



Nalini Singh, Ph.D.

Designation : Senior Assistant Professor
Department : Department of Electronics Engineering
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RESEARCH INTERESTS

- ✓ Biomedical Signal Processing
- ✓ Biomedical Image Processing
- ✓ Biomedical Instrumentation
- ✓ Machine Learning and its Applications

Academic Qualifications

Ph.D. in Information & Communication Technology, F. M. University, Odisha

M. Tech in Communication System, KIIT University, Odisha.

B. Tech in Applied Electronics and Instrumentation, BPUT, Odisha.

Teaching Experience/Industrial Experience/Research Experience

- ✓ Teaching Experience : 17years
- ✓ Research Experience : 9 years

PUBLICATIONS

JOURNAL ARTICLES

JOURNALARTICLES & CONFERENCE PAPERS

- [1]. Nalini Singh, and Satchidananda Dehuri, "Multiclass Classification of EEG Signal for Epilepsy Detection Using DWT Based SVD and Fuzzy KNN Classifier," intelligent Decision Technology (IOS Press), pp. 239-252, 2020.
- [2]. Nalini Singh and Satchidananda Dehuri, "Epilepsy Detection from Electroencephalogram Signal using Singular Value Decomposition and Extreme Learning Machine Classifier", Int. J. Biomedical Engineering and Technology, Vol. 39, No. 1, 2022.
- [3]. Nalini Singh, Ambarish G. Mopatra, and Gurukalyan Kanungo, 'Breast Cancer Mass Detection in Mammograms using K-means and Fuzzy C-means Clustering', International Journal of Computer Applications, vol. 22, No.2, 2011.
- [4]. Nalini Singh, Ambarish G Mohapatra, Biranchi Narayan Rath, and Guru Kalyan Kanungo, "GUI Based Automatic Breast Cancer Mass and Calcification Detection in Mammogram Images using K-means and Fuzzy C-means Methods", International Journal of Machine Learning and Computing, Vol. 2, No. 1, 2012.

CONFERENCE PAPERS

- [1]. Guru Kalyan Kanungo, Nalini Singh, and Annapurna Mishra, "Mammogram Image Segmentation Using Hybridization Of Fuzzy Clustering and Optimization Algorithms", 2nd International conference on Recent Trends in Engineering and Technology, 2013.
- [2]. Guru Kalyan Kanungo, Nalini Singh, Judhithir Dash, and Annapurna Mishra "Mammogram Image Segmentation Using Hybridization of Fuzzy Clustering and Optimization Algorithms", Advances in Intelligent Systems and Computing ((AISC, volume 309)), pp.403-413, 2014.
- [3]. N. Singh, S. Dehuri, D. Tripathy and A. B. Sahoo, "Real Time Heart Beat Monitoring With Labview," 2021 19th OITS International Conference On Information Technology (OCIT), Bhubaneswar, India, 2021, Pp. 10-13, Doi: 10.1109/Ocit53463.2021.00014.
- [4]. Nalini Singh and SatchidanandaDehuri, "Usage of Deep Learning in Epileptic Seizure Detection Through EEG Signal", Nanoelectronics, Circuits, and Communication Systems, Lecture Notes in Electrical Engineering 511, pp:219-228, 2019.

ANY OTHER

BOOK CHAPTER CONFERENCES ATTENDED

- [1]. N. Singh, and S. Dehuri, "Usage of Deep Learning in Epileptic Seizure Detection Through EEG Signal, Lecture Notes in Electrical Engineering book series (LNEE, volume 511), Springer Link, 2018.