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Area of Speciazation: Machine Learning, Optimization Techniques.

Journal Publications:

1. Pravinkumar M Sonsare, **C Gunavathi 2019**, "Investigation of machine learning techniques on proteomics: A comprehensive survey" Progress in Biophysics and Molecular Biology. DOI: 10.1016/j.pbiomolbio.2019.09.004. **(IF – 2.703)**

2. M.S. Arunkumar, P.Suresh, **C.Gunavathi2018, "**High Utility Infrequent Itemset Mining Using a Customized Ant Colony Algorithm**"** International Journal of Parallel Programming.DOI: 10.1007/s10766-018-0621-7. **(IF – 1.258)**

3. Arunkumar M.S, Suresh P, **Gunavathi C**, Preethi S **2018**, "Periodicity Mining, " a Time Inference over High Utility item set mining" – A Study" , International Journal of Recent Technology and Engineering, Vol. 7, Issue. 4S.**(SCOPUS)**

4. M.S. Arunkumar, P.Suresh, **C.Gunavathi2018**, "High Utility Itemset Mining using Partition Utility List Structure", Journal of Computational and Theoretical Nanoscience, vol. 15, pp. 171-178.**(SCOPUS)**

5. SwarnaPriya RM, Aarthy S L, **Gunavathi C**, Venkatesh P, Srinivas Koppu, Xiao-Zhi Gao **2017**, "3D Reconstruction of a scene from multiple 2D images" , International Journal of Civil Engineering and Technology, vol. 8, no. 12, pp. 324-331. **(SCOPUS)**

6. **C.Gunavathi**, K.Premalatha and K.Sivasubramanian**2017**, "A Survey on Feature Selection Methods in Microarray Gene Expression Data for Cancer Classification", Research Journal of Pharmacy and Technology, vol. 10, no. 5, pp. 1395 – 1401.**(SCOPUS)**

7. **C.Gunavathi**, K.Premalatha and K.Sivasubramanian**2017**, "Biomarker Selection from Gene Expression Data for Tumour Categorization Using Bat Algorithm", International Journal of Intelligent Engineering & Systems, vol. 10, no. 3, pp. 401 – 408.**(SCOPUS)**

8. **C.Gunavathi**, K.Premalatha and K.Sivasubramanian**2017**, "An Application of Clonal Selection Algorithm in Gene Selection for Cancer Classification using Microarray Data", Research Journal of Pharmaceutical, Biological and Chemical Sciences, vol. 8, no. 1, pp. 173 – 182.

9. S. Sutha, C. Kavitha, **C. Gunavathi 2017**, "Image Retrieval using Fused Features and Annotation Techniques", Asian Journal of Research in Social Sciences and Humanities, vol. 7, no. 1, pp. 392-399.

10. Sivasubramanian, K, Jayanthi, K B &**Gunavathi, C2016**, 'Chip Area Minimization with Voltage-Island and Fixed-Outline Constraints Using Dual Level Meta-Heuristic Optimization Algorithms', Journal of Computational and Theoretical Nanoscience, vol. 13, no. 7, pp. 4427- 4438. **(SCOPUS)**

11. **Gunavathi, C** &Premalatha, K **2015**,'Cuckoo search optimization for feature selection in cancer classification: A new approach', International Journal of Data Mining and Bioinformatics, Inderscience Publishers, vol. 13, no. 3, pp. 248-265. **(IF – 0.789)**

12. **Gunavathi, C** &Premalatha, K **2014**,'A Comparative analysis of swarm intelligence techniques for feature selection in cancer classification', The Scientific World Journal, Hindawi Publishing Corporation, vol. 2014, Article ID 693831, doi: 10.1155/2014/693831.**(SCOPUS)**

13. **Gunavathi, C**&Premalatha, K **2014,** 'Statistical measures and optimization algorithms for gene selection in lung and ovarian tumor', World Academy of Science, Engineering and Technology, International Journal of Medical, Health, Pharmaceutical and Biomedical Engineering, vol. 8, no. 10, pp. 685-691.

14. **Gunavathi, C**&Premalatha, K **2014**, 'Performance analysis of genetic algorithm with kNN and SVM for feature selection in tumor classification', World Academy of Science, Engineering and Technology, International Journal of Computer, Information, Systems and Control Engineering, vol. 8, no. 8,   pp. 1357-1364.