Nalini Singh, Ph.D.

Designation : Senior Assistant Professor

Department : Department of Electronics & Communication Engg.

(JOINED THE INSTITUTE IN YEAR 2007)

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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 DetectionUsing DWT Based SVD and Fuzzy KNN Classifier," intelligent Decision Technology (IOS Press), pp. 239-252, 2020.

[2]. Nalini Singh and Satchidananda Dehury, "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 Mammogramsusing 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 BasedAutomaticBreast Cancer Mass and Calcification Detection in Mammogram Images using K-means and Fuzzy C-meansMethods", 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, Judhisthir 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.