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Academic:

Degree	Course
Graduation	B.E. Tripura Institute of Technology (2018), Department of Electronics and Telecommunication Engineering.
Post-Graduation	M.Tech, Tripura University (2020), Department of Electronics and Communication Engineering.
Ph.D.	Tripura University (Pursuing), Department of Electronics and Communication Engineering, (Optical fiber communication and Photonics).

Publication:

Types	Remark	Number	SCI/Scopus/UGC-care
Journal	Published	6	7
Journal	Accepted	1	
Conferences	Published	5	-
Conferences	Accepted	2	
Book Chapter	Accepted	1	

Key skill & Knowledge

- Matlab/Octave
- Python
- C/C++
- HTML
- Comsol
- Lumerical

Journal

- [1]. Singha, Satyabrata, Sanjukta Bhowmik, **Nitish Sinha**, and Bishanka Brata Bhowmik. "Optical 8-ary phase shift keying modulation format generator based on three microring modulators." *Microwave and Optical Technology Letters* 64, no. 4 (2022): 821-826.
- [2]. Singha, Satyabrata, Bishanka Brata Bhowmik, and **Nitish Sinha**. "Performance evaluation of microring modulator based two-circular 16QAM modulator under amplitude spontaneous emission noise." *Optical Engineering* 59, no. 3 (2020): 036102-036102.
- [3]. Das, Srikanta, **Nitish Sinha**, Arka Roy Bin, Jayanta Kumar Rakshit, Subhradeep Pal, and Bishanka Brata Bhowmik. "Microring Assisted Mach–Zehnder Interferometric Structure Based Electro-Optic Adder for Photonic Integrated Circuits." (2023).
- [4]. Das, Srikanta, **Nitish Sinha**, Subhradeep Pal, and Bishanka Brata Bhowmik. "An electro-optic reconfigurable OR to Ex-OR gate based on microring resonator loaded on Mach–Zehnder interferometric structure." *Results in Optics* 9 (2022): 100299. (Accepted)
- [5]. **Nitish Sinha** and Bishanka Brata Bhowmik. Digital Signal Processing Based Laser Phase Noise Compensation at Coherent Optical Quadrature Phase-Shift Keying Receiver Using K-means Clustering and Viterbi-Viterbi Method Jointly, Vol. 8, No. 5 October 2019
- [6]. Debnath, Suman, **Nitish Sinha**, and Bishanka Brata Bhowmik. "ML based modulation format identifier using K-NN algorithm." *Materials Today*: (2022): 2626-2630.
- [7]. Debnath, Tanmoy, Satyabrata Singha, **Nitish Sinha**, and Bishanka Brata Bhowmik. "Proposal of micro-ring resonator based PAM-4 modulator with variable ER." *Materials Today*: (2022): 2851-2854.

Conferences

- [1]. Singha, Satyabrata, **Nitish Sinha**, Srikanta Das, Suman Debnath, and Bishanka Brata Bhowmik. "Re-configurable higher order optical modulation format generator based on microring modulator." In *2021 IEEE International Conference on Telecommunications and Photonics (ICTP)*, pp. 1-4. IEEE, 2021.
- [2]. Singha, Satyabrata, Bishanka Brata Bhowmik, and **Nitish Sinha**. "Error probability analysis of hexagonal 16qam." In *Computers and Devices for Communication: Proceedings of CODEC 2019*, pp. 227-232. Springer Singapore, 2021.
- [3]. **Sinha, Nitish**, Sanjukta Bhowmik, Satyabrata Singha, and Bishanka Brata Bhowmik. "Dual modulation of qpsk and ook using silicon microring modulator." In *Proceedings of the International Conference on Computing and Communication Systems: I3CS 2020, NEHU, Shillong, India*, pp. 531-537. Springer Singapore, 2021.
- [4]. **Sinha, Nitish**, Suman Debnath, Rajat Kumar Das, and Bishanka Brata Bhowmik and Sangita Choudhury. "Visual Representation of COVID-19 Outbreak in India." (2021).
- [5]. **Nitish Sinha**, Suman Debnath, Srikanta Das and Bishanka Brata Bhowmik. "A Novel Approach to 1:N Binary Bit Addition Using Optical Electroabsorption Micro-Ring". (Accepted)
- [6]. Srikanta Das, **Nitish Sinha**, Suman Debnath Bishanka Brata Bhowmik. "Wavelength depended half adder using ring"

Declaration

I do hereby declare that all the statement furnished above are true and complete to the best of my knowledge and belief.

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