



Lopamudra Das, Ph.D.

Designation : Assistant Professor

Department : Department of Electronics & Communication Engineering
(JOINED THE INSTITUTE IN YEAR 2023)

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RESEARCH INTERESTS

- ✓ Signal Processing,
- ✓ Image processing
- ✓ GSP

Academic Qualifications

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

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

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
- [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
- [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

- [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
- [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 Volume 40(10), Year 2021, Pages 985-1017 doi.org/10.1080/15257770.2021.1966797
- [6] Das, L., Das, J. K., Nanda, S. et al. "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)* Year 2023, Volume (47), Pages 1569–1582 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
- [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
- [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
- [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
- [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
- [6] L. Das, J. K. Das, and S. Nanda, "Effective identification and Prediction of Breast-Cancer Gene Using Volterra Based LMS/F Adaptive Filter", *Progress in Advanced Computing and Intelligent Engineering: Proceedings of ICACIE*, Volume 2. Singapore: Springer, year 2020, Pages 305-314. Springer, Singapore. https://doi.org/10.1007/978-981-15-6353-9_27
- [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, IEEE Conference on Metaheuristics in Software Engineering and its applications (METASOFT 2022), Springer, SOA University,

BOOK CHAPTER

- [9] "Adaptive Wavelet Transform Based Protein Coding Region Prediction in DNAsequence",InternationalIEEE conference on Circuits, Power and Intelligent Systems (CCPIS)CCPIS Year 2023
doi: 10.1109/CCPIS59145.2023.10291223
- [1] Lopamudra Das, Aruna Tripathy, Sarita Nanda, and J. K. DasChapter 6: "The Computational Techniques In Mutational Disease Prediction: AComprehensive and Comparative Review" Book : Computational Intelligence for Oncology and Neurological Disorders1st Edition Year 2024 CRC Press Pages16 eBook ISBN9781003450153 (Taylor and Francis)

BOOKS PUBLISHED:

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