

f_{26}	-10.40	4	100	-10.40	8.61e-03	-10.40	3.63e-03	Similar
f_{27}	-10.54	4	100	-10.52	0.08	-10.40	3.12e-06	ABC
f_{28}	0	10	100	13.77	3.80	14.15	0.69	Similar
f_{29}	-9.66015	10	100	-9.66015	0	-9.66015	0	Similar
f_{30}	-1.4	10	100	-0.78	0.09	-0.24	0.08	ABC

References

- [1] D. Karaboga, "An idea based on honey bee swarm for numerical optimization", Erciyes University, Kayseri, Turkey, Technical Report-TR06, 2005.
- [2] D. Karaboga, B. Akay, "A comparative study of artificial bee colony algorithm", *Applied Mathematics and Computation* 214 (1) (2009) 108–132.
- [3] Q. Bai, X. Yun, "A new hybrid artificial bee colony algorithm for the traveling salesman problem", in: Proc. 3rd Int. Conf. Communication Software and Networks (ICCSN), 2011, pp. 155–159.
- [4] N. Stanarevic, M. Tuba, N. Bacanin, "Modified artificial bee colony algorithm for constrained problems optimization", *Int. Journal of Mathematical Models and Methods in Applied Sciences* 5 (3) (2011) 644–651.
- [5] S. Omkar, J. Senthilnath, R. Khandelwal, G. Naik, S. Gopalakrishnan, "Artificial bee colony (ABC) for multi-objective design optimization of composite structures", *Applied Soft Computing* 11 (1) (2011) 489–499.
- [6] F. Kang, J. Li, Q. Xu, "Structural inverse analysis by hybrid simplex artificial bee colony algorithms", *Computers and Structures* 87 (13–14) (2009) 861–870.
- [7] R. Irani, R. Nasimi, "Application of artificial bee colony-based neural network in bottom hole pressure prediction in underbalanced drilling", *Journal of Petroleum Science and Engineering* 78 (1) (2011) 6–12.
- [8] N. Karaboga, "A new design method based on artificial bee colony algorithm for digital IIR filters", *Journal of the Franklin Institute* 346 (4) (2009) 328–348.
- [9] D. Karaboga, B. Akay, "PID controller design by using artificial bee colony, harmony search and bees algorithms", in: *Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering* 224 (7) (2010) 869–883.
- [10] R. Rao, P. Pawar, "Parameter optimization of a multi pass milling process using non-traditional optimization algorithms", *Applied Soft Computing* 10 (2) (2010) 445–456.
- [11] D. Karaboga, B. Gorkemli, C. Ozturk, N. Karaboga, "A comprehensive survey: artificial bee colony (ABC) algorithm and applications", *Artificial Intelligence Review* (2012) 1–37.
- [12] L. Bao, J. Zeng, "Comparison and analysis of the selection mechanism in the artificial bee colony algorithm", in: Proc. 9th Int. Conf. Hybrid Intelligent Systems, 2009, pp. 411–416.
- [13] W. Gao, S. Liu, "A modified artificial bee colony algorithm", *Computers and Operations Research* 39 (3) (2012) 687–697.
- [14] J. Lampinen, I. Zelinka, "On stagnation of the differential evolution algorithm", in: Proc. 6th Int. Mendel Conf. on Soft Computing, 2000, pp. 76–83.
- [15] M. S. Alam, M. M. Islam, "Artificial bee colony algorithm with self-adaptive mutation: A novel approach for numeric optimization", in: Proc. 2011 IEEE Int. Conf. on Trends and Developments in Converging Technology (TENCON), 2011, pp. 49–53.
- [16] M. Abd, "A cooperative approach to the artificial bee colony algorithm", in: *IEEE Congress on Evolutionary Computation (CEC)*, 2010 1–5.
- [17] W. Lee, W. Cai, "A novel artificial bee colony algorithm with diversity strategy", in: Proc. 7th Int. Conf. Natural Computation, 2011, pp. 1441–1444.
- [18] B. Wu, S. Fan, "Improved Artificial Bee Colony Algorithm with Chaos", in: Y. Yu, Z. Yu, J. Zhao (Eds.): *Computer Science for Environmental Engineering and EcoInformatics, Part I, Communications in Computer and Information Science*, vol. 158, 2011, pp. 51–56.
- [19] L. Fenglei, D. Haijun, F. Xing, "The parameter improvement of bee colony algorithm in TSP problem", *Science Paper Online*, November 2007.
- [20] G. Zhu, S. Kwong, "Gbest-guided artificial bee colony algorithm for numerical function optimization", *Applied Mathematics & Computation* 217 (7) (2010) 3166–3173.
- [21] F. Kang, J. Li, Z. Ma, H. Li, "Artificial bee colony algorithm with local search for numerical optimization", *Journal of Software* 6 (3) (2011) 490–497.
- [22] F. Qingxian, D. Haijun, "Bee colony algorithm for the function optimization", *Science Paper Online*, 2008.
- [23] H. Quan, X. Shi, "On the analysis of performance of the improved ABC algorithm", in: 4th IEEE Int. Conf. Natural Computation (ICNC), 2008, pp. 654–658.
- [24] E. Montes, R. Koepfel, "Elitist artificial bee colony for constrained real-parameter optimization", *IEEE Congress on Evolutionary Computation* 11 (2010), pp. 1–8.
- [25] S. Nieberg, H. Beyer, "Self-adaptation in evolutionary algorithms", *Parameter Setting in Evolutionary Algorithm* (2007) 47–76.
- [26] J. Liang, A. Qin, P. Suganthan, S. Baskar, "Comprehensive learning particle swarm optimizer for global optimization of multimodal functions", *IEEE Trans. on Evolutionary Comput.* 10 (3) (2006) 281–295.
- [27] C. Lee, X. Yao, "Evolutionary programming using mutations based on the Lévy probability distribution", *IEEE Transactions on Evolutionary Computation* 8 (1) (2004) 1–13.
- [28] X. Yao, Y. Liu, G. Lin, "Evolutionary programming made faster", *IEEE Transactions on Evolutionary Computation* 3 (2) (1999) 82–102.