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Research Area: Machine Learning, Optimization Techniques, Bioinformatics, Networks

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, Aarthi 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.