

Dr. TANMOY HAZRA
(Assistant Professor, Department of Artificial Intelligence, SVNIT Surat)

Objective: To work in an environment that provides for high standards of intellect, professionalism, human values and ethics and be part of a dynamic team that works towards the growth of the organization and enhance my skills with the cope of latest trend.



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Academic Records:

- **Ph.D.:** Defence Institute of Advanced Technology, Pune (DRDO)
- **M.Tech.:** IIT-ISM Dhanbad
- **B.Tech.:** West Bengal University of Technology

Research Interest:

Machine Learning, Applications of Game Theory

Publications:

International Journal

- S. Todmal, A. Mule, D. Bhagwat, T. Hazra, B. Singh, Human face generation from textual description via style mapping and manipulation, Multimedia Tools and Applications, 2022 (**SCIE**)
- U. Kalra, A. Kumar, T. Hazra, Intelligent mobile vending services: Location optimisation for food trucks using coalitional game theory, Multimedia Tools and Applications, 2022 (**SCIE**)
- T. Hazra, K. Anjaria, Applications of game theory in deep learning: A survey, Multimedia Tools and Applications, 2022 (**SCIE**)
- T. Hazra, K. Anjaria, Analysis and Applications of a Bridge Game, Journal of Ambient Intelligence and Humanized Computing, 2021 (**SCIE**)
- T. Hazra, M. Nene and C. R. S. Kumar, A Strategic Framework for Searching Mobile Targets Using Mobile Sensors, Wireless Personal Communications, 2017 (**SCIE**)
- T. Hazra, C. R. S. Kumar and M. Nene, Modeling and Analysis of Grid-Based Target Searching Problems in a Mobile Sensor Network, Wireless Personal Communications, 2017 (**SCIE**)
- T. Hazra, C. R. S. Kumar and M. Nene, Multi-agent target searching with time constraints using game-theoretic approaches, Kybernetes, 2017 (**SCIE**)
- P. Rawat, T. Hazra and B. Singh, Vehicle detection under tunnel using background subtraction technique, European Chemical Bulletin, 2023 (**Scopus**)
- T. Hazra, M. Nene and C. R. S. Kumar, Modelling and analysis of information-based target searching using mobile sensors, IJSCC, 2017 (**Scopus**)
- T. Hazra, C. R. S. Kumar and M. Nene, Two-agent cooperative search model using Petri-nets, IJIUS, 2018 (**Scopus**)
- T. Hazra, M. Nene and C. R. S. Kumar, A probabilistic approach to compute strategies for

- players of a search game in a bounded space, CSI Transactions on ICT, 2017
- T. Hazra, C. R. S. Kumar and M. Nene, Strategies for Searching Targets Using Mobile Sensors in Defence Scenarios, IJITCS, 2016
 - H. Om, T. Hazra, Design of Anomaly Detection System for Outlier Detection in Hardware Profile Using PCA, International Journal in Computer Science and Engineering, 2012
 - H. Om, T. Hazra, Statistical Techniques in Anomaly Intrusion Detection System, International Journal of Advances in Engineering and Technology, 2012

International Conference

- K.N. Sai, R. Lekhwani, B. Singh and T. Hazra, Modeling and Predicting the COVID-19 Trajectory in India, 7th I2CT (IEEE), Pune, 2017
- T. Hazra, M. Nene and C. R. S. Kumar, Optimal strategies for searching a mobile object using mobile sensors in a grid environment, 3rd ICACCS (IEEE), Coimbatore, 2016. (**Best Paper Award**)
- T. Hazra, C. R. S. Kumar and M. Nene, Strategies for Searching a Mobile Target Using Mobile Sensors in a Two-Dimensional Grid , 2nd I2CT (IEEE), Pune, 2017

Book

Author: Tanmoy Hazra

Title: Application of PCA in IDS

Sub-title: A Brief Idea and Approach

Publisher: Lambert Academic Publishing (International Publisher, Germany)

Publishing year: 2012

Sponsored Project:

Title: Power and Space Optimization in Internet of Things (IoT) System-on-Chip

Scheme: Chips to Startup

Funding Agency: MeitY

Role: Other Investigator

Sanctioned amount: Rs. 81.6 Lakhs

Status: Ongoing

Consultancy Project:

Participated as a member in a project titled "Water footprint of Dairy sector in India: An analysis of water requirement, production, profitability, and conservation" sponsored by Dr. Verghese Kurien Centre of Excellence with Rs. 4.70 lakhs in association with Institute of Rural Management Anand from September 2021 to March 2022.

Reviewer:

- IEEE Access since 2019
- Wireless Personal Communications (Springer) since 2017
- Security and Privacy (Wiley)
- Kybernetes (Emerald) since 2017
- IJSCC (Inderscience) since 2017
- IJISD (Inderscience) since 2017

Editorial Board Member:

- Editorial board member in Wireless Communication Technology, Whoice Publishing Pte. Ltd.,

Singapore since 2018

General Chair:

International conference on Artificial Intelligence for Resilient Happy Society 2022

Technical Program Committee:

- ICCI-2020, Organized by IIIT Pune
- ICCI-2021, Organized by IIIT Pune
- MISP-2021, Organized by NIT Arunachal Pradesh
- MIND-2021, Organized by NIT Raipur
- CVMI-2022, Organized by IIIT Allahabad
- CLIP-2022, Organized by NIT Trichy

Experience:

- Worked as an Assistant Professor at ISBM School of Technology Pune (23/06/2012 - 11/07/2014)
- Worked as an Assistant Professor (Temporary) at IIIT Pune (20/02/2018 - 04/07/2019)
- Worked as an Assistant Professor (Grade II, Level-10) at IIIT Pune (08/07/2019 - 02/01/2022)
- Worked as an Assistant Professor (Grade II, Level-11) at IIIT Pune (03/01/2022 – 05/10/2023)
- Working as an Assistant Professor (Grade I, Level-12) at SVNIT Surat (06/10/2023 – Till date)

Achievement:

- National merit certificate based on the performance of secondary examination
- GATE qualified in 2010 (96.6 percentile)
- Ph.D. institutional fellowship funded by the ministry of defence
- Best Paper Award in 3rd ICACCS, Coimbatore, 2016.

Technical Information:

Language: C, C++, Java, Python, MATLAB

Tools: Latex, GameTheoryExplorer, Irslib, wireshark

Operating System: Windows family, LINUX (basics)

Courses Taught:

- Object Oriented Programming (C++) [UG]
- Machine Learning [UG+PG]
- Introduction to Programming Language [UG]
- Design and Analysis of Algorithms [UG]

Academic and Administrative Responsibilities:

- Member of Departmental Purchase Committee at SVNIT Surat since October 2023
- Senate nominated Member of Board of Governors of IIIT Pune since January 2022 to October 2023.
- Member of Senate of IIIT Pune since November 2019 - April 2022
- Head of the Department, CSE, IIIT Pune from October 2019 - October 2022
- Deputy Centre In-charge in JoSAA admission process (2019)
- Institute Coordinator for DASA 2021, 2022 & 2023
- Member of Purchase Committee of IIIT Pune from 2019 to 2022

- Member of Moderation committee since December 2019 to October 2023
- Member of Anti-ragging committee since December 2019 to 2022
- Member of T&P cell (2019-2020)
- Member of BoS of Computer Science and Engineering department, DIAT Pune since February, 2023
- In-charge of examination cell, IIIT Pune (August 2018 to November 2018)
- Coordinator of FDP on Data Science and Machine Learning held on 20-24 December 2021
- Coordinator of ATAL Sponsored FDP on Data Science held on 20-24 December 2021
- Conducted NNSC Workshop in ISB&M School of Technology, Pune (2012)

Lecture Series/Invited Talk:

- Guest lecture on “Applications of discrete mathematics in computer science” in DYPIEMR, Pune (2016)
- Delivered lectures on Machine Learning for the students and faculty members of CSVTU, Bhilai from 13/9/2020 to 17/9/2020, CSVTU, Bhilai, 5 days (24 Hours) Short-term Training Programme
- Delivered an invited talk in the ATAL FDP on “Immersive Virtual Reality” organized by Defence Institute of Advanced Technology Pune from 5/10/2020 to 9/10/2020
- Delivered an invited talk on “Mathematical Modelling and Machine Learning” organized by MIT ADT University Pune on 17/10/2020
- Delivered lectures on Game Theory and Applications for the faculty members of CSVTU, Bhilai from 2/12/2020 to 3/12/2020, CSVTU, Bhilai, 2 days (8 Hours) Faculty Development Programme
- Delivered an invited talk in the Workshop on “Machine Learning- Concepts and Applications” organized by NIT Trichy from 19/4/2021 to 23/4/2021
- Delivered an invited talk in the ATAL FDP on “Data Science: Applications and Research Directions” organized by Atal Bihari Vajpayee University, Bilaspur 5/7/2021 to 9/7/2021
- Delivered an invited talk in 10 days Training Programme for Navy Officers organized by Defence Institute of Advanced Technology Pune on 29/9/2021
- Delivered an invited talk in 10 days Customized Course in Cyber Security for Navy Officers organized by Defence Institute of Advanced Technology Pune on 6/5/2022
- Delivered an invited talk in the AICTE and ISTE sponsored online induction/ refresher programme “Data Science and It’s Applications” organized by Abha Gaikwad-Patil College of Engineering, Nagpur 30/12/2021 to 5/1/2022
- Delivered Keynote on 3rd International Conference on Information Technology (InCITe 2023), organized by Amity University Noida, 2nd - 3rd March, 2023.

Examiner/Paper Setter:

- Ph.D. Thesis Evaluation of VTU, August 2021
- External examiner of MTech Project Evaluation at IIIT Allahabad, 2021 & 2022
- External expert for JRF recruitment at IIIT Pune, June 2022
- External examiner of BTech Subject Oral Examination at COE, Pune 2021
- Question setter of BTech Theory Examination at COE, Pune 2020
- Question setter of BTech Theory Examination at MITADT University, Pune 2019, 2020, 2021

Personal Details:

Father’s Name : Mr. Dilip Kumar Hajra
Date of Birth : 1.1.1988

Sex : Male
Nationality : Indian
Religion : Hindu
Permanent Address : Vill + P. O. + P. S.- Patrasayer
Dist- Bankura
West Bengal
Pin-722206
Language Known : Bengali, English, Hindi
Strength : Punctuality, Responsibility, Positive Attitude, Patience
Interest : Teaching, Net Surfing, Listening Music, Playing Cricket