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Designation: Asst. Professor
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RESEARCH INTERESTS

Signal Processing, Image Processing, Genome Engg.

Academic Qualifications

Ph. D. (Electronics), KIIT University, India
M. Tech. (Communication & System Engineering) VSSUT, India
Specialization: Signal Processing.

Teaching Experience/Industrial Experience/Research Experience

- ✓ OTR(1 year)
- ✓ IHS (1 year)
- ✓ TAT(1 year)
- ✓ NMIET(1 year)
- ✓ CEB(8 years)
- ✓ Research(6 years)

PUBLICATIONS

JOURNAL & CONFERENCES

JOURNALS

1. L. Das, S. Nanda, and J. K. Das, "An integrated approach for identification of exon locations using recursive Gauss Newton tuned adaptive Kaiser window," *Genomics, ELSEVIER (SCI)* Volume 111, Year 2019, Pages 284-296

[DOI:10.1016/j.ygeno.2018.10.008](https://doi.org/10.1016/j.ygeno.2018.10.008)

2. L. Das, J. K. Das, and S. Nanda, "Hereditary Disease Prediction in Eukaryotic DNA: an Adaptive Signal Processing Approach"- *Nucleosides, Nucleotides & Nucleic Acids (Taylor- Francis) (SCIE)*
Volume 39, Year 2020, Pages 1179-1199
[DOI:10.1080/15257770.2020.1780440](https://doi.org/10.1080/15257770.2020.1780440)
3. L.Das, Anand Kumar, J.K. Das,S. Nanda, Modified Gabor Wavelet Transform in Prediction of Cancerous Genes, IJEAT, 902-907.(SCOPUS) International Journal of Engineering and Advanced Technology, **Volume 9, Year 2019, Pages 902-907**
[DOI:10.35940/ijeat.A9417.109119](https://doi.org/10.35940/ijeat.A9417.109119)
4. L. Das, J. K. Das, and S. Nanda, "Detection of Exon Location in Eukaryotic DNA using a Fuzzy Adaptive Gabor Wavelet Transform"-*Genomics (Elsevier)- (SCI)* **Volume 112, Year 2020, Pages 4406-4416**
[DOI:10.1016/j.ygeno.2020.07.020](https://doi.org/10.1016/j.ygeno.2020.07.020)
5. L. Das, J. K. Das, S. Mohapatra, and S. Nanda, "DNA Numerical Encoding Schemes for Exon Prediction: A Recent History"-- *Nucleosides, Nucleotides & Nucleic Acids -- (Taylor and Francis) -(SCI)* 2021
6. L. Das, J. K. Das, and S. Nanda,. An Adaptive Neural Network Model for Predicting Breast Cancer Disease in Mapped Nucleotide Sequences. *Iranian Journal of Science and Technology, Transactions of Electrical Engineering (Springer) (SCI)* 2023 <https://doi.org/10.1007/s40998-023-00619-4>

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- [1] L. Das, J. K. Das, and S. Nanda, "Identification of exon location applying kaiser window and DFT techniques," in *2nd International Conference for Convergence in Technology, (I2CT), 2017*,
[DOI:10.1109/I2CT.2017.8226123](https://doi.org/10.1109/I2CT.2017.8226123)
- [2] L. Das, S. Nanda, and J. K. Das, "A novel DNA mapping scheme for improved exon prediction using digital filters," in *Proceedings - 2017 2nd International Conference on Man and Machine Interfacing, MAMI 2017, Volume 2018-March*,
[DOI:10.1109/MAMI.2017.8307889](https://doi.org/10.1109/MAMI.2017.8307889)
- [3] L. Das, J. K. Das, and S. Nanda, "Advanced protein coding region prediction applying robust SVD algorithm," in *Proceedings - 2017 2nd International Conference on Man and Machine Interfacing, MAMI 2017, Volume 2018-March*,
[DOI:10.1109/MAMI.2017.8307887](https://doi.org/10.1109/MAMI.2017.8307887)
- [4] L. Das, J. K. Das, S. Nanda, and S. Mohapatra, "DNA Coding Sequence Prediction: A Review," in *2018 International Conference on Applied Electromagnetics, Signal Processing and Communication (AESPC), 2018*,
[DOI:10.1109/AESPC44649.2018.9033278](https://doi.org/10.1109/AESPC44649.2018.9033278)
- [5] L. Das, A. Kumar, S. Nanda, and J. K. Das, "Improved Protein Coding

Region Prediction using Dipole Moment based SVD Algorithm,” in *2019 Proceedings of 5th IEEE International Conference on Signal Processing, Computing and Control (ISPCC)*

[DOI:10.1109/ISPCC48220.2019.8988320](https://doi.org/10.1109/ISPCC48220.2019.8988320)

[6] L. Das, J. K. Das, and S. Nanda, “Effective identification and Prediction of Breast-Cancer Gene Using Volterra Based LMS/F Adaptive Filter”, in *4th International Conference On Advanced Computing And Intelligent Engineering(ICACIE) December, 2019-*

[7] “Signal Processing applications on genomic signals”, ISCA-2016. (Poster presentation)

[8] “Signal Processing Approaches for Encoded Protein Sequences in Gynecological Cancer Hotspot Prediction: A Review” International Conference on Metaheuristics in Software Engineering and its applications (METASOFT 2022), Springer, SOA University,

[9] “Adaptive Wavelet Transform Based Protein Coding Region Prediction in DNA sequence”,CCPIS(2023),IEEEconference,SIT,Bubaneswar

ANY OTHER

Books Published

- 1.Mobile Communication, SCITEC Publication, 2010
- 2.Network Theory,2004