

Список литературы

- [1] Agrawal, S., Bose, S. K., and Sundarrajan, S. (2009) Grouping genetic algorithm for solving the serverconsolidation problem with conflicts. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 1–8.
- [2] Becker, Y. L. and O'Reilly, U.-M. (2009) Genetic programming for quantitative stock selection. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 9–16.
- [3] Cao, C., Gu, J., Jiao, B., Xin, Z., and Gu, X. (2009) Optimizing constrained non-convex NLP problems in chemical engineering field by a novel modified goal programming genetic algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 17–24.
- [4] Cao, Y., Hu, C., and Li, L. (2009) Search-based multi-paths test data generation for structure-oriented testing. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 25–32.
- [5] Chen, H., Zhou, C., and Zhu, W. (2009) A hybrid neural-genetic approach for reconfigurable scheduling of networked control system. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 33–38.
- [6] Chen, J., Jia, J., Wen, Y., zhao, D., and Liu, J. (2009) A genetic approach to channel assignment for multi-radio multi-channel wireless mesh networks. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 39–46.
- [7] Chen, J., Jia, J., Wen, Y., Zhao, D., and Liu, J. (2009) Modeling and extending lifetime of wireless sensor networks using genetic algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 47–54.
- [8] Chen, Q., Xiong, S., and Liu, H. (2009) Particle swarm optimization algorithm based on dynamic memory strategy. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 55–60.
- [9] Chen, Z., He, Z., and Zhang, C. (2009) The non-clique particle swarm optimizer. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 61–66.
- [10] Seng, C. C., Lian, C. C., Spencer, L. K. M., and Darren, O. W. S. (2009) A co-evolutionary approach for military operational analysis. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 67–74.
- [11] Cullen, J. S. (2009) Evolving common LISP programs in a linear-genotype evolutionary computation system. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 75–80.
- [12] Cullen, J. S. (2009) Evolutionary meta programming. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 81–88.
- [13] Deng, R., Jiang, C., and Yin, F. (2009) Ant colony optimization for precedence-constrained heterogeneous multiprocessor assignment problem. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 89–96.
- [14] Ding, G., Li, L., and Ju, Y. (2009) Multi-strategy grouping genetic algorithm for the pickup and delivery problem with time windows. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 97–104.

- [15] Dupuis, J.-F., Fan, Z., and Goodman, E. (2009) Evolved finite state controller for hybrid system. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 105–112.
- [16] Fan, Q., Wang, P., and Huang, J. (2009) The effect of crossover on evolution ability of population. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 113–118.
- [17] Fang, X., Jiang, C., and Fan, X. (2009) Independent global constraints for web service composition based on GA and APN. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 119–126.
- [18] Feng, Z. and Xu, K. (2009) Tabu-search for single machine scheduling with controllable processing times. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 127–134.
- [19] Gan, C., Ying-ying, S., and Cang-hui, Z. (2009) Particle swarm optimization algorithm for emergency resource allocation on expressway. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 135–140.
- [20] Gong, M., Jiao, L., and Ma, W. (2009) Orthogonal immune algorithm with diversity-based selection for numerical optimization. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 141–148.
- [21] Gong, M., Jiao, L., and Ma, W. (2009) Large-scale optimization using immune algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 149–156.
- [22] Gu, F., Liu, H.-l., and Liu, W. (2009) A bounded diameter minimum spanning tree evolutionary algorithm based on double chromosome. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 157–162.
- [23] Gu, J., Cao, C., Jiao, B., and Gu, X. (2009) An improved quantum genetic algorithm for stochastic flexible scheduling problem with breakdown. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 163–170.
- [24] Gu, Q. and Ding, Y. (2009) Binary particle swarm optimization based prediction of G-protein-coupled receptor families with feature selection. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 171–176.
- [25] Guo, L., Rivero, D., Seoane, J. A., and Pazos, A. (2009) Classification of EEG signals using relative wavelet energy and artificial neural networks. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 177–184.
- [26] Guo, Y.-n., Yang, M., and Cheng, J. (2009) Path planning method for robots in complex ground environment based on cultural algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 185–192.
- [27] Guo, Y.-n., Cheng, J., and Lin, Y. (2009) Cooperative interactive cultural algorithms adopting knowledge migration. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 193–200.
- [28] He, G., Li, Y., Shi, Z., and Hu, T. (2009) Intrinsic evolution of digital circuits using evolutionary algorithms. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 201–208.

- [29] Hongfeng, X., Guanzheng, T., and Jingui, H. (2009) Large scale function optimization or high-dimension function optimization in large using simplex-based genetic algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 209–216.
- [30] Hu, H., Xu, L., and Hu, Q. (2009) Model-based compromise control of greenhouse climate using pareto optimization. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 217–222.
- [31] Hu, Q., Xu, L., and Goodman, E. D. (2009) Non-even spread NSGA-II and its application to conflicting multi-objective compatible control. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 223–230.
- [32] Huang, M., Dong, H.-y., Wang, X.-w., Zheng, B.-l., and Ip, W. H. (2009) Guided variable neighborhood harmony search for integrated charge planning in primary steelmaking processes. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 231–238.
- [33] Irene, H. S. F., Deris, S., Hashim, M., and Zaiton, S. (2009) University course timetable planning using hybrid particle swarm optimization. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 239–246.
- [34] Jiang, F., Berry, H., and Schoenauer, M. (2009) The impact of network topology on self-organizing maps. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 247–254.
- [35] Karshenas, H., Nikanjam, A., Helmi, B. H., and Rahmani, A. T. (2009) Combinatorial effects of local structures and scoring metrics in bayesian optimization algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 263–270.
- [36] Li, L.-p. and Wang, L. (2009) Hybrid algorithms based on harmony search and differential evolution for global optimization. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 271–278.
- [37] Li, Z., Wang, Y., Olivier, K. K., Chen, J., and Li, K. (2009) The cloud-based framework for ant colony optimization. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 279–286.
- [38] Li, Z., Liu, S., Xiao, D., Chen, J., and Li, K. (2009) Multi-objective particle swarm optimization algorithm based on game strategies. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 287–294.
- [39] Li, Z., Xu, B., Yang, L., Chen, J., and Li, K. (2009) Quantum evolutionary algorithm for multi-robot coalition formation. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 295–302.
- [40] Liang, Y. and Xu, L. (2009) Global path planning for mobile robot based genetic algorithm and modified simulated annealing algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 303–308.
- [41] Liang, Y. and Xu, L. (2009) Mobile robot global path planning using hybrid modified simulated annealing optimization algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 309–314.
- [42] Lin, C. (2009) An immune algorithm for complex fuzzy cognitive map partitioning. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 315–320.

- [43] Lin, J., Chen, S., Cao, Y., and Guan, H. (2009) Parameters optimization on dent around fuel filler of auto rear fender based on intelligent algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 321–328.
- [44] Liu, B., Ding, Y., and Wang, J. (2009) A collaborative optimized genetic algorithm based on regulation mechanism of neuroendocrine-immune system. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 329–336.
- [45] Liu, F., Zhang, W., Ding, Y., Liu, X., Zheng, M., and Liu, Y. (2009) DynamicTrust: three-dimensional dynamic computing model of trust in peer-to-peer networks. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 337–344.
- [46] Liu, J., Fan, Z., and Goodman, E. (2009) SRDE: an improved differential evolution based on stochastic ranking. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 345–352.
- [47] Liu, W., Wu, M., Peng, J., and Wang, G. (2009) Designing fair flow fuzzy controller using genetic algorithm for computer networks. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 361–368.
- [48] Liu, W., Li, M., Liu, Y., Xu, Y., and Yang, X. (2009) Decision of optimal scheduling scheme for gas field pipeline network based on hybrid genetic algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 369–374.
- [49] Liu, X., Hu, J., Teng, S., Zhao, L., and Liu, G. (2009) The design of three-motor intelligent synchronous decoupling control system. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 375–380.
- [50] Liu, Y., Zhang, D., and Leung, S. C. (2009) A simulated annealing algorithm with a new neighborhood structure for the timetabling problem. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 381–386.
- [51] LU, F.-Q., Huang, M., Ching, W.-K., Wang, X.-W., and Sun, X.-l. (2009) Multi-swarm particle swarm optimization based risk management model for virtual enterprise. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 387–392.
- [52] Lu, Q., Qiu, X.-n., and Liu, S.-r. (2009) A discrete particle swarm optimization algorithm with fully communicated information. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 393–400.
- [53] Luh, G.-C. and Hsieh, C.-C. (2009) Face recognition using immune network based on principal component analysis. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 401–408.
- [54] Ma, X., Mu, G., and Yu, X. (2009) Kernel-based immunity synergetic network for image classification. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 409–414.
- [55] Ma, X., Wan, W., and Jiao, L. (2009) Spectral clustering ensemble for image segmentation. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 415–420.
- [56] Min, H., Zeng, J., and Luo, R. (2009) Fuzzy CMAC with automatic state partition for reinforcement learning. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 421–428.

- [57] Mushi, J. C. and Tan, G. (2009) SO-antnet for improving load sharing in MANET. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 429–436.
- [58] Ning, B., Cao, X., Xu, Y., and Zhang, J. (2009) Virus-evolutionary genetic algorithm based selective ensemble classifier for pedestrian detection. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 437–442.
- [59] Otsuki, A. and Okada, K. (2009) The study of the knowledge optimization tool. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 443–450.
- [60] Ozkan, M., Yazici, A., Kapanoglu, M., and Parlaktuna, O. (2009) Hierarchical oriented genetic algorithms for coverage path planning of multi-robot teams with load balancing. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 451–458.
- [61] Pan, F., Wang, G., and Liu, Y. (2009) A multi-objective-based non-stationary UAV assignment model for constraints handling using PSO. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 459–466.
- [62] Parsopoulos, K. E. (2009) Cooperative micro-particle swarm optimization. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 467–474.
- [63] Pullan, W. (2009) A population based hybrid meta-heuristic for the uncapacitated facility location problem. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 475–482.
- [64] Qiu, X. and Lu, Q. (2009) Target tracking and localization of binocular mobile robot using camshift and SIFT. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 483–488.
- [65] Rokhlenko, O. and Wexler, Y. (2009) Embedded self-adaptation to escape from local optima. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 489–496.
- [66] Shen, H., Zhu, Y., Zhou, X., Guo, H., and Chang, C. (2009) Bacterial foraging optimization algorithm with particle swarm optimization strategy for global numerical optimization. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 497–504.
- [67] Sun, Y., Qi, G., Wang, Z., van Wyk, B. J., and Hamam, Y. (2009) Chaotic particle swarm optimization. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 505–510.
- [68] Unachak, P. and Goodman, E. (2009) Adaptive representation for flexible job-shop scheduling and rescheduling. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 511–516.
- [69] Wan, S., Hao, Y., and Qiu, D. (2009) Research on VRP using advanced probability learning based evolutionary algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 517–520.
- [70] Wang, F., Lin, Z., Yang, C., and Li, Y. (2009) SGMIT: using selfish gene theory to construct mutualinformation trees for optimization. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 521–528.
- [71] Wang, H., Teng, G., Zhang, Z., and Wang, G. (2009) A low cost hardware oriented motion estimation algorithm for HDTV. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 529–536.

- [72] Wang, H., Wu, Z., Liu, Y., Wang, J., Jiang, D., and Chen, L. (2009) Space transformation search: a new evolutionary technique. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 537–544.
- [73] Wang, L., Wang, X., and Fei, M. (2009) A novel quantum-inspired pseudorandom proportional evolutionary algorithm for the multidimensional knapsack problem. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 545–552.
- [74] Wang, X., Wan, W., and Yu, X. (2009) Rough set approximate entropy reducts with order based particle swarm optimization. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 553–560.
- [75] Wang, Y.-f., Wang, Y., and Mu, C.-y. (2009) Nodes localization in sensor networks based on vectors and particle swarm optimization. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 561–564.
- [76] Wang, Z.-L., Chen, Z.-H., and Chen, H.-Y. (2009) A novel robust background modeling algorithm for complex natural scenes. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 565–570.
- [77] Weihua, D. and Minrui, F. (2009) Dynamic output feedback control of uncertain networked control systems. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 571–576.
- [78] Weise, T. and Zapf, M. (2009) Evolving distributed algorithms with genetic programming: election. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 577–584.
- [79] Woodward, J. R. and Bai, R. (2009) Canonical representation genetic programming. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 585–592.
- [80] Woodward, J. R. and Bai, R. (2009) Why evolution is not a good paradigm for program induction: a critique of genetic programming. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 593–600.
- [81] Wu, C.-Y., Zhang, C.-B., and Wang, C.-J. (2009) Topology optimization of structures using ant colony optimization. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 601–608.
- [82] Xie, L.-P. and Zeng, J.-C. (2009) A global optimization based on physicomimetics framework. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 609–616.
- [83] Xie, L., Wang, Z., and Wu, K. (2009) The stability study of biped robot based on GA and neural network. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 617–622.
- [84] Xin, B., Chen, J., and Pan, F. (2009) Problem difficulty analysis for particle swarm optimization: deception and modality. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 623–630.
- [85] Xu, B., Luo, W., Pei, X., Zhang, M., and Wang, X. (2009) On average time complexity of evolutionary negative selection algorithms for anomaly detection. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 631–638.
- [86] Xu, H.-q., Ding, Y.-s., and Hu, Z.-h. (2009) Adaptive immune genetic algorithm for logic circuit design. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 639–644.

- [87] Xu, L., Hu, H., and Zhu, B. (2009) Energy-saving control of greenhouse climate based on MOCC strategy. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 645–650.
- [88] Xu, L., Zhu, B., and Goodman, E. D. (2009) An improved MOCC with feedback control structure based on preference. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 651–656.
- [89] Xu, Q., Si, J., and Wang, L. (2009) Association based immune network for multimodal function optimization. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 657–664.
- [90] Xu, S., Zhou, X., and Sun, Y.-n. (2009) A genetic algorithm-based feature selection method for human identification based on ground reaction force. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 665–670.
- [91] Xu, W. and Gu, X. (2009) A hybrid particle swarm optimization approach with prior crossover differential evolution. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 671–678.
- [92] Xu, X., Li, Y., Wu, Y., and Du, X. (2009) Parameter estimation for asymptotic regression model by particle swarm optimization. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 679–686.
- [93] Xu, Y., Low, M. Y. H., and Choo, C. S. (2009) Enhancing automated red teaming with evolvable simulation. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 687–694.
- [94] Xu, Z., Gu, X., Jiao, B., and Gu, J. (2009) Research on job shop scheduling under uncertainty. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 695–702.
- [95] Yan, P. and Tang, L. (2009) PSO algorithm for a scheduling parallel unit batch process with batching. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 703–708.
- [96] Yan, S. and Sun, Z. (2009) Design and analysis of switching full-order current observer and separation principle for T-S fuzzy system. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 709–716.
- [97] Yu, S., Cao, X., Hu, M., Du, W., and Zhang, J. (2009) A real-time schedule method for aircraft landing scheduling problem based on cellular automaton. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 717–724.
- [98] Yuan, R., Zou, X., and Xu, C. (2009) A parallel evolutionary algorithm for optimal pulse-width modulation technique in power systems. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 725–730.
- [99] Zeng, L., Zou, F., and Xu, X. (2009) Mathematical model and hybrid particle swarm optimization for flexible job-shop scheduling problem. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 731–736.
- [100] Zhang, M., Zhao, S., and Wang, X. (2009) A novel sexual adaptive genetic algorithm based on two-step evolutionary scenario of baldwin effect and analysis of global convergence. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 737–744.
- [101] Zhang, S.-P., Ding, Y.-S., and Hao, K.-R. (2009) An immune evolutionary algorithm based pose estimation method for parallel manipulator. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 745–750.

- [102] Zhang, X.-f., Liu, J., and Ding, Y.-s. (2009) An immune co-evolutionary algorithm based approach for optimization control of gas turbine. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 751–756.
- [103] Zhou, Q., Cui, X., Wang, Z., and Yang, B. (2009) A hybrid optimization algorithm for the job-shop scheduling problem. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 757–764.
- [104] Zhu, W. (2009) A study of parallel evolution strategy: pattern search on a GPU computing platform. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 765–772.
- [105] Zhu, Y., Ding, Y., Li, W., and Kemp, G. (2009) A proposed modularized DNA computer, based on biochips. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 773–780.
- [106] Zhuo, J., Li, J., and Wu, G. (2009) Study of cache placement for time-shifted TV cluster using genetic algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 781–786.
- [107] Affenzeller, M., Beham, A., Wagner, S., and Winkler, S. M. (2009) About the dynamics of essential genetic information: an empirical analysis for selected GA-variants. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 787–790.
- [108] An, J., Guo, X., and Yang, Y. (2009) Analysis of collision probability in vehicular ad hoc networks. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 791–794.
- [109] Cai, Z.-s., Sun, L.-n., and Gao, H.-b. (2009) A novel hierarchical decomposition for multi-player pursuit evasion differential game with superior evaders. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 795–798.
- [110] Chen, H. and Zou, B. (2009) Optimal feature selection algorithm based on quantum-inspired clone genetic strategy in text categorization. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 799–802.
- [111] Chen, Q., Xiong, S., and Liu, H. (2009) Evolutionary multi-objective optimization algorithm based on global crowding diversity maintenance strategy. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 803–806.
- [112] Chen, S.-H., Zeng, R.-J., and Yu, T. (2009) Analysis of micro-behavior and bounded rationality in double auction markets using co-evolutionary GP. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 807–810.
- [113] Comellas, F. and Martinez-Navarro, J. (2009) Bumblebees: a multiagent combinatorial optimization algorithm inspired by social insect behaviour. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 811–814.
- [114] Dai, G., Li, Y., and Zheng, W. (2009) Research on an orthogonal and model based multi-objective genetic algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 815–818.
- [115] Ding, G., Li, D., and Chen, L. (2009) Solving the packing problem of rectangles with improved genetic algorithm based on statistical analysis. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 819–822.

- [116] Du, X., Ding, L. X., Xie, C. W., Xu, X., Wang, S. w., and Chen, L. (2009) Convergence analysis of gene expression programming based on maintaining elitist. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 823–826.
- [117] Gu, J., Cao, C., Jiao, B., and Gu, X. (2009) An improved quantum genetic algorithm for stochastic job shop problem. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 827–830.
- [118] Guo, J.-p., Li, W.-h., and Gao, F. (2009) Descriptive statistics of non-uniform interval symbolic data. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 831–834.
- [119] Huang, F., Gu, J., and Xu, J. (2009) The optimum method on injection molding condition based on RBF network and ant colony algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 835–838.
- [120] Huang, M., Cui, Y., Wang, X., and Dong, H. (2009) A genetic algorithm for solving fourth-party logistics routing optimizing problem with fuzzy duration time. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 839–842.
- [121] Jiang, H., Yuan, Z., and Zhao, Y. (2009) Research on flight test calibration strategy based on data fusion. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 843–846.
- [122] Jin, L., Jia, J., Chang, G., and Wang, X. (2009) Restoration of coverage blind spots in wireless sensor networks based on ant colony algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 847–850.
- [123] Kim, Y.-H. and Yoon, Y. (2009) Representation and recombination over nonsingular binary matrices. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 855–858.
- [124] Korns, M. F. (2009) Symbolic regression using abstract expression grammars. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 859–862.
- [125] Li, L. and Kong, F. (2009) Synchronization analysis and control in chaos system based on complex network. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 863–866.
- [126] Li, X., Mao, Z., and Qi, E. (2009) Research on multi-supplier performance measurement based on genetic ant colony algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 867–870.
- [127] Li, Y., Shi, H., Gong, M., and Shang, R. (2009) Quantum-inspired evolutionary clustering algorithm based on manifold distance. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 871–874.
- [128] Liu, C., Wan, W., and Wu, Y. (2009) Image based reconstruction using hybrid optimization of simulated annealing and genetic algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 875–878.
- [129] Liu, F., Qi, Y., Xia, Z., and Hao, H. (2009) Discrete differential evolution algorithm for the job shop scheduling problem. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 879–882.
- [130] Liu, H., Xiong, S., and Chen, Q. (2009) Training fuzzy support vector machines by using boundary of rough set. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 883–886.

- [131] Liu, R., Li, Y., Zhang, W., and Jiao, L. (2009) Stochastic ranking based differential evolution algorithm for constrained optimization problem. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 887–890.
- [132] Liu, S., Qiao, Y.-y., and Wen, Q.-k. (2009) Segmentation of multispectral remote sensing images based on ant colony optimization algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 891–894.
- [133] Liu, Y., Xiong, S., and Liu, H. (2009) Hybrid simulated annealing algorithm based on adaptive cooling schedule for TSP. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 895–898.
- [134] Longcun, J., Wanggen, W., Bin, C., Xiaoqing, Y., and Hongwei, X. (2009) A new multimedia information data mining method. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 899–902.
- [135] Luo, X., Sun, Z., Zhang, X., Hu, L., and Wang, C. (2009) Hybrid EDA-based optimal attitude control for a spacecraft in a class of control task. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 903–906.
- [136] Lv, S., Wang, S., and Wang, X. (2009) Emotional speech synthesis by XML file using interactive genetic algorithms. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 907–910.
- [137] Pa, P. S. and Chang, S. C. (2009) Computational model design and performance estimation in registration brake control. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 911–914.
- [138] Peng, Y., Luo, X., and Wei, W. (2009) Discussion on convergence of a fuzzy adaptive simulated annealing genetic algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 915–918.
- [139] Peng, Y., Zhang, D., and Chin, F. Y. (2009) A hybrid simulated annealing algorithm for container loading problem. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 919–928.
- [140] Yu, B., Zeng, S., Gao, S., Yan, Z., Shi, Y., Yang, X., and Xiao, B. (2009) A dynamic evolutionary algorithm and its application in automated antenna design. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 929–932.
- [141] Qi, J., Shao, S., and Rong, Z. (2009) Feedback-control modeling for cellular response mechanisms based on a gene regulatory networks under radiotherapy. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 933–936.
- [142] Qian, X., Shengjing, T., and Jie, G. (2009) Evolutionary algorithm for multi-objective optimization and its application in unmanned flight vehicle trajectory control. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 937–940.
- [143] Qin, S. (2009) Log-optimal portfolio models with risk control of VaR and CVaR using genetic algorithms. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 941–944.
- [144] Sekaj, I. and Oravec, M. (2009) Selected population characteristics of fine-grained parallel genetic algorithms with re-initialization. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 945–948.

- [145] Shen, J.-h., Li, C.-x., and Li, J.-h. (2009) Structural damping identification using analytic wavelet transformation. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 949–952.
- [146] Smith, R. E. and Jiang, M. K. (2009) MILCS in protein structure prediction with default hierarchies. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 953–956.
- [147] Su, B. and Shen, Y.-D. (2009) Maximum margin transfer learning. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 957–960.
- [148] Sun, S. (2009) Traffic flow forecasting based on multitask ensemble learning. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 961–964.
- [149] Sun, X., Huang, M., Wang, X., and Lu, F. (2009) Distributed risk management model and algorithm for virtual enterprise with private information. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 965–968.
- [150] Tan, L. and Guo, L. (2009) Quantum and biogeography based optimization for a class of combinatorial optimization. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 969–972.
- [151] Tan, Y., Zhao, T., and Zhao, Z. (2009) Using GA-ANN algorithm to predicate coal bump energy. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 973–976.
- [152] Tang, J., Alam, S., Abbass, H., and Lokan, C. (2009) Modelling and evolutionary multi-objective evaluation of interdependencies and work processes in airport operations. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 977–984.
- [153] Wang, H., Qi, H., Li, W., Zhang, G., and Wang, P. (2009) A GA-based automatic pore segmentation algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 985–988.
- [154] Wang, J. and Loo, S. M. (2009) Case study of finite resource optimization in FPGA using genetic algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 989–992.
- [155] Wang, L.-F., Zeng, J.-C., and Hong, Y. (2009) Estimation of distribution algorithm based on archimedean copulas. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 993–996.
- [156] Wang, Y., Wang, J., Du, W., Zhang, C., Zhang, Y., and Zhou, C. (2009) Parameters optimization of support vector regression based on immune particle swarm optimization algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 997–1000.
- [157] Wang, Z., Liu, J.-l., and Yu, X. (2009) Self-fertilization based genetic algorithm for university timetabling problem. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 1001–1004.
- [158] Wen, L., Liu, G., and Zhao, Y. (2009) HS-Model: a hierarchical statistical subtree-generating model for genetic programming. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 1005–1008.
- [159] Luo, X., Peng, Y., and Wei, W. (2009) Research on stronger convergence in probability of immune genetic algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 1009–1012.

- [160] Xie, F., He, S., Liu, X., Li, X., Du, J., Yang, J., Fu, Y., Chen, Y., Wang, J., Liu, Z., and Zhu, Q. (2009) To create neuro-controlled game opponent from UCT-created data. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 1013–1016.
- [161] Xu, Y., Deli, Y., and Yu, L. (2009) Efficient annealing -inspired genetic algorithm for information retrieval from web-document. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 1017–1020.
- [162] Xue, S. and Zeng, J. (2009) Controlling swarm robots with kinematic constraints for target search. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 1021–1024.
- [163] Yan, T., Shen, L., An, P., Wang, H., and Zhang, Z. (2009) Frame-layer rate control algorithm for multi-view video coding. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 1025–1028.
- [164] Yang, K., Ye, J., Li, Z., and Qiao, Y. (2009) Free hand sketch understanding using SVMs-chain modeling for spatial and temporal patterns. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 1029–1032.
- [165] Yang, Y., Xiaoping, L., Yonggang, P., and Wei, W. (2009) Research of fuzzy control strategy on artificial climate chest. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 1033–1036.
- [166] Yong, S. and Zhimin, L. (2009) Optimal multi-objective design of power system damping controller using synergy of bacterial forging and particle swarm optimization. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 1037–1040.
- [167] Yu, Y.-M., Zhao, G.-Q., and Liu, J.-D. (2009) Hyperchaotic genetic algorithm theory and functions optimization. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 1041–1044.
- [168] Zeng, W., Zhao, Y., and Zeng, J. (2009) Cloud service and service selection algorithm research. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 1045–1048.
- [169] Zhang, L., Jiao, Y. C., Li, H., and Zhang, F. S. (2009) Hybrid differential evolution and the simplified quadratic interpolation for global optimization. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 1049–1052.
- [170] Zhang, Q., Liu, S., An, P., and Zhang, Z. (2009) Object segmentation based on disparity estimation. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 1053–1056.
- [171] Zhang, Q.-b., Wu, T.-h., and Liu, B. (2009) A weight based compact genetic algorithm. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 1057–1060.
- [172] Zhao, Y., Wang, J., and Song, Y. (2009) An improved differential evolution to continuous domains and its convergence. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 1061–1064.
- [173] Cao, Z.-C., Qiao, F., and Wu, Q.-D. (2009) Ga based approach for optimized scheduling in a semiconductor wafer fabrication. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 1065–1068.
- [174] Zhou, Z., Zhongke, S., and Li, Y. (2009) Study to short-term flow estimation at intersection base on genetic neural networks. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 1073–1076.

- [175] Zhu, M. and Yang, Y. (2009) An improved simulated annealing algorithm for vector quantizer design. In *GEC '09: Proceedings of the first ACM/SIGEVO Summit on Genetic and Evolutionary Computation* New York, NY, USA: ACM pp. 1077–1080.