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Area of Interest: Speech Signal Processing, Medical Imaging, Wireless Communications

List of Publications:

1. Mythili S, **Kalamani M**, "A Predictive Analysis of Communication Protocols on Various Transmission Media using NS2", Test Engineering and Management, vol.82, no. Jan-Feb 2020, pp.5478-5484, January 2020 (SCOPUS).

2. **M.Kalamani**, P.Deepika, P.Vishalini, "Brain Tumor detection and Classification using Machine Learning Algorithms", in the proceeding of International Conference on Science, Technology, Engineering and Management (ICSTEM'20) conducted by Kalaignar Karunanidhi Institute of Technology, Coimbatore during 13th – 14th March, 2020.

3. **M.Kalamani**, M.Krishnamoorthi, R.Harikumar, R.S.Valarmathi, "Swarm Intelligence based Feature Clustering for Continuous Speech Recognition under Noisy Environments", in the proceeding of Springer 3 rd International Conference on Computational Vision and Bio Inspired Computing (ICCVBIC 2019) conducted by RVS Technical Campus, Coimbatore during 25th – 26th September, 2019 (SCOPUS).

4. M.Deeparani, P.E. Kamalakkannan, R. Baby Janagam, **M.Kalamani**, "Internet of Things and Healthcare Systems", International Journal of Innovative Technology and Exploring Engineering (IJITEE), vol.8, no.12, pp.1844-1848, Oct 2019 (SCOPUS).

5. **M.Kalamani**, M.Krishnamoorthi, R.S.Valarmathi, "Continuous Tamil Speech Recognition Technique under Non Stationary Noisy Environments", International Journal of Speech Technology, vol.22, no.1, pp.47-58, March 2019. (Springer Publishers, SCOPUS/SCI Index/Web of Science).

6. **M.Kalamani**, M.Krishnamoorthi, R.S.Valarmathi, "Fuzzy C-Means Clustering Technique for Continuous Tamil Speech Recognition under Noisy Environments", in the proceeding of 3 rd IEEE International Conference on Communication and Electronics Systems (ICCES-2018) conducted by PPG Institute of Technology, Coimbatore during 15th -16th October, 2018 (SCOPUS).

7. Deeparani M, **Kalamani M**, Krishnamoorthi M, "A Survey On Ultrasound Image Segmentation Algorithm for Detection of Female Pelvic Masses", International Journal of Recent Technology and Engineering, Nov 2018 (SCOPUS).

8. Nithya.K, Krishnamoorthi.M, **Kalamani.M**, "Tweets: Review of Micro-blog based Recommendation Systems (RS) for News Recommendation (NR)", International Journal of Recent Technology and Engineering Nov 2018 (SCOPUS).

9. Deepakfranklin P, Krishnamoorthi M, **Kalamani M**, "Contact and Non- Contact methods of photo plethysmography", International Journal of Engineering and Advanced Technology, vol.8, no.2s, pp. 378-383, Dec 2018 (SCOPUS).

10. **Kalamani M**, Krishnamoorthi M, Valarmathi R S, Shalini E, Karthic N, "Design of Compact Square Ring Slot Antenna for Ultra Wide Band and Radar Applications", International Journal of Engineering and Advanced Technology, vol.8, no.2s, pp. 54-57, Dec 2018 (SCOPUS).

11. **M.Kalamani**, M.Krishnamoorthi, R.S.Valarmathi, "Modified Least Mean Square Adaptive Noise Reduction algorithm for Tamil Speech Signal under Noisy Environments", International Journal of Pure and Applied Mathematics, vol.119, no. 16b, pp.4461-4466, 2018 (SCOPUS).

12. **M.Kalamani**, M.Krishnamoorthi, R.S.Valarmathi, "Continuous Speech Recognition Using Gaussian Mixture Model", International Journal of Pure and Applied Mathematics, vol.119, no. 16b, pp. 4513-4518, 2018 (SCOPUS).

13. **M.Kalamani**, M.Krishnamoorthi, R.S.Valarmathi, "Feature Clustering and Labelling Technique for Continuous Speech Recognition", in the proceeding of 9 th International Conference on Recent Development in Engineering Science, Humanities and Management, Pune on 23rd December 2017.

14. **M.Kalamani**, M.Krishnamoorthi, R.S.Valarmathi, "Delta Mel Frequency Ceptral Coefficient based Feature Extraction Algorithm for Continuous Tamil Speech Recognition", CiiT journal of Digital Signal Processing, vol 9, no 9, pp: 177 –184 November – December, 2017.

15. **M.Kalamani**, M.Krishnamoorthi, R.S.Valarmathi, "Feature Clustering and Labelling Technique for Continuous Speech Recognition", International Journal of Advance Research in Science and Engineering, vol.6, no.12, December 2017 (IF-2.83).

16. M.Krishnamoorthi, **M.Kalamani**, "Hybrid Clustering Using Firefly Optimization and Fuzzy C-Means Algorithm", Circuits and Systems, Vol.7 No.9, PP 2339-2348, 2016.   (IF-1.07, Web of Science)

17. M.Krishnamoorthi, **M.Kalamani**, "Hybrid Clustering using Firefly Optimization Technique and K-Means Algorithm", Asian Journal of Research in Social Sciences and Humanities, Vol. 6, No. 8, pp. 948-959, 2016.

18. **Kalamani M**, Aravinth K, "Face Recognition Using Multi-View Videos", in the proceeding of 3 rd IEEE International Conference on Innovations in Information Embedded and

Communication Systems-2016 (ICIIECS-2016) conducted by Karpagam College of Engineering, Coimbatore during 17 th – 18 th March, 2016, vol. 8, pp.164-167.

19. **M.Kalamani**, Dr.S.Valarmathy, S.Anitha, "Modified Speech Segmentation Algorithm for Continuous Speech Recognition", International Journal of Advanced Research Trends in Engineering and Technology (IJARTET) vol. II, Special Issue VIII, February 2015, pp.1-5.

20. **M.Kalamani**, Dr.S.Valarmathy, S.Anitha, "Hybrid Speech Segmentation Algorithm for Continuous Speech Recognition", International Journal on Applications of Information and Communication Engineering, vol.1, no.1, pp.39-46, January 2015.

21. **M.Kalamani**, Dr.S.Valarmathy, S.Anitha, "Automatic Speech Recognition using ELM and KNN Classifiers", International Journal of Innovative Research in Computer and Communication Engineering, vol. 3, no. 4, April 2015.

22. **M.Kalamani**, S.Valarmathy, M.Krishnamoorthi, "Noise Tracking Algorithm for Speech Enhancement", Applied Mathematics and Information Sciences, vol.9, no.2, pp.691-698, March 2015. (Natural Science Publishers, IF-1.232, SCOPUS).

23. **Kalamani M**, Valarmathy S, Anitha S, "Improved Classifier and Speech Segmentation Algorithm for Automatic Speech Recognition", in the proceeding of International Conference on Electrical, Electronics and Computer Communication (ICEECE'15) conducted by Vivekanandha College of Engineering for Women, Tiruchengode during 11th – 12th March, 2015, pp.EC379:422-429.