

1. Amolkumar Narayan Jadhav, N. Gomathi, WGC: Hybridization of exponential grey wolf optimizer with whale optimization for data clustering, Alexandria Engineering Journal, Volume 57, Issue 3, 2018, Pages 1569-1584, ISSN 1110-0168
2. Karlekar, Nandkishor & Gomathi, N.. (2018). OW-SVM: Ontology and whale optimization-based support vector machine for privacy-preserved medical data classification in cloud. International Journal of Communication Systems. 31. e3700. 10.1002/dac.3700.
3. Karlekar N. P. Gomathi N. (2017). Kronecker product and bat algorithm-based coefficient generation for privacy protection on cloud. International Journal of Modeling, Simulation, and Scientific Computing, 8(3), 1750021. 10.1142/S1793962317500210
4. Wagh, Mukund & Gomathi, N.. (2018). Route discovery for vehicular ad hoc networks using modified lion algorithm. Alexandria Engineering Journal. 57. 10.1016/j.aej.2018.05.006.
5. Sampath, A & Gomathi, N.. (2017). Fuzzy-based multi-kernel spherical support vector machine for effective handwritten character recognition. Sādhana. 42. 10.1007/s12046-017-0706-9.
6. Sampath, A. & Gomathi, N.. (2017). Decision tree and deep learning based probabilistic model for character recognition. Journal of Central South University. 24. 2862-2876. 10.1007/s11771-017-3701-8.
7. Wagh, M.B., & Gomathi, N. (2019). Optimal Route Selection for Vehicular Adhoc Networks using Lion Algorithm. The Journal of Engineering Research, 7.
8. Wagh, Mukund & Gomathi, N.. (2018). Water Wave Optimization-based Routing Protocol for Vehicular Adhoc Networks. International Journal of Modeling, Simulation, and Scientific Computing. 09. 10.1142/S1793962318500472.
9. Jagtap, Arvind & Gomathi, N.. (2017). Minimizing sensor movement in target coverage problem: A hybrid approach using Voronoi partition and swarm intelligence. Bulletin of the Polish Academy of Sciences Technical Sciences. 65. 10.1515/bpasts-2017-0030.
10. Jadhav, Amolkumar & Gomathi, N.. (2016). Kernel-based exponential grey wolf optimizer for rapid centroid estimation in data clustering. Jurnal Teknologi. 78. 10.11113/.v78.8057.
11. Gomathi, N. & Sridevi, I.. (2015). Recovery of noble metal from E-waste using leaching, electro deposition and electro generative process. Der Pharma Chemica. 7. 219-224.
12. Sampath, A.K. & Gomathi, N.. (2019). Handwritten optical character recognition by hybrid neural network training algorithm. The Imaging Science Journal. 67. 1-15. 10.1080/13682199.2019.1661591.
13. Gomathi, N. & Karlekar, Nandkishor. (2019). Ontology and Hybrid Optimization Based SVNN for Privacy Preserved Medical Data Classification in Cloud. International Journal on Artificial Intelligence Tools. 28. 1950009. 10.1142/S021821301950009X.
14. Jagtap, Arvind & Gomathi, N.. (2020). Energy Efficient Sensor Deployment with TCOV and NCON in Wireless Sensor Networks: Energy Efficient Sensor Deployment with TCOV. International Journal of Embedded and Real-Time Communication Systems. 11. 1-22. 10.4018/IJERTCS.2020010101.
15. Jagtap, Arvind & Gomathi, N.. (2019). Minimizing movement for network connectivity in mobile sensor networks: an adaptive approach. Cluster Computing. 22. 1-11. 10.1007/s10586-017-1660-3.
16. Mukund, Wagh & Gomathi, N.. (2018). Quantitative and qualitative correlation analysis of optimal route discovery for vehicular ad-hoc networks. Journal of Central South University. 25. 1732-1745. 10.1007/s11771-018-3864-y.

17. Karuppiah, Nagalakshmi & Gomathi, N.. (2018). Criticality-cognizant Clustering-based Task Scheduling on Multicore Processors in the Avionics Domain. *International Journal of Computational Intelligence Systems*. 11. 219. 10.2991/ijcis.11.1.17.
18. Gomathi, N. & Raghavendran, Srividhya & Darwin, P. & Sugumaran, D.. (2016). Cross Layer Architecture for Maintaining QoS in Multimedia Applications. *Indian Journal of Science and Technology*. 9. 10.17485/ijst/2016/v9i31/92858.
19. Geetha, A. & Gomathi, N.. (2019). A robust grey wolf-based deep learning for brain tumour detection in MR images. *Biomedical Engineering / Biomedizinische Technik*. 65. 10.1515/bmt-2018-0244.
20. Geetha, A. & Gomathi, N.. (2020). CBIR aided classification using extreme learning machine with probabilistic scaling in MRI brain image. *Bio-Algorithms and Med-Systems*. -1. 10.1515/bams-2019-0060.
21. Wagh, Mukund & Gomathi, N.. (2017). Shared intelligent optimum route selection through traffic management system in VANET– SIRS. *International Journal of Engineering & Technology*. 7. 125. 10.14419/ijet.v7i1.2.9037.
22. A. K. Sampath and N. Gomathi, (2017). Probabilistic Model Based Hybrid Classifier for Character Recognition. *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems*. Vol. 25, No. 04, pp. 621-647
23. Karuppiah, Nagalakshmi & Gomathi, N.. (2017). Analysis of Power Management Techniques in Multicore Processors. 10.1007/978-981-10-3174-8_35.
24. Gomathi, N.. (2016). Enhancing the end to end QoS of multimedia applications in mobile adhoc networks by an integrated cross layer approach. 9. 5741-5752.
25. Gomathi, N. & Srinivasulu, P. & Nikhil, C.V. & Vineeth, K.V.. (2016). Interactive dashboard for the betterment of patient health using big data analytics. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*. 7. 1697-1707.
26. Gomathi, N. & P L, Rupesh Kumar. (2016). Study on the performance of plastic waste oil in CI engines: A review. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*. 7. 1689-1696.