

Employee ID : GIST/ICARE/0003



DR. DIPANKAR DEY

INFO

DEPARTMENT : BCA

DATE OF JOINING : 1ST JUNE 2006

NUMBER OF BOOK PUBLISH : 2

NUMBER OF JOURNAL PUBLISH : 23

NUMBER OF CONFERENCE : 2

EXPERIENCE

TEACHING : 0

INDUSTRY : 0

IN GIST 19 YEAR 11 MONTH 7 DAY

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EDUCATION

MCA, PH.D

List of Journals

- 1. Lightweight Hybrid Chaotic Image Encryption With Spiral Shuffling and S-Box Diffusion.** Dey D., Bhunia P., Jana D.K., Diyasi S., & Maity S. *Security and Privacy*, 2025, 8(6), e70123.
<https://doi.org/10.1002/spy2.70123>
- 2. A hybrid deep learning-based framework for enhanced real-time fraud detection in Bitcoin transactions.** Diyasi S., Ghosh A., & Dey D. *International Journal of Blockchains and Cryptocurrencies*, 2025.
<https://doi.org/10.1504/ijbc.2025.147778>
- 3. A novel approach to steganography security using Langton's ant cellular automaton and hybrid chaotic map.** Dey D., Jana D.K., & Bhunia P. *SN Computer Science*, 2025, 6, 402.
<https://doi.org/10.1007/s42979-025-03881-X>
- 4. Enhancing blockchain transaction security: A hybrid machine learning approach for fraud detection.** Diyasi S., Ghosh A., & Dey D. *International Journal on Smart & Sustainable Intelligent Computing*, 2025, 2(1), 14–30.
<https://submissions.adroidjournals.com/index.php/ijssic/article/view/43>
- 5. Machine learning for predicting urine pH amount.** Bhunia P., Das Adhikary S., Maity S., Dey D., & Pal S. *International*

Journal of HIT Transaction on ECCN,
2023,
9(1A).

<https://doi.org/10.5281/zenodo.14813133>

- 6. Cyber-resilient phishing detection: BERT-driven NLP for advanced email security.** Diyasi S., Ghosh A., & Dey D. *IJ HIT Transaction on ECCN*, 2023, 9(1A).

<https://doi.org/10.5281/zenodo.14813058>

- 7. Cybersecurity literacy programs for marginalized communities.** Ghosh A., Diyasi S., & Dey D. *IJ HIT Transaction on ECCN*, 2023, 9(1A).

<https://doi.org/10.5281/zenodo.14813104>

- 8. Enhancing network security: Analysis of firewalls and threats.** Maity S., Bhunia P., & Dey D. *IJ HIT Transaction on ECCN*, 2023, 9(1A).

<https://doi.org/10.5281/zenodo.14812989>

- 9. Smart movie review analysis: Sentiment classification.** Dey D., Diyasi S., Maity S., Bhunia P., & Ghosh A. *IJ HIT Transaction on ECCN*, 2023, 9(1A).

<https://doi.org/10.5281/zenodo.14813109>

- 10. Automatic question generation: A comprehensive review.** Maity S., Pattanayak S., Dey D., & Mitra A. *IJIPAR*, 2023, 13(2).

https://www.researchgate.net/publication/370594850_INNOVATIONS_IN_AUTOMATIC_QUESTION_GENERATION_AND_ANSWER_PREDICTION_A_COMPREHENSIVE_REVIEW_OF_THE_LATEST_RESEARCH_AND_TECHNIQUES

- 11. Women safety device using Arduino.** Paul R., Das S., Manna S., Mukherjee A., & Dey D. *IJIPAR*, 2023, 13(2). (No link provided)

- 12. Image steganography using Arnold transformation.** Pattanayak S., Samanta

S., Dey D., Sarkar A., & Bhattacharyya S. *IGI Global Ebooks (Book Chapter)*, 2023.

<https://doi.org/10.4018/978-1-6684-7524-9.ch012>

13. **Challenges of network security and emerging trends.** Dey D., & Pattanayak S. *Gradiva Review Journal*, 2021, 7(12).
<https://drive.google.com/file/d/1Le1CILiRpiJ2bGijBwbejwl4sRu3ytPD/view>
14. **CBC mode-based image encryption using Arnold transformation.** Dey D., Suresha P., & Mitra A. *IJRAR*, 2021, 8(4).
<http://dx.doi.org/10.2139/ssrn.4034314>
15. **Graphical password authentication.** Shah A., Anand D., Samanta S., & Dey D. *IJ HIT Transaction on ECCN*, 2021, 7(2A).
<https://doi.org/10.5281/zenodo.5893206>
16. **Computer virus attacks.** Maity S., & Dey D. *Pensee International Journal*, 2021, 51(3).
<https://doi.org/10.6084/m9.figshare.19258763.v1>
17. **Study and comparison of image encryption techniques.** Dey D., Acharjya P.P., & Mitra A. *IJRAR*, 2021, 8(1).
https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4082752
18. **Feistel cipher and scrambling for cloud-based image encryption.** Dey D., Mitra A., & Paul S. *IJRAR*, 2020, 7(1).
<http://www.ijrar.org/IJRAR2001561.pdf>
19. **Color image encryption using ANN and buffer shuffling.** Dey D., & Paul S. *IJCSE*, 2019, 7(3), 202–211.
<https://doi.org/10.26438/ijcse/v7i3.202211>
20. **LFSR-based multi-ant CA and chaotic map encryption.** Dey D., Giri D., Jana B.,

Maitra T., & Mohapatra R.N. *Security and Privacy*, 2018, 1(6),

e52. <https://doi.org/10.1002/spy2.52>

21. Image encryption using linear cryptanalysis and fuzzy

operations. Dey D. *IJSRCSE*, 2018, 6(4).

<https://ijsrcse.isroset.org/index.php/j/article/view/271>

22. Survey on chaotic map image

encryption. Dey D. *IJIPAR*, 2018, 8(8).

https://www.researchgate.net/publication/357779733_Literature_Survey_on_Different_Chaotic_based_of_Image_Encryption_scheme

23. Text encryption using extended

Euclidean algorithm + LCG. Pattanayak S., & Dey D. *IJDR*, 2016, 6(7).

https://www.researchgate.net/publication/306344836_TEXT_ENCRYPTION_AND_DECRYPTION_WITH_EXTENDED_EUCLEIDEAN_ALGORITHM_AND_COMBINING_THE_FEATURES_OF_LINEAR_CONGRUENCE_GENERATOR

List of Conference

1. Adaptive Mitigation of Zero-Day Vulnerabilities: The Case of Log4Shell Using TF-IDF and Random Forest

Classifiers. Diyasi S., Ghosh A., Dey D., Maity S., & Bhunia P. *Conference*, 2025.

<https://doi.org/10.6084/m9.figshare.30621902.v2>

2. Chaotic based image steganography using polygonal method.

Dey D., Pattanayak S., & Samanta S. *Springer Proceedings in Complexity (Conference)*, 2022.

https://doi.org/10.1007/978-3-030-99792-2_47

List of Books

1. Comparative Analysis of Steganographic Techniques for Data

Hiding in Digital Images. Pattanayak S., Bose P., & Dey D. *Book Chapter*, 2025.

<https://doi.org/10.6084/m9.figshare.30621860.v1>

2. Chaotic image encryption schemes:

Review. Dey D., & Pattanayak S. *IJAIM*, 2021, 10(12).