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Area of Specialization: Data Mining, Soft Computing, Optimization Techniques

List of 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.Gunavathi 2018, "**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.Gunavathi 2018**, "High Utility Itemset Mining using Partition Utility List Structure", Journal of Computational and Theoretical Nanoscience, vol. 15, pp. 171- 178. **(SCOPUS)**

5. Swarna Priya 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, C 2016**, '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)**

List of Conference Publications

1. Swarna Priya RM, Gunavathi C, Aarthy, SL, 'Estimating the distance of a human from an object using 3D image reconstruction' Advances in Intelligent Systems and Computing (Springer), 862, pp. 235-243, 2019. **(SCOPUS)**

2. Gunavathi C, Swarna Priya RM, Aarthy, SL, 'Big data analysis for anomaly detection in telecommunication using clustering techniques' Advances in Intelligent Systems and Computing (Springer), 862, pp. 111-121, 2019. **(SCOPUS)**

3. R.Meena & C.Gunavathi, 'Automated skin lesion analysis system for melanoma early detection and prevention using SVM classifier' International Conference on Green, Intelligent Computing and Communication Systems, Coimbatore, 2016.

4. Gunavathi, C, & Meena.R, 'Survey on Automated Skin Lesion Analysis System for Melanoma Early Detection and Prevention', International Conference on Modelling, Simulation and Control (ICMSC), pp. 247-250, 2015.