optimization Problem Solving Using Estimation of Distribution Algorithms in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):296–302IEEE Press 2004.
- [42] Alkhalifah Yaser, Wainwright Roger. A Genetic Algorithm Applied to Graph Problems Involving Subsets of Vertices in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):303–308IEEE Press 2004.
- [43] Katare Santhoji, Kalos Alex, West David. A Hybrid Swarm Optimizer for Efficient Parameter Estimation in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):309–315IEEE Press 2004.
- [44] Cui Zhihua, Zeng Jianchao, Cai Xingjuan. A New Stochastic Particle Swarm Optimizer in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):316–319IEEE Press 2004.
- [45] Shuyuan Yang, Min Wang, Licheng Jiao. A Quantum Particle Swarm Optimization in *Proceedings* of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):320–324IEEE Press 2004.
- [46] Sun Jun, Feng Bin, Xu Wenbo, Liu Jing, Bao Ling. Particle Swarm Optimization with Particles Having Quantum Behavior in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):325–331IEEE Press 2004.

- [47] Krink Thiemo, Filipic Bogdan, Fogel Gary B., Thomsen Rene. Noisy Optimization Problems A Particular Challenge for Differential Evolution? in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):332–339IEEE Press 2004.
- [48] Kennedy James. Probability and Dynamics in the Particle Swarm in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):340–347IEEE Press 2004.
- [49] Chong Siang Yew, Yao Xin. The Impact of Noise on Iterated Prisoner's Dilemma with Multiple Levels of Cooperation in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):348–355IEEE Press 2004.
- [50] Franken Nelis, Engelbrecht Andries. PSO approaches to co-evolve IPD strategies in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):356–363IEEE Press 2004.
- [51] Hingston Philip, Kendall Graham. Learning versus Evolution in Iterated Prisoner's Dilemma in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):364–372IEEE Press 2004.
- [52] Mark Alexandra, Sendhoff Bernhard, Wersing Heiko. A Decision Making Framework for Game Playing Using Evolutionary Optimization and Learning in *Proceedings of the 2004 IEEE Congress* on Evolutionary Computation(Portland, Oregon):373–380IEEE Press 2004.
- [53] Ashlock Daniel, Kim Eun, von Roeschlaub Warren. Fingerprints: Enabling Visualization and Automatic Analysis of Strategies for Two Player Games in *Proceedings of the 2004 IEEE Congress* on Evolutionary Computation(Portland, Oregon):381–387IEEE Press 2004.
- [54] Sun Xiaolu, Just Winfried. Evolution of Strategies in Modified Sequential Assessment Games in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):388–394IEEE Press 2004.
- [55] Parmee Ian, Abraham Johnson. Supporting Implicit Learning via the Visualisation of COGA Multi-objective Data in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):395–402IEEE Press 2004.
- [56] Hernandez-Aguirre Arturo, Botello-Rionda Salvador, Coello-Coello Carlos. PASSSS: An Implementation of a Novel Diversity Strategy for Handling Constraints in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):403–410IEEE Press 2004.
- [57] Kicinger Rafal, Arciszewski Tomasz, De Jong Kenneth. Morphogenesis and Structural Design: Cellular Automata Representations of Steel Structures in Tall Buildings in *Proceedings of the* 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):411–418IEEE Press 2004.
- [58] Bryden Kenneth, Ashlock Daniel, McCorkle Douglas. An Application of Graph Based Evolutionary Algorithms for Diversity Preservation in *Proceedings of the 2004 IEEE Congress* on Evolutionary Computation(Portland, Oregon):419–426IEEE Press 2004.
- [59] Suram Sunil, Bryden Kenneth, Ashlock Daniel. Quantitative Trait Loci based Solution of an Inverse Radiation Heat Transfer Problem in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):427–432IEEE Press 2004.
- [60] Dorris Nathan, Carnahan Brian, Orsini Luke, Kuntz Lois-Ann. Interactive Evolutionary Design of Anthropomorphic Symbols in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):433–440IEEE Press 2004.
- [61] Ishibuchi Hisao, Narukawa Kaname. Performance Evaluation of Simple Multiobjective Genetic Local Search Algorithms on Multiobjective 0/1 Knapsack Problems in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):441–448IEEE Press 2004.
- [62] Aguirre Hernan, Tanaka Kiyoshi. Effects of Elitism and Population Climbing on Multiobjective MNK-Landscapes in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):449–456IEEE Press 2004.

- [63] Dunn Enrique, Olague Gustavo, Lutton Evelyne, Schoenauer Marc. Pareto Optimal Sensing Strategies for an Active Vision System in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):457–463IEEE Press 2004.
- [64] Yun Yeboon, Nakayama Hirotaka, Arakawa Masao. Fitness Evaluation using Generalized Data Envelopment Analysis in MOGA in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):464–471IEEE Press 2004.
- [65] Nguyen Xuan Hoai, Ian McKay Robert. An Investigation on the Roles of Insertion and Deletion Operators in Tree Adjoining Grammar Guided Genetic Programming in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):472–477IEEE Press 2004.
- [66] Shan Yin, McKay Robert I., Baxter Rohan, Abbass Hussein, Essam Daryl, Nguyen Hoai. Grammar Model-based Program Evolution in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):478–485IEEE Press 2004.
- [67] Tomassini Marco, Vanneschi Leonardo, Cuendet Jerome, Fernandez Francisco. A New Technique for Dynamic Size Populations in Genetic Programming in *Proceedings of the 2004 IEEE Congress* on Evolutionary Computation(Portland, Oregon):486–493IEEE Press 2004.
- [68] Ciesielski Vic, Li Xiang. Experiments with Explicit For-loops in Genetic Programming in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):494– 501IEEE Press 2004.
- [69] Leon Elizabeth, Nasraoui Olfa, Gomez Jonatan. Anomaly Detection Based on Unsupervised Niche Clustering with Application to Network Intrusion Detection in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):502–508IEEE Press 2004.
- [70] Teredesai Ankur, Govindaraju Venu. Issues in Evolving GP based Classifiers for a Pattern Recognition Task in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):509–515IEEE Press 2004.
- [71] Ouellette Robert, Browne Matthew, Hirasawa Kotaro. Genetic Algorithm Optimization of a Convolutional Neural Network for Autonomous Crack Detection in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):516–521IEEE Press 2004.
- [72] Ashburn Trent, Bonabeau Eric. Interactive Inversion of Financial Markets Agent-Based Models in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):522–529IEEE Press 2004.
- [73] Devicharan Deepak, Mohan Chilukuri. Particle Swarm Optimization with Adaptive Linkage Learning in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):530–535IEEE Press 2004.
- [74] Cagnina Leticia, Esquivel Susana, Gallard Raul. Particle Swarm Optimization for Sequencing Problems: A Case Study in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):536–541IEEE Press 2004.
- [75] Liu Yu, Qin Zheng, He Xingshi. Supervisor-Student Model in Particle Swarm Optimization in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):542– 547IEEE Press 2004.
- [76] Mohais Arvind, Ward Christopher, Posthoff Christian. Randomized Directed Neighborhoods with Edge Migration in Particle Swarm Optimization in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):548–555IEEE Press 2004.
- [77] Castillo Flor, Sweeney Jeff, Zirk Wayne. Using Evolutionary Algorithms to Suggest Variable Transformations in Linear Model Lack-of-Fit Situations in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):556–560IEEE Press 2004.
- [78] Kordon Arthur, Lue Ching-Tai. Symbolic Regression Modeling of Blown Film Process Effects in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):561–568IEEE Press 2004.

- [79] Filipic Bogdan, Robic Tea. A Comparative Study of Coolant Flow Optimization on a Steel Casting Machine in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):569–573IEEE Press 2004.
- [80] Jones Philip, Tiwari Ashutosh, Roy Rajkumar, Corbett John. Optimisation of the High Efficiency Deep Grinding Process with Fuzzy Fitness Function and Constraints in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):574–581IEEE Press 2004.
- [81] Corne David, Pridgeon Carey. Investigating Issues in the Reconstructability of Genetic Regulatory Networks in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):582–589IEEE Press 2004.
- [82] Cho Sung-Bae, Park Chanho. Speciated GA for Optimal Ensemble Classifiers in DNA Microarray Classification in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):590–597IEEE Press 2004.
- [83] Deschenes Alain, Wiese Kay C.. Using Stacking-Energies (INN and INN-HB) for Improving the Accuracy of RNA Secondary Structure Prediction with an Evolutionary Algorithm A Comparison to Known Structures in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):598–606IEEE Press 2004.
- [84] Fogel Gary B., Weekes Dana G., Sampath Rangarajan, Ecker David J.. Parameter Optimization of an Evolutionary Algorithm for RNA Structure Discovery in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):607–613IEEE Press 2004.
- [85] Kotani Manabu, Kato Daisuke. Feature Extraction Using Coevolutionary Genetic Programming in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):614– 619IEEE Press 2004.
- [86] Chan Kit Yan, Aydin Emin, Fogarty Terry. An Empirical Study on the Performance of Factorial Design Based Crossover on Parametrical Problems in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):620–627IEEE Press 2004.
- [87] Zou Yi, Zhuang Zhenquan, Chen Huanhuan. HW-SW Partitioning Based on Genetic Algorithm in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):628–633IEEE Press 2004.
- [88] Hong Jin-Hyuk, Cho Sung-Bae. Evolution of Emergent Behaviors for Shooting Game Characters in Robocode in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):634–638IEEE Press 2004.
- [89] de Garis Hugo, Batty Thayne. Robust, Reversible, Nano-Scale, Femto-Second-Switching Circuits and their Evolution in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):639–645IEEE Press 2004.
- [90] Hatanaka Toshiharu, Kawaguchi Yoshio, Uosaki Katsuji. Nonlinear System Identification Based on Evolutionary Fuzzy Modeling in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):646–651IEEE Press 2004.
- [91] Brabazon Anthony, Silva Arlindo, de Sousa Tiago Ferra, O'Neill Michael, Matthews Robin, Costa Ernesto. Investigating Organizational Strategic Inertia Using a Particle Swarm Model in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):652–659IEEE Press 2004.
- [92] Gutierrez Celia. Heuristics in a General Scheduling Problem in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):660–665IEEE Press 2004.
- [93] Gao Wei. Fast Immunized Evolutionary Programming in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):666–670IEEE Press 2004.
- [94] Cohen David. Using SAT Scores as Predictors for Future Academic Success in *Proceedings of the* 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):671–677IEEE Press 2004.

- [95] Chung-Yuan Huang, Chuen-Tsai Sun. Self-Adaptive Routing Based on Learning Classifier Systems in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):678–682IEEE Press 2004.
- [96] Eto Shinji, Hirasawa Kotaro, Hu Jinglu. Functional Localization of Genetic Network Programming and its Application to a Pursuit Problem in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):683-690IEEE Press 2004.
- [97] Bandte Oliver. Visualizing Information in an Interactive Evolutionary Design Process in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):691–698IEEE Press 2004.
- [98] De San Pedro Maria, Pandolfi Daniel, Villagra Andrea, Lasso Marta, Gallard Raul. Effect of Crossover Operators under Multirecombination: Weighted Tardiness, a Test Case in *Proceedings* of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):699-705IEEE Press 2004.
- [99] Zheng Jinhua, Ling Charles X., Shi Zhongzhi, Xie Yong. Some Discussions about MOGAs: Individual Relations, Non-dominated Set, and Application on Automatic Negotiation in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):706–712IEEE Press 2004.
- [100] Nakagoe Hiroshi, Hirasawa Kotaro, Hu Jinglu. Genetic Network Programming with Automatically Generated Variable Size Macro Nodes in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):713–719IEEE Press 2004.
- [101] Sastry Kumara, Pelikan Martin, Goldberg David. Efficiency Enhancement of Genetic Algorithms via Building-Block-Wise Fitness Estimation in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):720–727IEEE Press 2004.
- [102] Kleeman Mark, Day Richard, Lamont Gary. Multi-Objective Evolutionary Search Performance with Explicit Building-Block Sizes for NPC Problems in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):728–735IEEE Press 2004.
- [103] Ferreira Tiago, Vasconcelos Germano, Adeodato Paulo. A Hybrid Intelligent System Approach for Improving the Prediction of Real World Time Series in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):736–743IEEE Press 2004.
- [104] Chen Jun, Wineberg Mark. Enhancement of the Shifting Balance Genetic Algorithm for Highly Multimodal Problems in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):744–751IEEE Press 2004.
- [105] Hotz Peter Eggenberger. Comparing direct and developmental encoding schemes in artificial evolution: A case study in evolving lens shapes in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):752–757IEEE Press 2004.
- [106] Osmera Pavel. Evolvable Controllers with Hierarchical Structure in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):758–765IEEE Press 2004.
- [107] Parker Gary, Blumenthal Joseph. Varying Sample Sizes for the Co-Evolution of Heterogeneous Agents in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):766-771IEEE Press 2004.
- [108] Hou Haiyu, Dozier Gerry V.. Comparing Performance of Binary-Coded and Constraint-Based Detectors in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):772–777IEEE Press 2004.
- [109] Chow Chi, Tsui Hung. Autonomous Agent Response Learning by a Multi-Species Particle Swarm Optimization in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):778–785IEEE Press 2004.

- [110] Daneshyari Moayed, Yen Gary. Talent Based Social Algorithm for Optimization in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):786–791IEEE Press 2004.
- [111] S. Baskar, Suganthan Ponnuthurai Nagaratnam. A Novel Concurrent Particle Swarm Optimization (CPSO) in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):792–796IEEE Press 2004.
- [112] Isaacs Jason, Foo Simon. Optimized Wavelet Hand Pose Estimation for American Sign Language Recognition in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):797–802IEEE Press 2004.
- [113] Wu Zhijian, Tang Zhilong, Zou Jun, Kang Lishan, Li Mingbiao. An Evolutionary Algorithm for Solving Parameter Identification Problems in Elliptic Systems in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):803–808IEEE Press 2004.
- [114] Eskridge Brent, Hougen Dean. Imitating Success: A Memetic Crossover Operator for Genetic Programming in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):809–815IEEE Press 2004.
- [115] de Garis Hugo, Batty Thayne. "MULTI-MOD": A PC Based Software System for Handling the Interconnectivity and Neural Signaling of an Artificial brain containing 10,000 evolved neural net modules in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):816–819IEEE Press 2004.
- [116] Shuyuan Yang, Min Wang, Licheng Jiao. A Novel Quantum Evolutionary Algorithm And Its Application in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):820–826IEEE Press 2004.
- [117] Ando Shin, Iba Hitoshi. Estimation of Gene Network using Real-coded GA and Robustness Analysis in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):827–834IEEE Press 2004.
- [118] Gordon Scott, Matley Zach. Evolving Sparse Direction Maps for Maze Pathfinding in *Proceedings* of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):835–838IEEE Press 2004.
- [119] Oh Jae, Volper Dimitri. Design of Rationality-based Computing Middleware: A Preliminary Study in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):839–846IEEE Press 2004.
- [120] Augugliaro Antonino, Dusonchet Luigi, Favuzza Salvatore, Sanseverino Eleonora Riva. A Fuzzy-Logic based Evolutionary Multiobjective Approach for Automated Distribution Networks Management in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):847–854IEEE Press 2004.
- [121] Kimbrough Steven, Lu Ming, Safavi Soofi. Exploring a Financial Product Model with a Two-Population Genetic Algorithm in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):855–862IEEE Press 2004.
- [122] Neal Mark, Labrosse Frederic. Rotation-invariant appearance based maps for robot navigation using an artificial immune network algorithm in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):863–870IEEE Press 2004.
- [123] Sanchez Ernesto, Squillero Giovanni, Violante Massimo. A Local Analysis of the Genotype-Fitness Mapping in Hardware Optimization Problems in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):871–878IEEE Press 2004.
- [124] Esquivel Susana, Garcia Marcos, Leguizamon Guillermo, Ribba Maximiliano. A Comparison of Two Mutation Operators for the Path Planning Problem in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):879–883IEEE Press 2004.

- [125] Uosaki Katsuji, Kimura Yuuya, Hatanaka Toshiharu. Evolution Strategies Based Particle Filters for State and Parameter Estimation of Nonlinear Models in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):884–890IEEE Press 2004.
- [126] Sinka Mark, Corne David. Evolving Document Features for Web Document Clustering: A Feasability Study in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):891–897IEEE Press 2004.
- [127] Yong-Duk Kim, Jong-Hwan Kim, Yong-Jae Kim. Behavior Selection and Learning for Synthetic Character in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):898–903IEEE Press 2004.
- [128] Neumann Frank. Expected Runtimes of Evolutionary Algorithms for the Eulerian Cycle Problem in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):904–910IEEE Press 2004.
- [129] Chakraborty Uday. Analysis of Encoding in 1+1-EA in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):911-917IEEE Press 2004.
- [130] Salomon Ralf. The Curse of High-Dimensional Search Spaces: Observing Premature Convergence in Unimodal Functions in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):918–923IEEE Press 2004.
- [131] Verel Sebastien, Collard Philippe, Clergue Manuel. Scuba Search: when selection meets innovation in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):924–931IEEE Press 2004.
- [132] Streichert Felix, Ulmer Holger, Zell Andreas. Evaluating a Hybrid Encoding and Three Crossover Operators on the Constrained Portfolio Selection Problem in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):932–939IEEE Press 2004.
- [133] Korczak Jerzy J., Lipinski Piotr. Evolutionary building of stock trading experts in a real-time system in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):940–947IEEE Press 2004.
- [134] Hayward Serge. Setting up Performance Surface of an Artificial Neural Network With Genetic Algorithm Optimization: in Search of an Accurate and Profitable Prediction for Stock Trading in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):948–954IEEE Press 2004.
- [135] Tanaka-Yamawaki Mieko, Motoyama Tomohiro. Predicting the Tick-wise Price Fluctuations by Means of Evolutional Computation in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):955–958IEEE Press 2004.
- [136] Krohling Renato A., Hoffmann Frank, dos Santos Coelho Leandro. Co-evolutionary Particle Swarm Optimization for Min-Max Problems using Gaussian Distribution in *Proceedings of the* 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):959–964IEEE Press 2004.
- [137] Krusienski Dean, Jenkins W. Kenneth. Particle Swarm Optimization for Adaptive IIR Filter Structures in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):965–970IEEE Press 2004.
- [138] Slade Wayne, Ressom Habtom, Musavi Mohamad, Miller Richard. Ocean Color Inversion by Particle Swarm Optimization in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):971–977IEEE Press 2004.
- [139] Miguelanez Emilio, Zalzala Ali, Tabor Paul. Evolving Neural Networks using Swarm Intelligence for Binmap Classification in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):978–985IEEE Press 2004.
- [140] Yannakakis Georgios, Levine John, Hallam John. An Evolutionary Approach for Interactive Computer Games in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):986–993IEEE Press 2004.

- [141] Fletcher Jeffrey, Zwick Martin. Hamilton's Rule Applied to Reciprocal Altruism in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):994–1000IEEE Press 2004.
- [142] Daoud Mohammed, Kharma Nawwaf, Haidar Ali, Popoola Julius. Ayo, the Awari Player, or How Better Representation Trumps Deeper Search in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1001–1006IEEE Press 2004.
- [143] Lucas Simon. Cellz: A Simple Dynamic Game for Testing Evolutionary Algorithms in *Proceedings* of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):1007–1014IEEE Press 2004.
- [144] Zhang Guang-Zheng, Huang De-Shuang. Radial Basis Function Neural Network Optimized by GA for Soybean Protein Sequence Residue Spatial Distance Prediction in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1015–1019IEEE Press 2004.
- [145] Day Richard, Lamont Gary. Force Field Approximations Using Artificial Neural Networks in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1020–1027IEEE Press 2004.
- [146] Yang Jinn-Moon, Shen Tsai-Wei. A Pharmacophore-Based Evolutionary Approach for Screening Estrogen Receptor Antagonists in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1028–1035IEEE Press 2004.
- [147] Lamont Gary, Esslinger Mark, Ewing Robert, Abdel-Aty-Zohdy Hoda. An Artificial Immune System Strategy for Robust Chemical Spectra Classification via Distributed Heterogeneous Sensors in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1036–1043IEEE Press 2004.
- [148] Timmis Jonathan, Edmonds Camilla, Kelsey Johnny. Assessing the Performance of Two Immune Inspired Algorithms and a Hybrid Genetic Algorithm for Function Optimisation in *Proceedings* of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):1044–1051IEEE Press 2004.
- [149] Garrett Simon. Parameter-Free, Adaptive Clonal Selection in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1052–1058IEEE Press 2004.
- [150] de Paula Fabricio, de Castro Leandro, de Geus Paulo. An Intrusion Detection System Using Ideas from the Immune System in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1059–1066IEEE Press 2004.
- [151] Hamaker Janna, Boggess Lois. Non-Euclidean Distance Measures in AIRS, an Artificial Immune Classification System in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1067–1073IEEE Press 2004.
- [152] Nicosia Giuseppe, Cutello Vincenzo, Pavone Mario. An Immune Algorithm with Hyper-Macromutations for the 2D Hydrophilic-Hydrophobic Model in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1074–1080IEEE Press 2004.
- [153] Ji Zhou, Dasgupta Dipankar. Augmented Negative Selection Algorithm with Variable-Coverage Detectors in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1081–1088IEEE Press 2004.
- [154] Anderson Carl, Bonabeau Eric, Scott John. Evolutionary testing as both a testing and redesign tool: a study of a shipboard firemain's valve and pump controls in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1089–1097IEEE Press 2004.
- [155] Malinchik Sergey, Orme Belinda, Rothermich Joseph, Bonabeau Eric. Interactive Exploratory Data Analysis in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1098–1104IEEE Press 2004.

- [156] Fernandez Elsa, Grana Manuel, Ruiz-Cabello Jesus. An Instantaneous Memetic Algorithm for Illumination Correction in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1105–1110IEEE Press 2004.
- [157] Bartz-Beielstein Thomas, Markon Sandor. Tuning Search Algorithms for Real-World Applications: A Regression Tree Based Approach in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1111–1118IEEE Press 2004.
- [158] Salomon Ralf. The Force Model: Concept, Behavior, Interpretation in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1119–1126IEEE Press 2004.
- [159] Lee Greg, Bulitko Vadim, Levner Ilya. Automated Selection of Vision Operator Libraries with Evolutionary Algorithms in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1127–1134IEEE Press 2004.
- [160] Dahal Keshav P., Siewierski Tomasz A., Galloway Stuart J., Burt Graeme M., McDonald Jim R.. An Evolutionary Generation Scheduling in an Open Electricity Market in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1135–1142IEEE Press 2004.
- [161] Lasso Marta, Pandolfi Daniel, De San Pedro Maria, Villagra Andrea, Gallard Raul. Solving Dynamic Tardiness Problems in Single Machine Environments in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1143–1149IEEE Press 2004.
- [162] Tsutsui Shigeyoshi, Wilson Gordon. Solving Capacitated Vehicle Routing Problems Using Edge Histogram Based Sampling Algorithms in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1150–1157IEEE Press 2004.
- [163] Aldasht Mohammed, Ortega Julio, Puntonet Carlos G., Diaz Antonio F.. A Genetic Exploration of Dynamic Load Balancing Algorithms in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1158–1163IEEE Press 2004.
- [164] Dandass Yoginder. Genetic List Scheduling for Soft Real-Time Parallel Applications in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1164–1171IEEE Press 2004.
- [165] Aleti Sree Harsha, de Garis Hugo. Evolutionary Algorithms Based on Machine Learning Accelerate Mathematical Function Optimization but not Neural Net Evolution in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1172–1177IEEE Press 2004.
- [166] Hu Jianjun, Goodman Erik. Wireless Access Point Configuration by Genetic Programming in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1178–1184IEEE Press 2004.
- [167] Burian Adrian, Takala Jarmo. Evolved Gate Arrays for Image Restoration in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1185–1192IEEE Press 2004.
- [168] Habib Sami, Parker Alice. Synthesizing Complex Multimedia Network Topologies Using An Evolutionary Approach in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1193–1200IEEE Press 2004.
- [169] Inoue Yutaka, Tohge Takahiro, Iba Hitoshi. Object Transportation by Two Humanoid Robots using Cooperative Learning in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1201–1208IEEE Press 2004.
- [170] Walker Reginald L.. Honeybee Search Strategies: Adaptive Exploration of an Information Ecosystem in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1209–1216IEEE Press 2004.

- [171] Daida Jason, Samples Michael, Hart Bryan, Halim Jeffry, Kumar Aditya. Demonstrating Constraints to Diversity with a Tunably Difficulty Problem for Genetic Programming in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1217–1224IEEE Press 2004.
- [172] Daida Jason, Ward David, Hilss Adam, Long Stephen, Hodges Mark. Visualizing the Loss of Diversity in Genetic Programming in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):1225-1232IEEE Press 2004.
- [173] Katada Yoshiaki, Ohkura Kazuhiro, Ueda Kanji. The Nei's Standard Genetic Distance in Artificial Evolution in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1233–1239IEEE Press 2004.
- [174] Hernandez German, Dasgupta Dipankar, Nino Fernando, Garcia Julian. On Geometric and Statistical Properties of the Attractors of a Generic Evolutionary Algorithm in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1240–1247IEEE Press 2004.
- [175] He Jun, Yao Xin, Zhang Qingfu. To Understand One-Dimensional Continuous Fitness Landscapes by Drift Analysis in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1248–1253IEEE Press 2004.
- [176] Di Pietro Anthony, While Lyndon, Barone Luigi. Applying Evolutionary Algorithms to Problems with Noisy, Time-consuming Fitness Functions in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1254–1261IEEE Press 2004.
- [177] Yang Shengxiang. Constructing Dynamic Test Environments for Genetic Algorithms Based on Problem Difficulty in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1262–1269IEEE Press 2004.
- [178] Schoenemann Lutz. The Impact of Population Sizes and Diversity on the Adaptability of Evolution Strategies in Dynamic Environments in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1270–1277IEEE Press 2004.
- [179] Tinos Renato, Carvalho Andre. A Genetic Algorithm with Gene Dependent Mutation Probability for Non-Stationary Optimization Problems in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1278–1285IEEE Press 2004.
- [180] Kang Lishan, Zhou Aimin, McKay Robert I., Li Yan, Kang Zhuo. Benchmarking Algorithms for Dynamic Travelling Salesman Problems in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1286–1292IEEE Press 2004.
- [181] Eriksson Roger, Olsson Bjorn. On the Performance of Evolutionary Algorithms with Life-time Adaptation in Dynamic Fitness Landscapes in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1293–1300IEEE Press 2004.
- [182] Bonino Dario, Corno Fulvio, Squillero Giovanni. Dynamic Optimization of Semantic Annotation Relevance in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1301–1308IEEE Press 2004.
- [183] Hernandez-Aguirre Arturo, Coello-Coello Carlos. Mutual Information-based Fitness Functions for Evolutionary Circuit Synthesis in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1309–1316IEEE Press 2004.
- [184] Sarif Bambang, Abd-El-Barr Mostafa, Sait Sadiq M., Al-Saiari Uthman. Fuzzified Ant Colony Optimization Algorithm for Efficient Combinational Circuits in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1317–1324IEEE Press 2004.
- [185] Cruz Alfredo. A Hybrid Deterministic/Genetic Test Generator to Improve Fault in *Proceedings* of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):1325–1330IEEE Press 2004.

- [186] Simsek Burak, Albayrak Sahin, Korth Alexander. Reinforcement Learning for Procurement Agents of the Factory of the Future in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1331–1337IEEE Press 2004.
- [187] Sedighi Kamran, Ashenayi Kaveh, Manikas Theodore, Tai Heng-Ming, Wainwright Roger. Autonomous Local Path-Planning for a Mobile Robot Using a Genetic Algorithm in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):1338–1345IEEE Press 2004.
- [188] Hati Subhas, Sengupta Somanth. A GA-Based Integrated Approach to Model-Assisted Matching and Pose Estimation for Automated Visual Inspection Applications in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1346–1353IEEE Press 2004.
- [189] Cohen David. EA-lect: An Evolutionary Algorithm for Constructing Logical Rules to Predict Election into Cooperstown in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1354–1361IEEE Press 2004.
- [190] Tongchim Shisanu, Yao Xin. Parallel Evolutionary Programming in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1362–1367IEEE Press 2004.
- [191] Santos Erinaldo, Ohishi Takaaki. A Hydro Unit Commitment Model Using Genetic Algorithm in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1368–1374IEEE Press 2004.
- [192] Ozcan Ender, Onbasioglu Esin. Genetic Algorithms for Parallel Code Optimization in *Proceedings* of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):1375–1381IEEE Press 2004.
- [193] Thomsen Rene. Multimodal Optimization Using Crowding-Based Differential Evolution in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1382–1389IEEE Press 2004.
- [194] Doctor Sheetal, Venayagamoorthy Ganesh, Gudise Venu. Optimal PSO for Collective Robotic Search Applications in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1390–1395IEEE Press 2004.
- [195] Pulido Gregorio Toscano, Coello-Coello Carlos. A Constraint-Handling Mechanism for Particle Swarm Optimization in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1396–1403IEEE Press 2004.
- [196] Mostaghim Sanaz, Teich Juergen. Covering Pareto-optimal Fronts by Subswarms in Multi-objective Particle Swarm Optimization in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1404–1411IEEE Press 2004.
- [197] Tasgetiren M. Fatih, Sevkli Mehmet, Liang Yun-Chia, Gencyilmaz Gunes. Particle Swarm Optimization Algorithm For Single Machine Total Weighted Tardiness Problem in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1412–1419IEEE Press 2004.
- [198] Fogel David B., Hays Timothy, Johnson Douglas. A Platform for Evolving Characters in Competitive Games in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1420–1426IEEE Press 2004.
- [199] Fogel David B.. Evolving Strategies in Blackjack in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1427–1434IEEE Press 2004.
- [200] Gordon Scott, Slocum Terrill. The Knight's Tour Evolutionary vs. Depth-First Search in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1435–1440IEEE Press 2004.
- [201] Miles Chris, Louis Sushil, Cole Nicholas, McDonnell John. Learning to Play Like a Human: Case Injected Genetic Algorithms for Strategic Computer Gaming in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1441–1448IEEE Press 2004.

- [202] Guo Zigang, Mak K.L.. A Heuristic GA for The Stochastic Vehicle Routing Problems with Soft Time Windows in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1449–1456IEEE Press 2004.
- [203] Wei Jyh-Da, Lee Der-Tsai. A New Approach to the Traveling Salesman Problem Using Genetic Algorithms with Priority Encoding in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1457–1464IEEE Press 2004.
- [204] Nagata Yuichi. Criteria for designing crossovers for TSP in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1465–1472IEEE Press 2004.
- [205] White Christopher, Yen Gary. A Hybrid Evolutionary Algorithm for Traveling Salesman Problem in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1473–1478IEEE Press 2004.
- [206] de la Cruz-Garcia Jesus Manuel, Risco-Martin Jose Luis, Herran-Gonzalez Alberto, Fernandez-Blanco Pablo. Hybrid Heuristic and Mathematical Programming in Oil Pipelines Networks in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1479–1486IEEE Press 2004.
- [207] Dimopoulos Christos. A Review of Evolutionary Multiobjective Optimization Applications in the Area of Production Research in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1487–1494IEEE Press 2004.
- [208] Wong Tony, Cote Pascal, Sabourin Robert. A Hybrid MOEA for the Capacitated Exam Proximity Problem in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1495–1501IEEE Press 2004.
- [209] Day Richard, Kleeman Mark, Lamont Gary. Multi-Objective fast messy Genetic Algorithm Solving Deception Problems in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1502–1509IEEE Press 2004.
- [210] Hernandez Julio Cesar, Isasi Pedro, Seznec Andre. On the design of state-of-the-art pseudorandom number generators by means of genetic programming in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1510–1516IEEE Press 2004.
- [211] Clark John A., Jacob Jeremy L., Stepney Susan. Searching for Cost Functions in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1517–1524IEEE Press 2004.
- [212] Fuller Joanne, Millan William, Dawson Ed. Multi-objective Optimisation of Bijective S-boxes in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1525–1532IEEE Press 2004.
- [213] Clark John A., Jacob Jeremy L., Stepney Susan. The Design of S-Boxes by Simulated annealing in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1533–1537IEEE Press 2004.
- [214] Oh Choong, Barlow Gregory. Autonomous Controller Design for Unmanned Aerial Vehicles using Multi-objective Genetic Programming in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1538–1545IEEE Press 2004.
- [215] Liu Hongwei, Iba Hitoshi. A Hierarchical Approach for Adaptive Humanoid Robot Control in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1546–1553IEEE Press 2004.
- [216] Walsh Paul, Fenton Pio. A High-Throughput Computing Environment for Job Shop Scheduling Genetic Algorithms in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1554–1560IEEE Press 2004.
- [217] Gonzalez Luis, Cannady James. A self-adaptive negative selection approach for anomaly detection in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1561–1568IEEE Press 2004.

- [218] Ulmer Holger, Streichert Felix, Zell Andreas. Evolution Strategies with Controlled Model Assistance in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1569–1576IEEE Press 2004.
- [219] Won Kok Sung, Ray Tapabrata. Performance of Kriging and Cokriging based Surrogate Models within the Unified Framework for Surrogate Assisted Optimization in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1577–1585IEEE Press 2004.
- [220] Zhou Zongzhao, Ong Yew Soon, Nair Prasanth B.. Hierarchical Surrogate-Assisted Evolutionary Optimization Framework in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1586–1593IEEE Press 2004.
- [221] Okabe Tatsuya, Jin Yaochu, Sendhoff Bernhard, Olhofer Markus. Voronoi-based Estimation of Distribution Algorithm for Multi-objective Optimization in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1594–1601IEEE Press 2004.
- [222] Doty David. Non-local Evolutionary Adaptation in Gridplants in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1602–1609IEEE Press 2004.
- [223] Johnson Rodney, Melich Michael, Michaelwicz Zbigniew, Schmidt Martin. Coevolutionary TEMPO Game in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1610–1617IEEE Press 2004.
- [224] Ashlock Daniel, Willson Stephen, Leahy Nicole. Coevolution and Tartarus in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1618–1624IEEE Press 2004.
- [225] O'Riordan Colm, Griffith Josephine, Newell John, Sorensen Humphrey. Co-evolution of Strategies for an N-player Dilemma in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1625–1630IEEE Press 2004.
- [226] Speer Nora, Spieth Christian, Zell Andreas. A Memetic Co-Clustering Algorithm for Gene Expression Profiles and Biological Annotation in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1631–1638IEEE Press 2004.
- [227] Piaseczny Wojciech, Suzuki Hideaki, Sawai Hidefumi. Chemical Genetic Programming Evolution of Amino Acid Rewriting Rules Used for Genotype-Phenotype Translation in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1639–1646IEEE Press 2004.
- [228] Seo Daekwan, Yasunaga Moritoshi, Kim Jung Hwan. A Computatioal Approach to Detect Transcritpion Regulatory Elements in Dictyostelium Discoideum in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1647–1653IEEE Press 2004.
- [229] Ding Shengchao, Liu Juan, Wu Chanle, Yang Qing. A genetic algorithm applied to optimal gene subset selection in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1654–1660IEEE Press 2004.
- [230] Eguchi Toru, Hirasawa Kotaro, Hu Jinglu, Markon Sandor. Elevator Group Supervisory Control Systems Using Genetic Network Programming in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1661–1667IEEE Press 2004.
- [231] Sanchez Javier J., Galan Manuel, Rubio Enrique. Genetic Algorithms and Cellular Automata: A New Architecture for Traffic Light Cycles Optimization in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1668–1674IEEE Press 2004.
- [232] Katsumata Yuji, Terano Takao. Cabling and Scheduling for Electric Power Plant Operation via TABU-BOA Algorithm in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1675–1682IEEE Press 2004.
- [233] Watanabe Isamu, Nodu Makoto. A Genetic Algorithm for Optimizing Switching Sequence of Service Restoration in Distribution Systems in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1683–1690IEEE Press 2004.

- [234] Ross Peter, Marin-Blazquez Javier G., Hart Emma. Hyper-heuristics applied to Class and Exam Timetabling problems in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1691–1698IEEE Press 2004.
- [235] Funes Pablo, Bonabeau Eric, Herve Jerome, Morieux Yves. Interactive Multi-Participant Task Allocation in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1699–1705IEEE Press 2004.
- [236] Pfaffmann Jeffrey, Bousmalis Konstantinos, Colombano Silvano. A Scouting-Inspired Evolutionary Algorithm in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1706–1712IEEE Press 2004.
- [237] Ashlock Daniel, Bryden Kenneth, Corns Steven. On Taxonomy of Evolutionary Computation Problems in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1713–1719IEEE Press 2004.
- [238] Gomez Jonatan. Self Adaptation of Operator Rates in Evolutionary Algorithms in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1720–1726IEEE Press 2004.
- [239] Gomez Jonatan. Evolution of Fuzzy Rule Based Classifiers in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1727–1734IEEE Press 2004.
- [240] Zhang Jian, Yuan Xiaohui, Buckles Bill. Subspace FDC for Sharing Distance Estimation in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1735–1742IEEE Press 2004.
- [241] Kobti Ziad, Reynolds Robert G., Kohler Tim. The Effect of Kinship Cooperation Learning Strategy and Culture on the Resilience of Social Systems in the Village Multi-Agent Simulation in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1743–1750IEEE Press 2004.
- [242] Peng Bin, Reynolds Robert G.. Cultural Algorithms: Knowledge Learning in Dynamic Environments in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1751–1758IEEE Press 2004.
- [243] Ho Nhu Binh, Tay Joc Cing. GENACE: An Efficient Cultural Algorithm to Solve the Flexible Job-Shop Problem in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1759–1766IEEE Press 2004.
- [244] Curran Dara, O'Riordan Colm. The Effect of Noise on the Performance of Cultural Evolution in Multi-Agent Systems in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1767–1773IEEE Press 2004.
- [245] Stephan Craig, Sullivan John. An Agent-Based Hydrogen Vehicle/Infrastructure Model in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1774–1779IEEE Press 2004.
- [246] Ostrowski David, Reynolds Robert G.. Using Cultural Algorithms to Evolve Strategies for Recessionary Markets in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1780–1785IEEE Press 2004.
- [247] Stoica Adrian, Arslan Tughrul, Keymeulen Didier, et al. Evolutionary Recovery of Electronic Circuits from Radiation Induced Faults in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1786–1793IEEE Press 2004.
- [248] Sait Sadiq M., Al-Ismail Muhammad. Enhanced Simulated Evolution Algorithm For Digital Circuit Design Yielding Faster Execution in a Larger Solution Space in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1794–1799IEEE Press 2004.
- [249] Harding Simon, Miller Julian. Evolution in materio: A Tone Discriminator In Liquid Crystal in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1800–1807IEEE Press 2004.

- [250] Hunter David. Some Lessons Learned on Constructing an Automated Testbench for Evolvable Hardware Experiments in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1808–1812IEEE Press 2004.
- [251] Oltean Mihai. Solving Even-Parity Problems using Traceless Genetic Programming in *Proceedings* of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):1813–1819IEEE Press 2004.
- [252] Blumenthal Joseph, Parker Gary. Punctuated Anytime Learning for Evolving Multi-Agent Capture Strategies in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1820–1827IEEE Press 2004.
- [253] Bajurnow Andrei, Ciesielski Vic. Layered Learning for Evolving Goal Scoring Behavior in Soccer Players in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1828–1835IEEE Press 2004.
- [254] Eberbach Eugene, Eberbach Andrew. On Designing CO\$T: A New Approach and Programming Environment for Distributed Problem Solving Based on Evolutionary Computation and Anytime Algorithms in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1836–1843IEEE Press 2004.
- [255] Ashlock Daniel, Lathrop James. Program Induction: Building a Wall in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1844–1850IEEE Press 2004.
- [256] Hartono Pitoyo, Hashimoto Shuji, Wahde Mattias. Labeled-GA with Adaptive Mutation Rate in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1851–1858IEEE Press 2004.
- [257] Ashlock Daniel, Oftelie Jessica. Simulation of Floral Specialization in Bees in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1859–1864IEEE Press 2004.
- [258] Kephart David, Lefevre Jeff. CodeGen: The Generation and Testing of DNA Code Words in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1865–1873IEEE Press 2004.
- [259] Khabzaoui Mohammed, Dhaenens Clarisse, Talbi El-Ghazali. A Multicriteria Genetic Algorithm to analyze DNA microarray data in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1874–1881IEEE Press 2004.
- [260] Nuser Maryam, Deaton Russell. A Probabilistic Analysis of in Vitro Selection of Independent DNA Words for Computation in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1882–1888IEEE Press 2004.
- [261] Neel Andrew, Garzon Max, Penumetsa Phani. Soundness and Quality of Semantic Retrieval in DNA-based Memories with Abiotic Data in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1889–1895IEEE Press 2004.
- [262] Wood David, Chen Junghuei. Fredkin Gate Circuits via Recombination Enzymes in *Proceedings* of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):1896–1900IEEE Press 2004.
- [263] Chiang Cheng-Hsiung, Chen Liang-Hsuan. A New Cellular Automaton: Five Elements Balance Chart and Its Application to Forest Industry Ecosystem in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1901–1908IEEE Press 2004.
- [264] Acan Adnan. Clonal Selection Algorithm with Operator Multiplicity in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1909–1915IEEE Press 2004.
- [265] Randall Marcus. Heuristics for Ant Colony Optimisation using the Generalised Assignment Problem in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1916–1923IEEE Press 2004.

- [266] Ippolito Mariano, Sanseverino Eleonora Riva, Vuinovich Ferruccio. Multiobjective Ant Colony Search Algorithm For Optimal Electrical Distribution System Strategical Planning in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):1924–1931IEEE Press 2004.
- [267] Annaluru Rajeev, Das Sanjoy, Pahwa Anil. Multi-Level Ant Colony Algorithm for Optimal Placement of Capacitors in Distribution Systems in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1932–1937IEEE Press 2004.
- [268] Pirzada Asad, Datta Amitava, McDonald Chris. Trusted Routing in Ad-hoc Networks using Pheromone Trails in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1938–1943IEEE Press 2004.
- [269] Mumford Christine. A Hierarchical Evolutionary Approach to Multi-Objective Optimization in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1944–1951IEEE Press 2004.
- [270] Branke Juergen, Schmeck Hartmut, Deb Kalyan, Maheshwar Reddy.S. Parallelizing Multi-Objective Evolutionary Algorithms: Cone Separation in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1952–1957IEEE Press 2004.
- [271] Grosan Crina. Improving the performance of evolutionary algorithms for the multiobjective 0/1 knapsack problem using epsilon -dominance in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1958–1963IEEE Press 2004.
- [272] Marwaha Shivanajay, Srinivasan Dipti, Tham Chen Khong, Vasilakos Athanasios. Evolutionary Fuzzy Multi-Objective Routing For Wireless Mobile Ad Hoc Networks in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1964–1971IEEE Press 2004.
- [273] Chan Kit Yan, Aydin Emin, Fogarty Terry. Parameterisation of Mutation in Evolutionary Algorithms Using the Estimated Main Effect of Genes in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1972–1979IEEE Press 2004.
- [274] Vesterstroem Jakob, Thomsen Rene. A Comparative Study of Differential Evolution, Particle Swarm Optimization, and Evolutionary Algorithms on Numerical Benchmark Problems in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1980–1987IEEE Press 2004.
- [275] Zhang Funing, Dozier Gerry V.. A Comparison of Distributed Restricted Recombination Operators for Genetic and Evolutionary Societies of Hill-Climbers: A DisACSP Perspective in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1988–1995IEEE Press 2004.
- [276] Ray Tapabrata, Venkatarayalu Neelakantam, Won Kok Sung, Chan Kian Ping. Study on the Behaviour and Implementation of Parent Centric Crossover within the Generalized Generation Gap Model in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):1996–2003IEEE Press 2004.
- [277] Paterlini Sandra, Krink Thiemo. High Performance Clustering with Differential Evolution in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2004–2011IEEE Press 2004.
- [278] Xie Xiao-Feng, Zhang Wen-Jun, Bi De-Chun. Handling Equality Constraints by Adaptive Relaxing Rule for Swarm Algorithms in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2012–2016IEEE Press 2004.
- [279] Xie Xiao-Feng, Zhang Wen-Jun, Bi De-Chun. Optimizing Semiconductor Devices by Self-organizing Particle Swarm in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2017–2022IEEE Press 2004.

- [280] Tasoulis Dimitris, Pavlidis Nicos, Plagianakos Vassilis, Vrahatis Michael. Parallel Differential Evolution in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2023–2029IEEE Press 2004.
- [281] Buzing P., Eiben A., Schut M., Toma T.. Cooperation and Communication in Evolving Artificial Societies in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2030–2037IEEE Press 2004.
- [282] Enee Gilles, Escazut Cathy. Evolution of Communication in a Genetic Based Multi-Agent System: Use Wise Resources in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2038–2044IEEE Press 2004.
- [283] Ashlock Daniel, Powers Brad. The Effect of Tag Recognition on Non-Local Adaptation in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2045—2051IEEE Press 2004.
- [284] Kendall Graham, Yaakob Razali, Hingston Philip. An Investigation of an Evolutionary Approach to the Opening of Go in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2052–2059IEEE Press 2004.
- [285] Ono Isao, Seike Yoshiaki, Morishita Ryohei, Ono Norihiko, Matsui Masahiko. An Evolutionary Algorithm Taking Account of Mutual Interactions among Substances for Inference of Genetic Networks in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2060–2067IEEE Press 2004.
- [286] Noman Nasimul, Okada Kouichi, Hosoyama Naoki, Iba Hitoshi. Use of Clustering to Improve the Layout of Gene Network for Visualization in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2068–2075IEEE Press 2004.
- [287] Paul Topon, Iba Hitoshi. Selection of the Most Useful Subset of Genes for Gene Expression-Based Classification in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2076–2083IEEE Press 2004.
- [288] Koduru Praveen, Das Sanjoy, Welch Stephen, Roe Judith L.. A Multi-objective GA-Simplex Hybrid Approach for Gene Regulatory Network Models in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2084–2091IEEE Press 2004.
- [289] Song Andy, Ciesielski Vic. Texture Analysis by Genetic Programming in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2092–2099IEEE Press 2004.
- [290] Jang Jun-Su, Han Kuk-Hyun, Kim Jong-Hwan. Face Detection using Quantum-inspired Evolutionary Algorithm in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2100–2106IEEE Press 2004.
- [291] Treptow Andre, Zell Andreas. Combining Adaboost Learning and Evolutionary Search to select Features for Real-Time Object Detection in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2107–2113IEEE Press 2004.
- [292] Miller Damon, Arguello Rodrigo, Greenwood Garrison. Evolving Artificial Neural Network Structures: Experimental Results for Biologically-Inspired Adaptive Mutations in *Proceedings* of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):2114–2119IEEE Press 2004.
- [293] Chen Hua, Feng Deng. An Effective Evolutionary Strategy for Bijective S-boxes in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2120–2123IEEE Press 2004.
- [294] Hernandez Julio Cesar, Isasi Pedro. New results on the genetic cryptanalysis of TEA and reduced-round versions of XTEA in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2124–2129IEEE Press 2004.

- [295] Nedjah Nadia, Mourelle Luiza. Secure Evolutionary Hardware for Public-Key Cryptosystems in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2130–2137IEEE Press 2004.
- [296] Seredynski Marcin, Bouvry Pascal. Block Cipher based on Reversible Cellular Automata in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):2138– 2143IEEE Press 2004.
- [297] Legg Shane, Hutter Marcus, Kumar Akshat. Tournament versus Fitness Uniform Selection in Proceedings of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):2144– 2151IEEE Press 2004.
- [298] Dorronsoro Bernabe, Alba Enrique, Giacobini Mario, Tomassini Marco. The Influence of Grid Shape and Asynchronicity on Cellular Evolutionary Algorithms in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2152–2158IEEE Press 2004.
- [299] Takahashi Osamu, Kobayashi Shigenobu. An Angular Distance Dependent Alternation Model for Real-Coded Genetic Algorithms in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2159–2165IEEE Press 2004.
- [300] Dengiz Orhan, Dozier Gerry V., Smith Alice E.. Non-deterministic Decoding with Memory to Enhance Precision in Binary-Coded Genetic Algorithms in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2166–2172IEEE Press 2004.
- [301] S. Baskar, Alphones A., Suganthan Ponnuthurai Nagaratnam. Concurrent PSO and FDR-PSO based reconfigurable Phase-Differentiated Antenna Array Design in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2173–2179IEEE Press 2004.
- [302] Hotz Peter Eggenberger. Asymmetric cell division in artificial evolution in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2180–2186IEEE Press 2004.
- [303] Vigraham Saranyan, Gallagher John. On the Relative Efficacies of Space Saving *CGAs for Evolvable Hardware Applications in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2187–2193IEEE Press 2004.
- [304] Khan Mozammel H.A., Perkowski Marek A. Genetic Algorithm Based Synthesis of Multi-Output Ternary Functions Using Quantum Cascade of Generalized Ternary Gates in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2194–2201IEEE Press 2004.
- [305] Kamio Shotaro, Iba Hitoshi. Evolutionary Construction of a Simulator for Real Robots in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2202–2209IEEE Press 2004.
- [306] Lucidarme Philippe. An Evolutionary Algorithm for Multi-Robot Unsupervised Learning in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2210–2215IEEE Press 2004.
- [307] Parker Gary. Partial Recombination for the Co-Evolution of Model Parameters in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2216–2223IEEE Press 2004.
- [308] Nojima Yusuke, Kubota Naoyuki, Kojima Fumio. Trajectory Generation and Accumulation for Partner Robots based on Structured Learning in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2224–2229IEEE Press 2004.
- [309] Tang Ke, Suganthan Ponnuthurai Nagaratnam, Yao Xin. Generalized Lda Using Relevance Weighting and Evolution Strategy in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2230–2234IEEE Press 2004.
- [310] Stanhope Stephen. Evolution Strategies for Multivariate-to-Anything Partially Specified Random Vector Generation in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2235–2240IEEE Press 2004.

- [311] Tulai Alexander, Oppacher Franz. Maintaining Diversity and Increasing the Accuracy of Classification Rules through Automatic Speciation in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2241–2249IEEE Press 2004.
- [312] Goldstein Michel, Yen Gary. An Evolutionary Algorithm Method for Sampling N-Partite Graphs in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2250–2257IEEE Press 2004.
- [313] Lichodzijewski Peter, Zincir-Heywood Nur, Heywood Malcolm. Cascaded GP Models for Data Mining in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2258–2264IEEE Press 2004.
- [314] Uyar A. Sima, Uyar H. Turgut. An Event-Driven Test Framework for Evolutionary Algorithms in Dynamic Environments in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2265–2272IEEE Press 2004.
- [315] Ashlock Daniel, Bryden Kenneth. Evolutionary Control of Lsystem Interpretation in *Proceedings* of the 2004 IEEE Congress on Evolutionary Computation(Portland, Oregon):2273–2279IEEE Press 2004.
- [316] Zhang Jun, Chung H.s.h., Hu B.J.. Adaptive Probabilities of Crossover and Mutation in Genetic Algorithms Based on Clustering Technique in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2280–2287IEEE Press 2004.
- [317] Czarn Andrew, MacNish Cara, Vijayan Kaipillil, Turlach Berwin. Statistical Exploratory Analysis of Genetic Algorithms: The Importance of Interaction in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2288–2295IEEE Press 2004.
- [318] Nakamura Morikazu, Yamashiro Naruhiko, Gong Yiyuan. Iterative Parallel and Distributed Genetic Algorithms with Biased Initial Population in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2296–2301IEEE Press 2004.
- [319] Xu Yong, Salcedo-Sanz Sancho, Yao Xin. Non-standard Cost Terminal Assignment Problems Using Tabu Search Approach in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2302–2306IEEE Press 2004.
- [320] Zhang Wen-Jun, Xie Xiao-Feng, Bi De-Chun. Handling Boundary Constraints for Numrical Optimization by Particle Swarm Flying in Periodic Search Space in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2307–2311IEEE Press 2004.
- [321] Tanev Ivan, Ray Thomas, Buller Andrzej. Evolutionary Design, Robustness and Adaptation of Sidewinding Locomotion of Simulated Libmless Wheelless Robot in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2312–2319IEEE Press 2004.
- [322] Fan Zhun, Goodman Erik, Jiachuan Wang, Ronald Rosenberg, Kisung Seo, Jianjun Hu. Hierarchical Evolutionary Synthesis of MEMS in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2320–2327IEEE Press 2004.
- [323] Yapicioglu Haluk, Dozier Gerry V., Smith Alice E.. Bi-criteria model for Locating a Semi-desirable Facility on a Plane Using Particle Swarm Optimization in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2328–2334IEEE Press 2004.
- [324] Zou Peng, Zhou Zhi, Chen Guoliang, Yao Xin. A Novel Memetic Algorithm with Random Multi-local-search: A case study of TSP in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2335–2340IEEE Press 2004.
- [325] De Jong Edwin. Towards a Bounded Pareto-Coevolution Archive in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2341–2348IEEE Press 2004.
- [326] Chang Ming, Ohkura Kazuhiro, Ueda Kanji, Sugiyama Masaharu. Modeling Coevolutionary Genetic Algorithms on Two-Bit Landscapes: Partnering Strategies in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2349–2356IEEE Press 2004.

- [327] Hughes Evan. Swarm Guidance using a Multi-Objective Co-evolutionary On-Line Evolutionary Algorithm in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2357–2363IEEE Press 2004.
- [328] Brewster Jon, Reynolds Robert G.. Alternative Fuel Adoption in *Proceedings of the 2004 IEEE Congress on Evolutionary Computation*(Portland, Oregon):2364–2371IEEE Press 2004.