



Mr Tirthadip Sinha

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Expertise

Telecommunications

Analog and Digital Communication Engineering, Wireless Communication and Networks, Satellite Communication, Optical Communication, Digital Signal Processing, Microprocessors and Microcontrollers, Error Correcting Codes, Internet of Things.

Work experience

1. Haldia Institute of Technology 2009 — Present

Assistant Professor (Grade-III)
Purba Medinipur

Education

1. M.E. (ETCE) - 2009

Jadavpur University

2. B.Tech (ECE) - 2005

West Bengal University of Technology

Honours and Awards

1. NPTEL Top Performing Mentor - 2019

NPTEL-SWAYAM

2. Lab Migration Project, FOSSEE, IIT Bombay - 2015

IIT Bombay

3. Spoken-Tutorial Project, IIT Bombay (RC Incharge, STRC-HIT) - 2014

IIT Bombay

4. Pre-Matric Scholarship - 1996

Govt. of West Bengal

Membership In Professional Bodies

1. Indian Society for Technical Education (ISTE), 2025

Life Member

2. Internet of Things (IoT) Technical Community, IEEE, 2024

Member

3. The Institution of Engineers India (IEI), 2015

Life-Member (MIE)

4. The Society of Digital Information and Wireless Communications (SDIWC), 2014

Life-Member

5. Univ. Assoc. of Comp. and Electronics Engineers (UACEE), 2013

Life-Member

6. International Association of Engineers (IAENG), 2012

Life-Member

7. Institute of Research Engineers and Doctors (IRED), 2011

Member

8. International Journal of Application or Innovation in Engineering & Management (IJAIEM), 2010

Editorial Board Member

Membership In Committees

1. Publication Committee, HIT, 2024
Member
2. Anti-ragging Squad, HIT, 2024
Member
3. ICCDC 2023 Conference, 2023
Program Chair
4. ICCDC 2021 Conference, 2021
Program Chair
5. ICCDC 2019 Conference, 2019
Program Chair
6. Institutional Students Welfare Committee, 2018
Member
7. WBJEEB, 2018
Observer
8. Institutional Cultural Committee, 2017
Member
9. Institutional Publication Committee, 2016
Member
10. ACSP 2015 FDP, 2015
Coordinator

Patent

1. IOT BASED OZONE MONITORING SYSTEM
Inventor(s): Tirthadip Sinha, Assignee: Tirthadip Sinha
Published: 0000-00-00

2. ROBOT FOR INVENTORY MANAGEMENT

Inventor(s): Tirthadip Sinha, Assignee: Tirthadip Sinha

Published: 0000-00-00

3. IOT BASED EFFICIENT AND SECURE MEDICAL DATA TRANSMISSION IN HEALTH CARE APPLICATIONS

Inventor(s): Tirthadip Sinha, Assignee: Tirthadip Sinha

Published: 0000-00-00

4. SMART WASTE MANAGEMENT FOR GREEN ENVIRONMENT

Inventor(s): TIRTHADIP SINHA, Assignee: TIRTHADIP SINHA

Published: 0000-00-00

Publication

1. Performance Analysis of NR Polar Codes at Short Information Blocks for Control Channels

Sinha T.;Bhaumik J.

Wireless Personal Communications, Volume 138, Year 2024, Pages 879-890

2. Study and Accurate Estimation of the Far Field Profile in Kerr Type Nonlinear Parabolic Index Optical Fiber for the First Higher Order (LP11) Mode Using Power Series Expansion Method Based on Chebyshev Technique

Kushal Roy;Avisankar Roy;Surajit Mukherjee;Dibyendu Choudhury;Tirthadip Sinha;Subhashree Choudhury

2023 International Conference in Advances in Power, Signal, and Information Technology, APSIT 2023, Volume , Year 2023, Pages 745-750

3. Efficient and Novel Architecture of Golay Encoder and Decoder for McEliece Cryptosystem

Tirthadip Sinha, Jaydeb Bhaumik

Lecture Notes in Electrical Engineering, Volume 1046 LNEE, Year 2023, Pages 547-561

4. Error-rate analysis of polar code designs using genetic algorithm for additive white Gaussian noise channel

Tirthadip Sinha, Jaydeb Bhaumik

International Journal of Communication Systems, Volume , Year 2023, Pages

5. Error-rate analysis of polar code designs using genetic algorithm for additive white Gaussian noise channel

Sinha T.;Bhaumik J.

International Journal of Communication Systems, Volume 36, Year 2023

6. Physical Layer Security using Artificial Noise aided Beamforming

Tirthadip Sinha

Physical Layer Security using Artificial Noise aided Beamforming, Volume , Year 2021, Pages

7. **Performance Analysis of CRC-Aided Polar Codes with SCL Decoding Algorithm for the Binary Deletion Channel**

Tirthadip Sinha, Jaydeb Bhaumik

Lecture Notes in Electrical Engineering, Volume 602, Year 2020, Pages 13-23

8. **On Relative Performances and Decoding of CRC Concatenated Polar Codes with Different Lists for Solid-State Drives**

Tirthadip Sinha, Sudip Nayek, Jaydeb Bhaumik

Lecture Notes in Electrical Engineering, Volume 602, Year 2020, Pages 377-389

9. **Design of computationally efficient sharp FIR filter utilizing modified multistage FRM technique for wireless communications systems**

Tirthadip Sinha, Jaydeb Bhaumik

Journal of Electronic Science and Technology, Volume 17, Year 2019, Pages 185-192

10. **Designing of sharp transition low pass FIR filter using multistage FRM approach**

Tirthadip Sinha, Jaydeb Bhaumik

Proceedings of 2nd International Conference on 2017 Devices for Integrated Circuit, DevIC 2017, Volume , Year 2017, Pages 414-418

11. **Multistage Frequency Response Masking Approach for Sharp FIR Filter**

Tirthadip Sinha

Multistage Frequency Response Masking Approach for Sharp FIR Filter, Volume , Year 2016, Pages

12. **Modified Window Techniques for Signal Processing in RADAR Applications**

Tirthadip Sinha

Modified Window Techniques for Signal Processing in RADAR Applications, Volume , Year 2016, Pages

13. **Parametric Study and Analysis of Sol-Gel Derived [La/Va] Mg doped Composite PZT Nano Ceramic Material for Electronic Applications**

K. Roy, A. Roy, T. Sinha, S. Mukherjee, D. Chowdhury, S. Chatterjee

Int. Research J. of Eng. and Technol., Volume 03, Year 2016, Pages 771-773

14. **Electrical Characterization of PZT Dielectric Thick Film with varying Zr/Ti ratios Developed by SOL GEL Technique**

K. Roy, A. Roy, S. Mukherjee, T. Sinha, D. Chowdhury

Int. Research J. of Eng. and Technol., Volume 02, Year 2015, Pages 181-183

15. **Multi-Band OFDM System for realistic UWB-WPAN channel**

Tirthadip Sinha

Multi-Band OFDM System for realistic UWB-WPAN channel, Volume , Year 2013, Pages

