

## Annexure II

**Dr.R.Harikumar**

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### **List of Publications: 50**

1. Divya Ramachandran, Vanathi Ponnusamy Thangapandian, **Harikumar Rajaguru**, “Computerized approach for cardiovascular risk level detection using photoplethysmography signals”, Measurement: Journal of the International Measurement Confederation, vol.150, January 2020.
2. **Harikumar Rajaguru**, Sunil Kumar Prabhakar, “Correlation dimension and Bayesian linear discriminant analysis for alcohol risk level detection”, International Conference On Computational Vision and Bio Inspired Computing, pp 576-582, January 2020.
3. S. R. Sannasi Chakravarthy, **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, 2020.
4. **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, 2020.
5. S. R. Sannasi Chakravarthy, **Harikumar Rajaguru**, “Image de-noising method using median type filter, fuzzy logic and genetic algorithm”, Advances in Intelligent Systems and Computing, 2020.
6. 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, 2020.
7. N. Bharanidharan, **Harikumar Rajaguru**, “Modified Grey Wolf Randomized Optimization in Dementia Classification Using MRI Images”, IETE Journal of Research, 2020.
8. **Harikumar Rajaguru**, Sunil Kumar Prabhakar, “Performance analysis of ICA with GMM and HMM for epilepsy classification”, Advances in Intelligent Systems and Computing, 2020.
9. N. Bharanidharan, **Harikumar Rajaguru**, “Performance enhancement of swarm intelligence techniques in dementia classification using dragonfly-based hybrid algorithms”, International Journal of Imaging Systems and Technology, 2020.
10. K. Nirmalakumari, **Harikumar Rajaguru**, P. Rajkumar, “Plant leaf disease detection using modified segmentation process and classification”, Advances in Intelligent Systems and Computing, 2020.

11. **Harikumar Rajaguru**, Sunil Kumar Prabhakar, "Spectral density analysis with logarithmic regression dependent Gaussian mixture model for epilepsy classification", Advances in Intelligent Systems and Computing, 2020.
12. M. Kalamani, M. Krishnamoorthi, **R. Harikumar**, R. S. Valarmathi, "Swarm intelligence based feature clustering for continuous speech recognition under noisy environments", Advances in Intelligent Systems and Computing, 2020.
13. **Harikumar Rajaguru**, Sunil Kumar Prabhakar, "Thresholding and clustering with singular value decomposition for alcoholic EEG analysis", Advances in Intelligent Systems and Computing, 2020.
14. Sunil Kumar Prabhakar, **Harikumar Rajaguru**, Seong-Whan Lee, "A Comprehensive Analysis of Alcoholic EEG Signals with Detrend Fluctuation Analysis and Post Classifiers", 7th International Winter Conference on Brain-Computer Interface, BCI 2019.
15. **Harikumar Rajaguru**, Sunil Kumar Prabhakar, "A study on firefly algorithm for breast cancer classification", Lecture Notes in Computational Vision and Biomechanics, 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, 2019.
17. **Harikumar Rajaguru**, Vigneshkumar Arunachalam, Sunil Kumar Prabhakar, "Analysis on detection of chronic alcoholics from EEG signal segments - A comparative study between two software tools", Lecture Notes in Computational Vision and Biomechanics, 2019.
18. Bharanidharan N, **Harikumar Rajaguru**, "Classification of dementia MRI images using blended biogeography based optimization", Proceedings of the 16th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology, ECTI-CON 2019.
19. Bharanidharan N, **Harikumar Rajaguru**, "Classification of dementia using harmony search optimization technique", IEEE Region 10 Humanitarian Technology Conference, R10-HT, 2019.
20. Sannasi Chakravarthy S R, **Harikumar Rajaguru**, "Comparison analysis of linear discriminant analysis and cuckoo-search algorithm in the classification of breast cancer from digital mammograms", Asian Pacific Journal of Cancer Prevention, 2019.
21. N.Bharanidharan, **Harikumar Rajaguru**, "Comparison of particle swarm optimization and weighted artificial bee colony techniques in classification of dementia using MRI images", Lecture Notes in Computational Vision and Biomechanics, 2019.
22. **Harikumar Rajaguru**, Sunil Kumar Prabhakar, "Fuzzy c-means clustering and gaussian mixture model for epilepsy classification from EEG", Lecture Notes in Computational Vision and Biomechanics, 2019.
23. 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, 2019.

24. **Harikumar Rajaguru**, Sunil Kumar Prabhakar, "Insight to mutual information and matrix factorization with linear neural networks for epilepsy classification from EEG signals", International Journal of Mechanical Engineering and Technology, 2019.
25. Sannasi Chakravarthy S R, **Harikumar Rajaguru**, "Lung cancer detection using probabilistic neural network with modified crow-search algorithm", Asian Pacific Journal of Cancer Prevention, 2019.
26. Sunil Kumar Prabhakar, **Harikumar Rajaguru**, Seong-Whan Lee, "Metaheuristic-Based Dimensionality Reduction and Classification Analysis of PPG Signals for Interpreting Cardiovascular Disease", IEEE Access, 2019.
27. S. K. Prabhakar, **H. Rajaguru**, "PAC Bayesian classifier with finite mixture model for oral cancer classification", IFMBE Proceedings, 2019.
28. **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, 2019.
29. Karthick Ganesan, **Harikumar Rajaguru**, "Performance analysis of KNN classifier with various distance metrics method for MRI images", Advances in Intelligent Systems and Computing, 2019.
30. **Harikumar Rajaguru**, Sunil Kumar Prabhakar, "Wavelet transform analysis (HAAR and Sym8) for epilepsy classification with soft discriminant classifier", International Journal of Mechanical Engineering and Technology, 2019.
31. **Harikumar Rajaguru**, "A comparative study on genetic algorithm and ant colony algorithm for testing s27 benchmark cyclic sequential circuits", International Journal of Engineering and Advanced Technology, 2018.
32. **Harikumar Rajaguru**, Sunil Kumar Prabhakar, "A hybrid classification model using artificial bee colony with particle swarm optimization and minimum relative entropy as post classifier for epilepsy classification", Lecture Notes in Computational Vision and Biomechanics, 2018.
33. S. K. Prabhakar, **H. Rajaguru**, "Adaboost classifier with dimensionality reduction techniques for epilepsy classification from EEG", IFMBE Proceedings, 2018.
34. **Harikumar Rajaguru**, Sunil Kumar Prabhakar, "An approach to classification of oral cancer using Softmax Discriminant Classifier", Proceedings of the 2nd International Conference on Communication and Electronics Systems, ICCES, 2018.
35. **Harikumar Rajaguru**, Sunil Kumar Prabhakar, "Analysis of adaboost classifier from compressed EEG features for epilepsy detection", Proceedings of the International Conference on Computing Methodologies and Communication, ICCMC, 2018.
36. C Ganesh Babu, **R Hari Kumar**, P. Sampath, P. Bhuvaneshwari, M. Dharanya, "Analysis of Conscious Alert System from EEG data using LabView", International Conference on Computer Communication and Informatics, ICCCI, 2018.
37. **Harikumar Rajaguru**, Sunil Kumar Prabhakar, "Analysis of dimensionality reduction techniques with ABC-PSO classifier for classification of epilepsy from EEG signals", Lecture Notes in Computational Vision and Biomechanics, 2018.

38. **Harikumar Rajaguru**, Sunil Kumar Prabhakar, "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, 2018.
39. **Harikumar Rajaguru**, Sunil Kumar Prabhakar, "Analyzing dimensionality reduction with softmax discriminant classifier for epilepsy classification", Proceedings of the 2nd International Conference on Communication and Electronics Systems, ICCES, 2018.
40. **Harikumar Rajaguru**, Sunil Kumar Prabhakar, "Application of morphological filtering with modifications in linear discriminant analysis classifier for epilepsy classification from EEG signals", Lecture Notes in Computational Vision and Biomechanics, 2018.
41. **Harikumar Rajaguru**, Sunil Kumar Prabhakar, "Application of thresholding in correlation dimension for alcoholic risk level detection in EEG signals", Proceedings of the 2nd International Conference on Communication and Electronics Systems, ICCES, 2018.
42. **Harikumar Rajaguru**, "Augmented model of stacked autoencoder for image classification", International Journal of Innovative Technology and Exploring Engineering, 2018.
43. **Harikumar Rajaguru**, Sunil Kumar Prabhakar, "Bayesian linear discriminant analysis for breast cancer classification", Proceedings of the 2nd International Conference on Communication and Electronics Systems, ICCES, 2018.
44. **Harikumar Rajaguru**, Sunil Kumar Prabhakar, "Bayesian linear discriminant analysis with hybrid ABC-PSO classifier for classifying epilepsy from EEG signals", Proceedings of the International Conference on Computing Methodologies and Communication, ICCMC 2018.
45. **Harikumar Rajaguru**, Sunil Kumar Prabhakar, "Clustering with fuzzy C-Means and linear discriminant analysis for epilepsy classification", ARPN Journal of Engineering and Applied Sciences 2018.
46. **Harikumar Rajaguru**, Sunil Kumar Prabhakar, "Code converters methodology with kernel maximum uncertainty discriminant analysis for epilepsy classification", Proceedings of the 2nd International Conference on Communication and Electronics Systems, ICCES, 2018.
47. Sunil Kumar Prabhakar, **Harikumar Rajaguru**, "Comparison of fuzzy output optimization with expectation maximization algorithm and its modification for epilepsy classification", Lecture Notes in Networks and Systems, 2018.
48. Sunil Kumar Prabhakar, **Harikumar Rajaguru**, "Comparison of Isomap and matrix factorization with mahalanobis based sparse representation classifier for epilepsy classification from EEG signals", 5th IEEE Region 10 Humanitarian Technology Conference, R10-HTC, 2018.

49. **Harikumar Rajaguru**, Vigneshkumar Arunachalam, "Correlation dimension based performance analysis of alcoholic EEG data with PCA and PSO classifiers", International Journal of Recent Technology and Engineering, 2018.
50. **Harikumar Rajaguru**, Sunil Kumar Prabhakar, "E-health design with spectral analysis, linear layer neural networks and adaboost classifier for epilepsy classification from EEG signals", Lecture Notes in Computational Vision and Biomechanics, 2018.