



## Dhananjaya Tripathy, M.Tech.

**Designation** : Asst. Professor  
**Department** : Department of Electronics Engineering  
(JOINED THE INSTITUTE IN 2014)  
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### RESEARCH INTERESTS

- ✓ VLSI Design
- ✓ Semiconductor Device

### Or As Paragraph

### Academic Qualifications

M. Tech In VLSI Signal Processing, VSSUT, Odisha.

B.Tech in Applied Electronics & Instrumentation Engg, CVRCE, Odisha.

### Teaching Experience/Industrial Experience/Research Experience

- ✓ Teaching&Researchexperience - 12years

## PUBLICATIONS

### JOURNALS:

- [1]. D. Nayak, P. K. Rout, S. S, D. P. Acharya, U. Nanda and **D. Tripathy**, " A novel indirect read technique based SRAM with ability to charge recycle and differential read for low power consumption, high stability and performance", in Proc. of **Microelectronics** Journal (2020).
- [2]. **D. Tripathy**, D. P. Acharya, P. K. Rout, S. M. Biswal," Influence of oxide thickness variation on analog and RF performances of SOI FinFET", **FUEE** Journal.

### CONFERENCES:

- [1]. **D.Tripathy**, S.S.Rout, K.Sethi, "A low power noise cancelling LNA for UWB receiver frontend", in Proc. Of **IEEE** Power, Communication and Information Technology Conference (PCITC), pp.442-446, Sept. 2015, Odisha, India
- [2]. **D. Tripathy**, T. Manasneha, V. Das, " A single ended TG based 8T SRAM with increased stability and lessdelay", in Proc. Of **IEEE** Recent Trends in Electronics, Information and Communication Technology (RTEICT), pp.1282-1285, May-2017, Bangaluru , India
- [3]. **D.Tripathy**, P.Bhadra, " A High Speed Two Stage Operational Amplifier with High CMRR", in Proc. Of **IEEE** Recent Trends in Electronics, Information and Communication Technology (RTEICT), May-2018, Bangaluru, India

- [4]. **D.Tripathy**, D. Nayak, S. M. Biswal , S.K. Swain, B.Baral and S.K.Das“ A Low Power LNA using Current Reused Technique for UWB Application”, in Proc. of **IEEE Devices for Integrated Circuits (DevIC)**, Mar-2019, kolkata, India.
- [5]. D. Nayak, U. Nanda, P.K. Rout, **D.Tripathy**, S.M. Biswal, S.K. Swain, B. Baral and S.K. Das,“ A Novel Driver less SRAM with Indirect Read for Low Energy Consumption and Read Noise Elimination”, in Proc. of **IEEE Devices for Integrated Circuits(DevIC)**, Mar-2019, kolkata,India.
- [6]. B. Baral, S.M. Biswal, S.K. Swain, D. Nayak, S.K. Das,and**D.Tripathy**, “ RF/Analog & Linearity performance analysis of a downscaled JL DG MOSFET on GaAs substrate for Analog/mixed signal SOC applications”, in Proc. of **IEEE Devices for Integrated Circuits (DevIC)**, Mar-2019, kolkata,India.
- [7]. S. K. Swain, S. K. Das, S.M. Biswal, S. Adak, U. Nanda, A. A. Sahoo, D. Nayak, B. Baral and **D.Tripathy**, “ Effect of High-K Spacer on the Performance of Non-Uniformly doped DG-MOSFET”, in Proc. of**IEEEDevices for Integrated Circuits(DevIC)**, Mar-2019, kolkata,India.
- [8]. S.K. Das, S. K. Swain, S.M. Biswal, D. Nayak, U. Nanda, B. Baral and **D.Tripathy**, “Effect of High-K Spacer on the Performance of Gate-Stack Uniformly doped DG-MOSFET”, in Proc. of **IEEE Devices for Integrated Circuits (DevIC)**, Mar-2019, kolkata, India.
- [9]. S.M. Biswal, S.K. Swain, B. Baral, D. Nayak, U. Nanda, S.K. Das and **D.Tripathy**, “Performance Analysis of Staggeredheterojunctionbased SRG TFET biosensor for health IoT application”, in Proc. of **IEEE Devices for Integrated Circuits(DevIC)**, Mar-2019, kolkata,India.
- [10]. S. Sarangi, **D. Tripathy**, S.S. Mahapatra, and S.Rout“ A Power and Area Efficient CMOS Bandgap Reference Circuith with an integrated Voltage Reference Branch”, in Proc. of **Springer Modelling, Simulation, Intelligent Computing (MoSICom-2020)**, BITS-Pilani Dubai Campus.
- [11]. **D. Tripathy**, P.K. Rout, D. Nayak, S. M. Biswal, N. Singh“ The impact of oxide layer width variation on the performance parameters of FinFET”, in Proc. of**IEEEDevices for Integrated Circuits(DevIC)**, May-2021, kolkata,India.
- [12]. **D. Tripathy**, D.P. Acharya, P.K. Rout and D. Nayak “ The impact of GATE thickness variation on FinFET performance parameters”, in Proc. of **IEEE OITS International Conference on Information Technology (OCIT)**, Dec-2021, Odisha, India.
- [13]. N. Singh, S. Dehuri, **D. Tripathy** and A. B. Sahoo, “ Real Time Heart Beat Monitoring with LABVIEW”, in Proc. of **IEEE OITS International Conference on Information Technology (OCIT)**, Dec-2021, Odisha, India, 10.1109/OCIT53463.2021.00014.
- [14]. A. K. Tiwary, P.K. Rout, **D. Tripathy** and D. Nayak, “ ECG Heartbeat Signal Classification and Detection of CardiacAbnormalitiesusing Deep Learning”, in Proc. of **IEEE Conference on Circuits, Power and Intelligent Systems (CCPIS)**, Sep-2023, Odisha, India, 10.1109/CCPIS59145.2023.10291586.
- [15]. D. P. Pradhan, **D. Tripathy**, S. K. Mohanta and S. M. Biswal, “ Intelligent Plant Monitoring System”, in Proc. of **IEEE Conference on Circuits, Power and Intelligent Systems (CCPIS)**, Sep-2023, Odisha, India, 10.1109/CCPIS59145.2023.10291268.

## ANY OTHER

### BOOK CHAPTER

#### BOOK CHAPTER:

- [1]. S.S.Rout, **D.Tripathy**,K.Sethi, “An improved bulk injection cascode mixer for receiver frontend ” in National Conferenceon Device and circuits (IEEE ), pp. 37-41, Feb. 2016, Odisha ,India

**PROJECTS:**

- [1]. Design and fabrication of a low power area optimized bandgap reference circuit in XFAB technology for IoT application.

**CONFERENCES  
ATTENDED**