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Area of interest: Image Processing

Journal Publications:

1. Harikumar Rajaguru ,Sannasi Chakravarthy S R Efficient Denoising Framework for Mammogram Images with a New Impulse Detector and Non-Local Means Asian Pacific Journal of Cancer Prevention 21 1 179 - 183 JAN 2020
2. N. Bharanidharan Modified Grey Wolf Randomized Optimization in Dementia Classification Using MRI Images IETE Journal of Research <https://doi.org/10.1080/03772063.2020.1715852> - JAN 2020
3. N. Bharanidharan, Harikumar Rajaguru Improved chicken swarm optimization to classify dementia MRI images using a novel controlled randomness optimization algorithm International Journal of Imaging systems and technology DOI: 10.1002/ima.22402 - FEB 2020
4. K. Nirmalakumari, Haikumar Rajaguru, P. Rajkumar Performance analysis of classifiers for colon cancer detection from dimensionality reduced microarray gene data International Journal of Imaging Systems and Technology Early view 1 - 20 MAR 2020
5. Sannasi Chakravarthy S R, Harikumar Rajaguru Lung Cancer Detection using Probabilistic Neural Network with modified Crow-Search Algorithm Asian Pacific Journal of Cancer Prevention 20 7 2159 - 2166 JUL 2019
6. Harikumar Rajaguru Insight to mutual information and Matrix factorization with linear Neural networks for epilepsy Classification from EEG signals International Journal of Mechanical Engineering and Technology 10 01 - JAN 2019
7. Harikumar Rajaguru Wavelet Transform Analysis (Haar and Sym8) For Epilepsy Classification With Soft Discriminant Classifier International Journal of Mechanical Engineering and Technology 10 02 - FEB 2019
8. Sannasi Chakravarthy S R, Harikumar Rajaguru Impulse Noise Removal in Mammograms using Bi-Dimensional Empirical Mode Decomposition and Fast Adaptive Bilateral Filter International Journal of Recent Technology and Engineering (IJRTE) 8 2 674 - 678 JUL 2019
9. Harikumar Rajaguru, Monish Ramesh, Manoranjith.K Performance Analysis of Classifiers in Identification of Dry and Wet Spells During the Monsoon Period International Journal of Recent Technology and Engineering (IJRTE) 8 2 3342 - 3346 JUL 2019
10. Bharanidharan N, Harikumar Rajaguru Performance enhancement of swarm intelligence techniques in dementia classification using dragonfly-based hybrid algorithms International Journal of Imaging Systems and Technology DOI: 10.1002/ima.22365 - AUG 2019

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- 12.** Sannasi Chakravarthy S R, Harikumar Rajaguru Detection and classification of microcalcification from digital mammograms with firefly algorithm, extreme learning machine and non-linear regression models: A comparison International Journal of Imaging Systems and Technology Article in Press 1 - 21 AUG 2019
- 13.** Harikumar Rajaguru, Sannasi Chakravarthy S R Cumulant Features based Classification of Brain MR Images using ANN and LS-SVM Algorithm International Journal of Innovative Technology and Exploring Engineering 8 11 4008 - 4012 SEP 2019
- 14.** D. Ramachandran, V. Ponnusamy Thangapandian, Harikumar Rajaguru Computerized Approach for Cardiovascular Risk Level Detection using Photoplethysmography Signals Measurement Article in Press - SEP 2019
- 15.** Sunil Kumar Prabhakar , Harikumar Rajaguru , Seong-Whan Lee Metaheuristic Based Dimensionality Reduction and Classification Analysis of PPG Signals for Interpreting Cardiovascular Disease IEEE Access 10 - OCT 2019
- 16.** Harikumar Rajaguru ,Sannasi Chakravarthy S R Analysis of Decision Tree and K-Nearest Neighbor Algorithm in the Classification of Breast Cancer Asian Pacific Journal of Cancer Prevention 20 12 3777 - 3781 DEC 2019
- 17.** R.Harikumar, P.Sunil Kumar Analysis of Singular Value Decomposition (SVD) and Radial Basis Function (RBF) Neural Networks for Epilepsy Risk Level Classification International Journal of Mechanical Engineering and Technology (IJMET) 9 1 369 - 377 JAN 2018
- 18.** R.Harikumar, P.Sunil Kumar Analysis of Hierarchical Functions Decision Trees and Minimum Relative Entropy in the Detection of Epilepsy Risk Levels from EEG Signals International Journal of Mechanical Engineering and Technology (IJMET) 9 2 1 - 14 FEB 2018
- 19.** R.Harikumar, P.Sunil Kumar Fuzzy Optimization with Modified Adaboost Classifier for Epilepsy Classification from EEG Signals Springer Lecture Notes on Computational Vision and Biomechanics, 28 1 604 - 612 FEB 2018
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- 25.** R.Harikumar, P.Sunil Kumar Design and Simulation of Simplified Epilepsy Risk Level Classification Technique from EEG Signals International Journal of Pure and Applied Mathematics 119 10 1967 - 1971 MAR 2018
- 26.** Harikumar Rajaguru, Vigneshkumar Arunachalam Performance Analysis of Compensatory Expectation Maximization (EM) Classifiers in Detection of Alcoholics from EEG signals with DWT and PSD Features Journal of Advanced Research in Dynamical and Control Systems 10 Special Issue 362 - 371 JUL 2018
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- 31.** Dr.R.Harikumar Performance Analysis of PSO as Post Classifier in Detection of Epilepsy Risk Levels From EEG Signals International Journal of Mechanical Engineering and Technology (IJMET) 9 7 - JUL 2018
- 32.** Dr.R.Harikumar Wavelet Neural Networks, Elman Back propagation and Multilayer Perceptrons for Epilepsy Classification from EEG Signals Research Journal of Pharmacy and Technology 11 4 1301 - 1306 APR 2018
- 33.** Sannasi Chakravarthy S R, Harikumar Rajaguru Fast And Efficient Image Compression Technique Using Different Encoding Schemes International Journal of Pure and Applied Mathematics 119 16 4633 - 4640 JUL 2018
- 34.** R.Harikumar Performance Analysis of PSO-EM Hybrid Edge Detection in Ultrasound Images International Journal of Mechanical Engineering and Technology (IJMET) 9 11 106 - 113 NOV 2018

- 35.** R.Harikumar, P.Sunil Kumar Development of an Efficient Epilepsy Classification System from EEG Signals for Telemedicine Application International Journal of Civil Engineering and Technology (IJCIET) 8 12 38 - 52 DEC 2017
- 36.** R.Harikumar, P.Sunil Kumar An Insight To Breast Cancer Classification With Ant Colony System Algorithm, International Journal of Civil Engineering and Technology (IJCIET) 8 12 53 - 59 DEC 2017
- 37.** R.Harikumar, P.Sunil Kumar Performance Analysis of Logistic Regression and Kernel Logistic Regression for Breast Cancer Classification International Journal of Civil Engineering and Technology (IJCIET) 8 12 60 - 68 DEC 2017
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- 46.** R.Harikumar, P.Sunil Kumar Comparison of Support Vector Machine with Particle Swarm Optimization Technique for epilepsy classification from EEG International Journal Of Pharmacy 8 2 11904 - 11915 JUN 2016

- 47.** R.Prabu,R.Harikumar A Performance Analysis of GA-ELM Classifier in Classification of Abnormality Detection in Electrical Impedance Tomography (EIT) Lung Images Journal of Scientific Journal of Scientific 75 7 404 - 411 JUL 2016
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- 55.** R.Harikumar, P.Sunil Kumar Efficient Automatic Seizure Detection Algorithms to Classify Epilepsy from EEG Signals Using Certain Post Classifiers Int. J. Pharm. Sci. Rev. Res 41 2 337 - 343 DEC 2016
- 56.** P. Manimekalai, R. Harikumar, and S. Raghavan SOGI Algorithm-Based Shunt Active Power Filter for Grid Integration of Photovoltaic Systems J CIRCUIT SYST COMP 25 5 221 - 240 MAY 2016
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- 58.** B.Manjurathi,R.Harikumar Analysis of test data compression and power reduction using multiple encoding for Opto Electronic circuits Journal Of Optoelectronics And Advanced Materials Journal Of Opto electronics And Advanced Materials 18 2 112 - 117 FEB 2016

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- 66.** R.Harikumar, P.Sunil Kumar An Exhaustive Analysis of Code Converters as Pre-Classifiers and Kmeans, SVD, PCA, EM, MEM, PSO, HPSO and MRE as Post Classifiers for Classification of Epilepsy from EEG Signals Journal of Chemical and Pharmaceutical Sciences, 9 3 818 - 822 MAY 2016
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- 74.** Harikumar R , Vijayakumar T A real time experimental setup for classification of epilepsy risk levels Applied soft computing 5 35 493 - 501 JUL 2015
- 75.** Harikumar R , Vinoth Kumar B Performace Analysis of medical image segmentation and edge detection using MEM and PSO algorithms Applied mathematics 9 6 3235 - 3243 NOV 2015
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- 77.** P. Manimekalai, R. Harikumar, S.Raghavan Enhancement of Fuzzy Controlled Photovoltaic Diesel System With Battery Storage Using Interleaved Converter With Hybrid MPPT for Rural Home Journal of Solar Energy Engineering AMSE 137 12 1 - 9 SEP 2015
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- 86.** R.Harikumar, P.Sunil Kumar Performance Analysis Using Code Converter Approach and the application of Approximate Entropy as Post Classifier for the Classification of Epilepsy Risk levels from EEG Signals Asian Journal of Pharmaceutical and Clinical Research 8 4 287 - 290 JUN 2015
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