

- [6] P. Howell, S. Sackin, K. Glenn, "Development of a two-stage procedure for the automatic recognition of dysfluencies in the speech of children who stutter: II. ANN recognition of repetitions and prolongations with supplied word Segment markers", Journal of Speech, Language, and Hearing Research, Vol. 40, 1997.
- [7] M. Wisniewski, W. Kuniszyk-J_o_zkowiak, E. Smolka, W. Suszynski, "Automatic detection of prolonged fricative phonemes with the hidden Markov models approach", Journal of Medical Informatics & Technologies, Vol. 11, 2007.
- [8] M. Wisniewski, W. Kuniszyk-J_o_zkowiak, E. Smolka, "Automatic detection of disorders in a continuous speech with the hidden Markov models approach", Proceedings of Computer Recognition Systems 2, Vol. 45, 2008.
- [9] Tian-Swee Tan, Helbin-Liboh, A. K. Ariff, Chee-Ming Ting and Sh-Hussain Salleh, "Application of Malay Speech Technology in Malay Speech Therapy Assistance Tools", 2007
- [10] I. Swietlicka, W. Kuniszyk-J_o_zkowiak, E. Smolka, "Artificial neural networks in the disabled speech analysis", Proceedings of Computer Recognition System 3, Vol. 57, 2009.
- [11] K.M. Ravikumar, R. Rajagopal, H.C. Nagaraj, "An approach for objective assessment of stuttered speech using MFCC features", ICGST International Journal on Digital Signal Processing, Vol. 9, 2009.
- [12] L. Sin Chee, O. Chia Ai, M. Hariharan, "MFCC based recognition of repetitions and prolongations in stuttered speech using k-NN and LDA", Proceedings of IEEE Student Conference on Research and Development, 2009.
- [13] L. Sin Chee, O. Chia Ai, M. Hariharan, S. Yaacob, "Automatic detection of prolongations and repetitions using LPCC", Proceedings of IEEE International Conference on Technical Postgraduates, 2009.
- [14] Ireneusz Codello, W. Kuniszyk-Józkowiak, "Disordered sound repetition recognition in ' continuous speech using CWT and Kohonen network", 2011
- [15] Wiśniewski M. , Kuniszyk-Józkowiak W, "Automatic detection and classification of phoneme repetitions using HTK toolkit", 2011
- [16] M. Hariharan, L. Sin Chee, S. Yaacob, "Classification of speech dysfluencies using LPC based parameterization techniques", Journal of Medical Systems, Vol. 36, 2012
- [17] Izabela Swietlicka, Wiesława Kuniszyk-Józkowiak, Elzbieta Smolka, "Hierarchical ANN system for stuttering identification", 2013
- [18] Marek WISNIEWSKI, Wiesława Kuniszyk-Józkowiak, "Automatic Detection of Stuttering in a Speech", 2015
- [19] P. Mahesha, D.S. Vinod, "Automatic Segmentation and Classification of Dysfluencies in Stuttering Speech", 2016
- [20] S. Girirajan, R. Sangeetha, T. Preethi, A. Chinnappa, "Automatic Speech Recognition with Stuttering Speech Removal using Long Short-Term Memory (LSTM)", 2020
- [21] Tedd Kourkounakis, Amirhossein Hajavi, Ali Etemad, "Detecting multiple speech disfluencies using a deep residual network with bidirectional long short-term memory", 2019
- [22] Tedd Kourkounakis, Amirhossein Hajavi, and Ali Etemad, "FluentNet: End-to-End Detection of Speech Disfluency with Deep Learning", 2020
- [23] Sparsh Garg, "Transfer Learning based Disfluency Detection using Stuttered Speech", Speech Processing Laboratory, International Institute of Information Technology, Hyderabad, India, 2020
- [24] Shakeel Ahmad Sheikh, Md Sahidullah, Fabrice Hirsch, Slim Ouni "StutterNet: Stuttering Detection Using Time Delay Neural Network", 2021
- [25] G. Diwakar, "Repetition Detection in Dysarthric Speech", IEEE, 2017
- [26] Pravin B. Ramteke, "Repetition Detection in Stuttered Speech", Proceedings of 3rd International Conference on Advanced Computing, Networking, 2016
- [27] K.B. Drakshayini, Anusuya M.A Stop gap removal using spectral parameters for stuttered speech signal, International Journal of Advanced Trends in Computer Science and Engineering, 2021
- [28] K B Drakshayini, Anusuya M A, "Hybrid Approach to Detect Prolonged Speech Segments", International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249-8958 (Online), Volume-12 Issue-4, April 2023
- [29] Salsabil Besbes "Multitaper MFCC Features for Acoustic Stress Recognition from Speech", International Journal of Advanced Computer Science and Applications, 2017
- [30] P. Mahesha, "Support vector machine-based stuttering dysfluency classification using GMM supervectors", International Journal of Grid and Utility Computing, 2015

Authors Profile



K B Drakshayini is a research scholar of VTU Belgaum working under the guidance of Dr. Anusuya M A on stuttering Speech signal processing. Completed M.Tech in NIE, Mysore and bachelor degree in Vidya Vardhaka college of Engineering. She has total of 15 years of experience in teaching in Vidya Vikas institute of Engineering. Published Papers in National/International journals and conferences in research field. Area of interest are Speech signal Processing, Data science, Machine learning



Dr. Anusuya M A is having M. Tech and PhD qualification in Computer Science and Engineering with specific research interest in the field of Speech signal processing. She has total 25 years of teaching experience and published around 60 papers in International / national journals and Conferences with special recognitions. Presently working as Associate Professor in JSS science and technological university, Mysore. Area of interest are Pattern Recognition, Speech Signal Processing, Machine learning, Machine Translation, Fuzzy based

Mathematical modelling.