SUBHADIP MUKHERJEE

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RESEARCH AREA

Information Security and Privacy, Steganography, DNA Computing.

EDUCATIONAL QUALIFICATION

DEGREE	UNIVERSITY
PhD (Pursuing)	Department of Computer Science and Engineering, Assam University
M. Phil.	Dept. of Computer Science, Vidyasagar University
MCA	Dept. of Computer Science, Vidyasagar University
BCA	The University of Burdwan

WORKING EXPERIENCE

PERIOD	NAME OF THE COLLEGE/UNIVERSITY
August 2018 To Present	Dept. of Computer Science, **Kharagpur College**, Kharagpur.
Odd Semester 2018	Dept. of Computer Science, **Vidyasagar University**, Midnapore.

- ❖ Worked as Internal and External Examiner of various examinations of Vidyasagar University
- ❖ Worked as Question Setter of various examinations of Vidyasagar University
- ❖ Worked as Scrutinizer of various examinations of Vidyasagar University

AWARDS

1. **Outstanding Paper Award** in *5th Regional Science and Technology Congress 2023*, Organized by the Department of Science & Technology and Biotechnology, Govt. of West Bengal.

2. **Best Paper Presenter Award** in the *National Student Convention 2022* which was jointly organized by the Computer Society of India (CSI) and Assam University, Silchar.

PUBLICATIONS

- Bandyopadhyay, S., Sarkar, S., **Mukherjee, S.** and Mukhopadhyay, S., 2023. Pixel Interpolation Followed by Prediction Error Expansion-Based Reversible Information Hiding Algorithm for Securing Healthcare Data. In *Frontiers of ICT in Healthcare: Proceedings of EAIT 2022* (pp. 375-385). Singapore: Springer Nature Singapore.
- **Mukherjee, S.**, Sarkar, S. and Mukhopadhyay, S., 2022, April. Octagon Shell Based Image Steganography for Avoiding Human Visual System with Lower Computational Time. In *2022 Second International*

Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT) (pp. 1-5). IEEE.

- **Mukherjee, S.**, Mukhopadhyay, S. and Sarkar, S., 2022. A shell-matrix-based image steganography technique for multimedia security and covert communication. *Innovations in Systems and Software Engineering*, pp.1-16.
- **Mukherjee, S.**, Sarkar, S. and Mukhopadhyay, S., 2022, January. VCI Construction and Shifting Strategy Based Steganography for 3D Images. In *International Conference on Computational Intelligence in Communications and Business Analytics* (pp. 210-219). Cham: Springer International Publishing.
- **Mukherjee, S.**, Sarkar, S. and Mukhopadhyay, S., 2022, May. An Image Steganography Technique Based on Fake DNA Sequence Construction. In *Proceedings of International Joint Conference on Advances in Computational Intelligence: IJCACI 2021* (pp. 613-621). Singapore: Springer Nature Singapore.
- Bandyopadhyay, S., **Mukherjee, S.**, Jana, B. and Chowdhuri, P., 2022, June. A Data Hiding Technique Based on QR Code Decomposition in Transform Domain. In *Proceedings of International Conference on Frontiers in Computing and Systems: COMSYS 2021* (pp. 425-432). Singapore: Springer Nature Singapore.
- **Mukherjee, S.**, Sarkar, S. and Mukhopadhyay, S., 2021. Pencil shell matrix based image steganography with elevated embedding capacity. *Journal of Information Security and Applications*, *62*, p.102955.
- **Mukherjee, S.**, Sarkar, S. and Mukhopadhyay, S., 2021. A LSB substitution-based steganography technique using DNA computing for colour images. In *Proceedings of International Conference on Innovations in Software Architecture and Computational Systems: ISACS 2021* (pp. 109-117). Springer Singapore.
- **Mukherjee, S.**, Chowdhuri, P., Singh, P.K. and Jana, B., 2020. Data Hiding Based on Decagon-Shaped Shell. In *Computational Intelligence in Pattern Recognition: Proceedings of CIPR 2020* (pp. 339-348). Springer Singapore.
- **Mukherjee, S.** and Jana, B., 2019. A novel method for high capacity reversible data hiding scheme using difference expansion. *International Journal of Natural Computing Research (IJNCR)*, *8*(4), pp.13-27.

CONFERENCES, FDP, STC, STTP, SEMINARS AND WORKSHOPS

ACTIVITY	TITLE	ORGANISED BY	ROLE	YEAR
Science Congress	*West Bengal State Science & Technology Congress, 2023*	**Govt. of West Bengal.**	Presenter	2023
FDP	*Machine Learning and Internet of Things*	**Global Institute of Science and Technology, Haldia**	Participant	2022
Seminar	*National Student Convention (NSC) 2022*	Dept. of CSE, **Assam University** and **CSI** Kolkata Chapter	Presenter	2022
Seminar	*International Seminar on Intelligent Computing (ISIC) 2021*	**Assam University, Silchar** and IEEE Computational Intelligence Society, Kolkata	Participant	2021
Workshop	*Statistical Techniques for Data Analysis (STDA 2021)*	**Dr, BR Ambedkar NIT Jalandhar**	Participant	2021
Seminar	*Research methodology - contemporary Challenges (RMCC 2021)*	**Assam University, Silchar** and IEEE Kolkata Section	Participant	2021
STTP	*Hands on Training on Art of Writing Technical Paper*	**AICTE** and **MAKAUT**, Kolkata	Participant	2021
Webinar	*Body's Fight Against Harmful Invaders*	INSA and Kharagpur College	Participant	2021
FDP	*Role of Mathematics in Latest Engineering Trends*	Department of Mathematics, **LIET, Hyderabad**	Participant	2021
STC	*Advanced Mathematical Techniques for Engineers & Scientists (AMTES20)*	TEQIP-III SPONSOERED E-STC **NIT Rourkela**	Participant	2020
Workshop	*IEEE Virtual Authorship Workshop: How to Publish a Quality Technical Paper with IEEE*	IEEE Explore and IEEE India	Participant	2020
Conference	*International Conference on Security & Privacy (**ICSP 2020**)*	Department of Mathematics, **NIT Jamshedpur**	Participant	2020
Seminar	*Third International Seminar on Intelligent Computing (**ISIC 2020**) in Collaboration with IEEE CIS Kolkata*	Dept. of Computer Science and Engineering, **Assam University**	Participant	2020
Webinar	*Machine Learning and Steganography*	Dept. of Computer Science and BCA, **Kharagpur College**	Participant	2020

Webinar	Recent Trends in Mathematics and its Applications	Dept. of Mathematics, **Kharagpur College**	Participant	2020
Webinar	LaTeX for Technical Document Preparation	**Computer Society of India**, Kolkata Chapter	Participant	2020
Webinar	Digital Transformation	Dept. of Computer Engineering, **Mizoram University**, Mizoram	Participant	2020
Webinar	Quantum, Data and Algorithms	Dept. of Computer Science & Engineering, **Assam University**, Silchar	Participant	2020
Webinar	Development of computational model using deep learning	**The ICFAI University**, Dehradun	Participant	2020
Workshop	Ethical Hacking (**Megalith 2020**)	**IIT Kharagpur** and **IIT Hyderabad**	Participant	2020
Conference	International Conference on Computational Intelligence in Pattern Recognition (**CIPR 2020**)	Dept. of Computer Science and Application, Institute of Engineering and Management (**IEM**), **Kolkata**	Author	2020
Seminar	Recent Advances in Computer Science and Information Technology	Dept. of BCA, **Silda C. S. College**	Presenter	2019
Workshop	National Workshop on current state of affairs in Cyber Security & Cryptology (**NWCSC**)	Dept. of Computer Science and Engineering, National Institute of Technology (**NIT**), **Durgapur**	Participant	2019
Seminar	Advanced Computation, Algorithm and Security (**ACAS-2K18**)	Dept. of Computer Science, **Vidyasagar University**	Participant	2018
Conference	International Conference on Information Technology and Applied Mathematics (**ICITAM-2017**)	Haldia Institute of Technology (**HIT**), **Haldia**	Author	2017
Seminar	Advanced Computation, Algorithm and Security (**ACAS-2K17**)	Dept. of Computer Science, **Vidyasagar University**	Participant	2017
Seminar	Advanced Computation, Algorithm and Security (**ACAS- 2K16**)	Dept. of Computer Science, **Vidyasagar University**	Participant	2016

NPTL COURSE

❖ NPTEL course "***Data Science for Engineers***" organized by **Indian Institute of Technology (IIT) Madras** (**2019**).

OTHER ACTIVITIES

✓ Participated in the program on *Disruptive Technologies* by **Information Security Education and Awareness (ISEA)**, Government of India. (**2020**).

✓ E-Waste Pledge by **Ministry of Electronics and Information Technology**, Government of India. (**2020**)

✓ Participated in the special camp of adopted village *'Phulpahari'*, organized by **NSS Unit-8**, Vidyasagar University (**2016**).

✓ Won **Silver Medal** in the event of *Quiz competition* organized by Student's union, ***Vidyasagar University*** (May **2016**).

✓ A certificate entitled '*80 hours training in English Communication and Basic Corporate Etiquette'* by **TCS**, in association with ***B. C. College, Asansol*** (**2012**).