



# VIDYASAGAR UNIVERSITY

## FACULTY INFORMATION SYSTEM

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**Name** Dr. Biswapati Jana  
**Designation** Professor , **Head**  
**Department Name** COMPUTER SCIENCE  
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### EDUCATIONAL QUALIFICATION

Degree Name	Institute	Year of passing/awarded
Ph.D. in Computer Science	Vidyasagar University	2017
M.Tech. in Computer Science & Engineering	Calcutta University	2002
B.Tech. in Computer Science & Engineering	Calcutta University	1999
B.Sc. in Physics [Hons]	Calcutta University	1996

Title of the Ph. D. Thesis      Design and Implementation of Dual Image-based Reversible Data Hiding Techniques

### CAREER PROFILE / TEACHING EXPERIENCE

Professor, Department of Computer Science, Vidyasagar University, P.O:-Vidyasagar University, Dist:- Paschim Medinipur, Pin:-721102. from March, 2021

Associate Professor, Department of Computer Science, Vidyasagar University, P.O:-Vidyasagar University, Dist:- Paschim Medinipur, Pin:-721102. from March 2018

Assistant Professor, Department of Computer Science, Vidyasagar University, P.O:-Vidyasagar University, Dist:- Paschim Medinipur, Pin:-721102. from 2004 to 2018

Lecturer, Department of Computer Science & Engineering , Haldia Institute of Technology (HIT), P.O. – HIT Campus, Dist:- Purba Medinipur. Pin:-721657. from 2001 to 2004.

### SPECIALIZATION/RESEARCH AREA

#### Field of Specialization

Data Hiding  
Steganography  
Watermarking  
Image Processing

#### Research Area/ Areas of Interest

Computer Vision  
Machine Learning  
Social Networking

### COURSE/ SUBJECT TAUGHT

Compiler Design  
Image Processing  
Cryptography and Steganography  
Multimedia Security  
Research Methodology

### CONFERENCE/ SYMPOSIUM /JOURNAL PAPER / BOOKS PUBLISHED

#### International Publication

Title	Published in	Published on	Published by	Role	Details
Context Pixel-based Reversible Data Hiding Scheme using Pixel Value Ordering	The Visual Computer	Jul, 2023	Springer	Co-Author	Impact Factor: 3.5000 Indexing: SCOPUS, SCIE Article's Web Link: or
Reference Pixel-Based Reversible Data Hiding Scheme Using Multi-Level Pixel Value Ordering	Multimedia Tools and Applications, Springer	Jul, 2023	Springer	Co-Author	Impact Factor: 3.6000 Indexing: SCOPUS, SCIE Article's Web Link: or

Robust Data Hiding Scheme for Highly Compressed Image Exploiting BTC with Hamming Code	Multimedia Tools and Applications 10.1007/s11042-023-15727-w	Apr, 2023	Springer	Co-Author Impact Factor: 3.60000 Indexing: SCOPUS, SCIE Article's Web Link: or
Aspect based sentiment analysis using multi-criteria decision-making and deep learning under COVID-19 pandemic in India	CAAI Transactions on Intelligence Technology	Oct, 2022	The Institute of Engineering and Technology	Co-Author Impact Factor: 7.98500 Indexing: SCOPUS Article's Web Link: <a href="https://doi.org/10.1049/cit2.12144">https://doi.org/10.1049/cit2.12144</a>
Fuzzy Proximity based Robust Data Hiding Scheme with Interval Threshold	Soft Computing	Oct, 2022	Springer	Corresponding Author Impact Factor: 3.73200 Indexing: SCIE Article's Web Link: <a href="https://doi.org/10.1007/s00500-022-07552-4">https://doi.org/10.1007/s00500-022-07552-4</a>
Reversible Data Hiding Scheme Exploiting Center Folding with Fuzzy Weight Strategy	Journal of Information Security and Applications (JISA) , Volume 69, September 2022, 103276	Jul, 2022	Elsevier	Corresponding Author Impact Factor: 4.96000 Indexing: SCIE Article's Web Link: <a href="https://doi.org/10.1016/j.jisa.2022.103276">https://doi.org/10.1016/j.jisa.2022.103276</a>
A Dual Image Based Data Hiding Scheme Based on Difference of Pixel Values in Integer Wavelet Transform Domain	CICBA	Jul, 2022	Springer	Impact Factor: 0.00000 Indexing: Article's Web Link:
Robust data hiding scheme through distinct keypoint selection exploiting modified Bilateral-Laplacian SIFT with encoding pipeline	Displays 74(1):102268	Jul, 2022	Elsevier	Corresponding Author Impact Factor: 3.07400 Indexing: SCOPUS, SCIE Article's Web Link: <a href="https://doi.org/10.1016/j.displa.2022.102268">10.1016/j.displa.2022.102268</a>
Application of type-2 defuzzification method to solve profit maximization solid transportation problem considering carbon emission	International Journal of Information and Management Sciences (IJIMS)	Jun, 2022	International Journal of Information and Management Sciences (IJIMS)	Corresponding Author Impact Factor: 0.00000 Indexing: SCOPUS Article's Web Link:

Fuzzy Logic with Superpixel-Based Block Similarity Measures for Secured Data Hiding Scheme	<a href="https://doi.org/10.1007/978-981-19-0105-8_44">https://doi.org/10.1007/978-981-19-0105-8_44</a>	Jun, 2022	Lecture Notes in Networks and Systems, vol 404. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-19-0105-8_44">https://doi.org/10.1007/978-981-19-0105-8_44</a>	Corresponding Author	Impact Factor: 0.00000 Indexing: SCOPUS Article's Web Link: <a href="https://doi.org/10.1080/19393555.2021.1956023">https://doi.org/10.1080/19393555.2021.1956023</a>
Two-layers robust data hiding scheme for highly compressed image exploiting AMBTC with difference expansion	Journal of King Saud University - Computer and Information Sciences Volume 34, Issue 8, Part A, September 2022, Pages 5240-5260	May, 2022	Elsevier	Corresponding Author	Impact Factor: 9.00600 Indexing: SCOPUS, SCI Article's Web Link: <a href="https://doi.org/10.1016/j.jksuci.2022.05.013">https://doi.org/10.1016/j.jksuci.2022.05.013</a>
Active Queue Management in RED Considering Critical Point on Target Queue	Journal of Interconnection Networks, Vol. 21, No. 03, 2150017 (2021)	2021	World Scientific Publishing Co Pte Ltd	Co-Author	Impact Factor: 0.00000 Indexing: SCOPUS Article's Web Link: <a href="https://doi.org/10.1142/S0219265921500171">https://doi.org/10.1142/S0219265921500171</a>
A new DCT based robust image watermarking scheme using cellular automata	Information Security Journal: A Global Perspective Volume 31, 2022 - Issue 5	2021	Taylor and Francis	Corresponding Author	Impact Factor: 0.00000 Indexing: SCOPUS Article's Web Link: <a href="https://doi.org/10.1080/19393555.2021.1956023">https://doi.org/10.1080/19393555.2021.1956023</a>
FCSTP with possibility and expected value approaches in hybrid uncertain environments	TWMS Journal Of Applied And Engineering Mathematics, 11(4), 998-1011.	2021	TWMS Journal Of Applied And Engineering Mathematics	Co-Author	Impact Factor: 0.00000 Indexing: SCOPUS Article's Web Link: <a href="https://hdl.handle.net/11729/3249">https://hdl.handle.net/11729/3249</a> <a href="http://jaem.isikun.edu.tr/web/index.php/archive/113-vol11-no4/759">http://jaem.isikun.edu.tr/web/index.php/archive/113-vol11-no4/759</a>
An Image Authentication and Tampered Detection Scheme Exploiting Local Binary Pattern Along with Hamming	Wireless Personal Communications   Issue 1/2021	2021	Springer	Corresponding Author	Impact Factor: 0.00000 Indexing: SCOPUS Article's Web Link: <a href="https://www.s">https://www.s</a>

ng Error Correcting Code				<a href="https://www.springerprofessional.de/en/an-image-authentication-and-tampered-detection-scheme-exploiting/19291660">pringerprofessional.de/en/an-image-authentication-and-tampered-detection-scheme-exploiting/19291660</a>
Application of fuzzy Logic based GA and PSO to solve 4D multi-item transportation problem for substitute and complementary items	Evolutionary Intelligence volume 15, pages 2187–2206 (2022)	2021	Springer Nature	Co-Author Impact Factor: 2.60000 Indexing: SCOPUS, SCIE Article's Web Link: <a href="https://doi.org/10.1007/s12065-021-00630-w">https://doi.org/10.1007/s12065-021-00630-w</a>
Application of Fuzzy Logic based GA and PSO to solve 4D Multi-item transportation problem for substitute and complementary items	Evolutionary Intelligence , 15, pages 2187–2206 (2022)	2021	Springer	Corresponding Author Impact Factor: 2.57700 Indexing: SCOPUS, SCI Article's Web Link: <a href="https://doi.org/10.1007/s12065-021-00630-w">https://doi.org/10.1007/s12065-021-00630-w</a>
Improving the Reversible LSB Matching Scheme Based on the Likelihood Re-encoding Strategy	Entropy, 23(5), 577. (2021)	2021	Entropy	Co-Author Impact Factor: 2.52400 Indexing: SCOPUS Article's Web Link: <a href="https://doi.org/10.3390/e23050577">https://doi.org/10.3390/e23050577</a>
A secure reversible color image watermarking scheme based on LBP, lagrange interpolation polynomial and weighted matrix	Multimedia Tools and Applications (2021)	2021	Springer	Corresponding Author Impact Factor: 2.57700 Indexing: SCOPUS, SCI Article's Web Link: <a href="https://doi.org/10.1007/s11042-021-10651-3">https://doi.org/10.1007/s11042-021-10651-3</a>
Application of Dynamic Weight with Distance to Reduce Packet Loss in RED based Algorithm	EAIT-2020 (2021)	2021	Springer	Impact Factor: Indexing: Article's Web Link:

Comparative analysis of bio- inspired dragonfly and honeybee algorithm-based routing protocols with the ant colony algorithm for MANET	EAIT-2020	2021	Springer	Impact Factor: Indexing: Article's Web Link:
A Nobel Congestion Control Algorithm Using Buffer Occupancy RED	CIPR-2021	2021	Springer	Impact Factor: Indexing: Article's Web Link:
A Novel Data Hiding Technique Based on QR Code Decomposition in Transform Domain	CIPR-2021	2021	Springer	Impact Factor: Indexing: Article's Web Link:
A Predictable Active Queue Management to Reduce Sensitivity of RED Parameter	International Journal of Engineering & Technology	2020	Science Publishing Corporation, Dubai, UAE	Impact Factor: 0.00000 Indexing: Article's Web Link:
Superpixel based Robust Reversible Data Hiding Scheme Exploiting Arnold Transform with DCT and CA	Journal of King Saud University - Computer and Information Sciences	2020	Elsevier	Impact Factor: Indexing: Article's Web Link:
Improved center-folding based directional pixel value ordering for reversible data hiding scheme	Multimedia Tools and Applications	2020	Springer	Impact Factor: Indexing: Article's Web Link:
Improved center folding based directional pixel value ordering for reversible data hiding scheme	Multimedia Tools and Applications	2020	Springer	Impact Factor: Indexing: Article's Web Link:
Application of random triangular and Gaussian type-2 fuzzy variable to solve fixed charge multi-item four-dimensional transportation problem	Applied Soft Computing	2020	Elsevier	Impact Factor: Indexing: Article's Web Link:
A Survey to Analyse Routing Algorithms for Opportunistic Network	Procedia Computer Science	2020	Elsevier	Impact Factor: Indexing: Article's Web Link:
A New Efficient Swarm-based Routing Protocol for MANET Exploration	VCIPECH-2020	2020	KIET Group of Institutions Ghaziabad	Impact Factor: Indexing: Article's Web Link:

iting DRAGONFLY with HONEY BEE

Hiding data in dual color images reversibly via weighted matrix	Journal of Information Security and Applications,50,2020	2020	Elsevier	Impact Factor: Indexing: Article's Web Link:
Robust Watermarking scheme for compressed image through DCT exploiting Superpixel and Arnold transform	Conference Proceedings	2020	Springer	Impact Factor: Indexing: Article's Web Link:
Multi-Sensor Tracking Simulator Design and its Challenges	Conference Proceedings	2020	Springer	Impact Factor: Indexing: Article's Web Link:
Weighted matrix based random data hiding scheme within a pair of interpolated image	Conference Proceedings	2020	Springer	Impact Factor: Indexing: Article's Web Link:
Multiple Radar Data Fusion to Improve the Accuracy in Position Measurement Based on K-means Algorithm	Conference Proceedings	2020	Springer	Impact Factor: Indexing: Article's Web Link:
High Payload RDH Through Directional PVO Exploiting Center-Folding Strategy.	Conference Proceedings	2020	Springer	Impact Factor: Indexing: Article's Web Link:
A Robust Audio Authentication Scheme Using (11,7) Hamming Error Correcting Code.	Conference Proceedings	2020	Springer	Impact Factor: Indexing: Article's Web Link:
Authentication on Interpolated Sub-Sampled based Image Steganography Exploiting Secret Sharing.	Conference Proceedings	2020	Springer	Impact Factor: Indexing: Article's Web Link:
Center-Symmetric Local Binary Pattern-Based Image Authentication Using Local and Global Features Vector.	Advances in Intelligent Systems and Computing	2020	Springer	Impact Factor: Indexing: Article's Web Link:
Data Hiding Based on Decagon-Shaped Shell	Advances in Intelligent Systems and Computing	2020	Springer	Impact Factor: Indexing: Article's Web Link:
A New Repeated Pixel Value Difference-Based Steganographic Scheme	Intelligent Computing: Image Processing Based Applications,	2020	Springer	Impact Factor: Indexing: Article's Web Link:

eme with Overlapped Pixel					
Application of fuzzy programming techniques to solve solid transportation problem with additional constraints	Operations Research And Decisions	2020	Operations Research And Decisions	Impact Factor: Indexing: Article's Web Link:	
Fake Image and News Detection on Social Media Through Trustware Based Community Portal	Conference Proceedings	2019	YSC-2019	Impact Factor: Indexing: Article's Web Link:	
FC 4D MITPs in Crisp and Rough Environments for Substitutable and Complementary Items with Budget Constraints	MDPI-mathematics. Mathematics 7, no. 3 (2019): 281, IF-1.105 (SCI Journal)	2019	MDPI	Impact Factor: Indexing: Article's Web Link:	
A Novel Method for High Capacity Reversible Data Hiding Scheme Using Difference Expansion	International Journal of Natural Computing Research (IJNCR), IGI Global.	2019	IGI Global.	Impact Factor: Indexing: Article's Web Link:	
Robust Watermarking Scheme for Tamper Detection and Authentication Exploiting Cellular Automata	IET Image Processing, IEEE, DOI: 10.1049/iet-ipr.2018.6638	2019	IEEE	Impact Factor: Indexing: Article's Web Link:	
Directional Pixel Value Ordering Based Secret Sharing Using Sub-Sampled Image Exploiting Lagrange Polynomial	DOI :10.1007/s42452-019-0659-1, SN Applied Sciences, Springer	2019	Springer	Impact Factor: Indexing: Article's Web Link:	
A Method of Building Ontology Based Information Knowledgebase	International Journal of Computer Sciences and Engineering (IJCEE), 7(1), Jan 2019	2019	IJCSE, (UGC Approved)	Impact Factor: Indexing: Article's Web Link:	
Pixel Value Ordering with Prediction Error Expansion Based High Fidelity Reversible Data Hiding Scheme	International Journal of Applied Engineering Research (IJAER), 14 (4), (2019) pp. 998-1006	2019	IJAER, (UGC Approved)	Impact Factor: Indexing: Article's Web Link:	
Watermarking Scheme using LBP for Image Authentication and Tamper Detection through dual image	Security and Privacy, Wiley Online Library	2019	Wiley Online Library	Impact Factor: Indexing: Article's Web Link:	

A robust reversible data hiding scheme for Color Image using Reed-Solomon Code	Multimedia Tools and Application (MTA), Springer, 2019	2019	Springer, (IF-1.541)	Impact Factor: Indexing: Article's Web Link:
LFSR-based Multi-ant Cellular Automation and Chaotic Map based Image Encryption	Security and Privacy, Wiley Online Library, 1(6), e52	2019	Wiley Online Library.	Impact Factor: Indexing: Article's Web Link:
Copy Move Forgery Detection through Graph Neighborhood Degree	International Journal of Applied Engineering Research (IJAER), 13(18), pp. 13421-13427	2018	IJAER, (UGC Approved)	Impact Factor: Indexing: Article's Web Link:
Improved data hiding capacity through repeated embedding using modified weighted matrix for color image	International Journal of Computers and Applications (IJCA)	2018	Taylor and Francis	Impact Factor: Indexing: Article's Web Link:
Weighted matrix based reversible watermarking scheme using color image	Multimedia Tools and Application (MTA), Springer	2018	Springer (IF-1.530)	Impact Factor: Indexing: Article's Web Link:
Directional PVO for Reversible Data Hiding Scheme with Image Interpolation	Multimedia Tools and Application (MTA), Springer	2018	Springer (IF-1.530)	Impact Factor: Indexing: Article's Web Link:
Secured Steganographic Scheme For Highly Compressed Color Image Using Weighted Matrix Through DCT	International Journal of Computers and Applications (IJCA)	2018	Taylor & Francis	Impact Factor: Indexing: Article's Web Link:
Analysis of Factors and their Impacts in Measurement Accuracy and Prioritization of Radars	International Journal of Research and Analytical Reviews (IJRAR), 5(4), December 2018	2018	IJRAR, (UGC Approved)	Impact Factor: Indexing: Article's Web Link:
Analysis of Factors and their Impacts in Measurement Accuracy and Prioritization of Radars	International Journal of Research and Analytical Reviews (IJRAR), Vol-5, Issue-4, December 2018, pp- 548-554. (UGC Approved).	2018	IJRAR	Impact Factor: Indexing: Article's Web Link:
Reversible Data Hiding Scheme Using Sub-Sampled Image Exploiting Lagrange's Interpolating Polynomial	Multimedia Tools and Application (MTA), Springer.	2017	Springer (IF-1.530)	Impact Factor: Indexing: Article's Web Link:
Reversible Watermarking Scheme Using PV D-DE	Proceedings of the International Conference at Calcutta Business	2017	Springer	Impact Factor: Indexing: Article's Web Link:

Extended Directional IPVO for Reversible Data Hiding Scheme	School, Kolkata on March 24-25, 2017 Proceedings of the 1st International Conference on Communication, Devices and Computing (ICCDC 2017) was held in Haldia, India during November 2-3, 2017	2017	Springer	Impact Factor: Indexing: Article's Web Link:
Representation and Exploring the Semantic Organization of Bangla Word in the Mental Lexicon: Evidence from Cross-modal Priming Experiments and VectorSpace Model	Proceedings of the 1st International Conference on Communication, Devices and Computing (ICCDC 2017) was held in Haldia, India during November 2-3, 2017	2017	Springer	Impact Factor: Indexing: Article's Web Link:
High Capacity Reversible Data Hiding Scheme Using Dual Color Image through(7, 4) Hamming Code	Proceedings of the 1st International Conference on Communication, Devices and Computing (ICCDC 2017) was held in Haldia, India during November 2-3, 2017	2017	Springer	Impact Factor: Indexing: Article's Web Link:
Hamming code based watermarking scheme for Image Authentication and Tampered detection	Proceedings of the 1st International Conference on Communication, Devices and Computing (ICCDC 2017) will be held in Haldia, India during November 2-3, 2017	2017	Springer	Impact Factor: Indexing: Article's Web Link:
Exploring the semantic organization of Bangla words in the mental lexicon	Procedia Computer Science 115 (2017) 556-562	2017	Procedia Computer Science , Elsevier	Impact Factor: Indexing: Article's Web Link:
Partial reversible data hiding scheme using (7, 4) hamming code	Multimedia Tools and Application, Springer, 2016	2016	Springer (IF-1.530)	Impact Factor: Indexing: Article's Web Link:
Dual Image Based Reversible Data Hiding Scheme Using (7,4) Hamming Code	Multimedia Tools and Application, Springer. 2016	2016	Springer (IF-1.530)	Impact Factor: Indexing: Article's Web Link:
Dual Image based Reversible Data Hiding Scheme Using Pixel Value Difference With Exp	Proceedings of the First International Conference on Intelligent Computing and Comm	2016	Springer	Impact Factor: Indexing: Article's Web Link:

loiting Modification Direction	unication Volume 458 of the series Advances in Intelligent Systems and Computing, Pages 549-557			
Dual Image based Reversible Data Hiding Scheme using Weighted Matrix	Int. J. of Electronics and Information Engineering, Vol.5, No.1, PP. 6-19, Sept. 2016, DOI: 10.6636/IJEIE.201609.5(1).02)	2016	IJEIE	Impact Factor: Indexing: Article's Web Link:
High payload reversible data hiding scheme using weighted matrix	Optik -International Journal for Light and Electron Optics, 127(6), 3347-3358, http://dx.doi.org/10.1016/j.ijleo.2015.12.055	2016	Elsevier (Impact Factor: 0.677)	Impact Factor: Indexing: Article's Web Link:
Dual-Image Based Reversible Data Hiding Scheme Using Pixel Value Difference Expansion	International Journal of Network Security, 18(04),633-643, DOI: 10.6633/IJNS.201607.18(4).04	2016	IJNS	Impact Factor: Indexing: Article's Web Link:
An Efficient Weight Matrix based Reversible Data Hiding Scheme	International Conference on Computers and Management (ICCM-2015), Jaipur (Rajasthan), India	2015	ACM	Impact Factor: Indexing: Article's Web Link:
An Efficient Data Hiding Scheme Using Hamming Error Correcting Code	Proceedings of the Sixth International Conference on Computer and Communication Technology (ICCCT '15), 2015, Pages 360-365.	2015	ACM digital library	Impact Factor: Indexing: Article's Web Link:
Reversible Data Hiding Through Hamming Code Using Dual Image	Proceedings of the International Congress on Information and Communication Technology, Volume 439 of the series Advances in Intelligent Systems and Computing, Pages 495-504	2015	Springer (AISC).	Impact Factor: Indexing: Article's Web Link:
Dual Image Based Reversible Data Hiding Scheme Using Three Pixel Value Difference	Information Systems Design and Intelligent Applications Volume 434 of the series Advances in Intelligent Systems and Computing, Pages 403-412	2015	AISC-Springer.	Impact Factor: Indexing: Article's Web Link:

Hierarchical Visual Secret Sharing Scheme Using Steganography	Mathematics and Computing, Springer Proceedings in Mathematics & Statistics, Volume 139, pp 363-389, 2015	2015	Springer	Impact Factor: Indexing: Article's Web Link:
Weighted Matrix Based Reversible Data Hiding Scheme Using Image Interpolation	Computational Intelligence in Data Mining—Volume 2 Volume 4 11 of the series Advances in Intelligent Systems and Computing pp 239-248	2015	Springer	Impact Factor: Indexing: Article's Web Link:
Cheating Prevention in Hierarchical Visual Secret Sharing Scheme Using Weight Matrix-Based Steganography	Mathematical Sciences International Research Journal, Volume 3, No 2, ISSN-22788697, pp 796-799, 2014	2014	International Multidisciplinary Research Foundation	Impact Factor: Indexing: Article's Web Link:
Survey on Size Invariant Visual Cryptography	International Journal of Computer Science and Information Technologies, Volume 5, No. 3, pp 3985-3990, ISSN-0975-9646, 2014	2014	Tech Science Publications	Impact Factor: Indexing: Article's Web Link:
Survey on Cheating and Prevention Techniques in Visual Cryptography	Mathematical Sciences International Research Journal, 3(Special Issue), 961-976	2014	IMRF	Impact Factor: Indexing: Article's Web Link:
Cheating Prevention in Hierarchical Visual Secret Sharing Scheme using weight matrix-based Steganography	Mathematical Sciences International Research Journal, 3(2), 796-799	2014	IMRF	Impact Factor: Indexing: Article's Web Link:
Survey on Size Invariant Visual Cryptography	International Journal of Computer Science and Information Technologies, 5(3), 3985-3990	2014	IJCST	Impact Factor: Indexing: Article's Web Link:
Cheating Prevention in Visual Cryptographic Schemes Using Message Embedding: A Hardware Based Practical Approach	Proceedings of International Conference on Issues and Challenges in Intelligent Computing Techniques (ICICT-2014), pp 319 – 324, DOI: 10.1109/ICICT.2014.6781300, 2014	2014	IEEE	Impact Factor: Indexing: Article's Web Link:
Key Distribution in Wireless Sensor Networks using Quantum Cryptography	International Journal of Mobile & Adhoc Network, 3(4), 250-256.	2013	IJMAN	Impact Factor: Indexing: Article's Web Link:

Key Distribution In Wireless Sensor Networks Using Quantum Cryptography	International Journal of Mobile & Adhoc Network, Volume 3 Issue - 4, pp 250-256, ISSN 2231-6825, 2013	2013	International forum of researchers Students and Academician (IFRSA)	Impact Factor: Indexing: Article's Web Link:
Image Steganography based on Cellular Automata	International Journal of Pure and Applied Mathematics, Volume 83, No 5, pp 701-715, ISSN-1311-8080, 2013	2013	Academic Publications	Impact Factor: Indexing: Article's Web Link:
New Image Noise Reduction Schemes Based on Cellular Automata	International Journal of Soft Computing and Engineering, Volume- 2, Issue-2, pp 98-103, ISSN 2231-2707, 2012	2012	Blue Eyes Intelligence Engineering & Sciences Publication	Impact Factor: Indexing: Article's Web Link:
A Cryptosystem For Encryption and Decryption of Long Confidential Message	Information Security and Assurance Communications in Computer and Information Science, Springer, Volume 76, pp 86-96, 2010	2010	Springer	Impact Factor: Indexing: Article's Web Link:
Object Extraction Using Novel Region Merging and Multidimensional Features	Fourth Pacific-Rim Symposium on Image and Video Technology (P SIVT), pp 356 – 361, Print ISBN: 978-1-4244-8890-2 , DOI: 10.1109/P SIVT.2010.66, 2010	2010	IEEE	Impact Factor: Indexing: Article's Web Link:
Recognition Of Partially Occluded, Expressive Variant Faces Using Elastic Bunch Graph Matching	Proceedings of 1st IEEE-International Conference on Signal and Image Processing (IEEE-ICSIP-06), 2006	2006	IEEE	Impact Factor: Indexing: Article's Web Link:

### National Publication

Title	Published in	Published on	Published by	Role	Details
Parity based Image Steganography using Cellular Automata	Proceedings of National Seminar on Emerging Trends in Mathematics	2012	Vidyasagar University In collaboration with Calcutta Mathematical Society, Midnapore-721102, West Bengal		Impact Factor: Indexing: Article's Web Link:
Automatic Pitman Shorthand Script Recognition	National Seminar On Recent Trends in Ad	2012	Department of Computer		Impact Factor: Indexing:

tion Using Fuzzy Rule Based Technique	vanced Computing Organized by the Department of Computer Science Vidyasagar University.	2011	Science Vidyasagar University.	Article's Web Link:
Cellular Automata for Image noise reduction using Neighbor pixel	Advanced Communication Systems and Design Techniques (NCAC D-2011), pp. 130-137.	2011	Conference Proceeding, Department of ECE, Haldia Institute of Technology, Haldia	Impact Factor: Indexing: Article's Web Link:
Text Classifiers and Performance Issues	Conference Proceedings of National Seminar on Data Mining & Decision Support, pp.51-59, Computer Centre, Vidyasagar University, Midnapore-721102.	2010	Computer Centre, Vidyasagar University.	Impact Factor: Indexing: Article's Web Link:
An Extension of Nave Bayes Classifier using Frequent Closed Item sets	Two days National Conference on "Ubiquitous Computing 2009", Organized by R&D Cell of Guru Nanak Institute of Technology, 15/7/F, Nilgunj Road, Panihati, Sodpur, Kolkata-700114	2009	GNIT, Sodpur, Kolkata	Impact Factor: Indexing: Article's Web Link:
Expression and Pose Variant Face Image Identification Under Different Illumination Condition Using EBGM	Two days National Conference on "Ubiquitous Computing 2009", Organized by R&D Cell of Guru Nanak Institute of Technology, 15/7/F, Nilgunj Road, Panihati, Sodpur, Kolkata-700114	2009	GNIT, Sodpur, Kolkata	Impact Factor: Indexing: Article's Web Link:
A Scheme To Improve The Security Using Diffie-Hellmann's Key Distribution Scheme Coupling With RSA Algorithm	National Conference on Broad Band Integrated Digital Systems And Networks -2005, NIEC, Shatri Park, New Delhi-110053	2005	NIEC, New Delhi.	Impact Factor: Indexing: Article's Web Link:

## Other Publication

Title	Published in	Published on	Published by	Role	Details
A Hybrid System for Mood Recognition of	Proceedings of the Workshop on Multimedia	2004	ISM, Dhanbad		Impact Factor: Indexing:

Face Images using DS System & Communication Theory and Fuzzy Logic, ISM, Dhanbad.

Article's Web Link:

## Book Published

## Book Chapter Published

### PH. D. THESIS GUIDENCE

Ongoing / Submitted Ph. D. Thesis

Scholar Name	Thesis Title	Co Supervisor	Status	Complete in Year
Debashish Patra	Learning Based Approach for Detection of Fake News and Images	NA	Ongoing	0
Sudip Meikap	Development of Pixel Value Ordering (PVO) Based Data Hiding Techniques	NA	Ongoing	0
Debkumar Bera	Design and Analysis of Data Hiding Techniques for Encrypted Images	NA	Ongoing	0
Alok Halder	Development of Data Hiding Techniques for Intellectual Property Rights (IPR)	NA	Ongoing	0
Prasenjit Bera	Analysis and Measures of Fake News Detection for Social Media	NA	Ongoing	0

Awarded Ph. D. Thesis

Scholar Name	Thesis Title	Co Supervisor	Status	Complete in Year
Partha Chowdhuri	Design and Analysis of Image Steganographic Protocol	Dr. Debasis Giri, MAKAUT	Awarded	2021
Sourav Kaitya	Prioritization of Multi-Sensor Tracked Data	Dr. P K Das Gupta, DRDO	Awarded	2021
Soamdeep Singh	Design of An Effective Congestion Control Routing Protocol for Mobile-Ad-Hoc Network	Dr. Niranjana Kumar Mandal	Awarded	2021
Pabitra Pal	Design of Reversible Watermarking Techniques in Spatial Domain	Dr. Jaydeb Bhaumik, JU	Awarded	2020
Prabhash Kumar Singh	Design and Analysis of Robust Data Hiding Protocols for Multimedia Security	Dr. Kakali Datta	Awarded	0

### PROJECT WORK

### Completed Project Works

Project title	Worked as	Funding Agency	Age	Amount in Rs.	Duration in years	Period Year to Year	Status
Fake Image and News Detection on Social Media Through Trustworthy Based Community Portal	PI	SERB		2024020	3 year	2019 2022	<input checked="" type="checkbox"/> Completed
Prospects of Growth of IT/ITes in an Urban periphery: A Sociological study	Co- Investigator	UGC		62000	2 year	2015 2017	<input checked="" type="checkbox"/> Completed
Some Security Solutions based on Image Steganographic Techniques	Principal Investigator	UGC		125000	2 year	2015 2017	<input checked="" type="checkbox"/> Completed

### INVITED LECTURES

Title	Organized by	Venue	Year
Dual Image Authentication	One Week FDP on Image Authentication, WS N & IoT organised by JIS College of Engineering, West Bengal	Webinar	2020
Steganography: an art of hidden communication	Department of Mathematics and Computer Science, Mahishadal Raj College.	Mahishadal Raj College, Purba Midnapore	2020
Watermarking Schemes	Egra SSB College, Paschim Medinipur	Egra SSB College, Paschim Medinipur	2020
Reversible Data Hiding Schemes	Department of Computer Applications, Sikkim University, Gangtok, Sikkim, India	Sikkim University, Gangtok, Sikkim, India	2020
MATLAB and its Applications	Department of Mathematics, Kharagpur College, WB, India	Kharagpur College, WB, India	2020
Machine Learning and Its Trending Applications	Department of Computer Science and Application, Hijli College, Kharagpur, Paschim Medinipur WB	Kharagpur, Paschim Medinipur WB	2020
Machine Learning and Steganography	Department of Computer Science and BCA Kharagpur College, WB, India	Kharagpur College, WB, India	2020

Changing Times and New Class rooms	Organized by the WBCUPA, South 24 PGS	WBCUPA, South 24 PGS	2020
Emerging Need of Digital Education in the Context of Covid -19 Pandemic	Organized by the Department of BCA, Garhbeta College, WB	Garhbeta College, WB	2020
Multimedia Security	Sikkim University, Gangtok, Sikkim, India	Sikkim University, Gangtok, Sikkim, India	2020
Steganography -An Art of Hidden Communication	Guru Nanak Institute Of Technology (GNIT) Kolkata	Kolkata	2020
Cyber Security used in Asian Business	BIBS, Kolkata with Vidyasagar University at Dubai, United Arab Emirates	Dubai, United Arab Emirates	2019
Data Hiding Schemes	Silda Chandra Sekhar Colleg, Silda, Jhargram, West Bengal	Silda, Jhargram, West Bengal	2019
Fake Image and News Detection on Social Media Through Trust-ware Based Community Portal	Biswa Bangla Convention Center, Kolkata	Biswa Bangla Convention Center, Kolkata	2019
Steganography: an art of hidden communication	Department of Computer Science and BCA, Belda College, Paschim Medinipur	Belda College, Paschim Medinipur	2019
Secure Reversible Data Hiding Approach	The Department of Computer Science, Belda College, Midnapore, West Bengal, India	Belda College, Midnapore, West Bengal, India	2019
Image Steganography- An art of hidden communication	Department of Computer and Information Science (DCIS), Raiganj University, West Bengal, Raiganj	Raiganj University, West Bengal, Raiganj	2019
Steganography-an art of Hidden Communication	Department of BCA, Silda Chandra Sekhar College, Silda, West Bengal, India.	Silda Chandra Sekhar College, Silda.	2019
Special lecture on “Steganography –An art of hidden communication”	Bangabasi Morning College, 19, Rajkumar Chakraborty Sarani, Kolkata- 700009 on 19th November 2016.	Bangabasi Morning College	2016
Steganography-an art of hidden communication	Department of Computer Science and Application, Hijli College, Midnapore-721306	Hijli College	2015

Emerging Trend on Computer Science	Department of Computer Science, Belda College, Belda, Paschim Medinapore, West Bengal	Belda College 2014
C Language and its Applications	Department of Mathematics, Kharagpur College, Inda, Kharagpur, Paschim Medinipur, West Bengal, India	Kharagpur College 2012
Call Admission Control in Mobile Cellular Network	Department of Computer Science, Vivekananda Mission Mahavidyalaya, Chaitanyapur, Purba Medinipur, Pin-721645 West Bengal	Vivekananda Mission Mahavidyalaya 2009

### MEMBERSHIP OF LEARNED SOCIETY

Computer Society of India (CSI), Membership No. I1510360

### ASSOCIATION WITH PROFESSIONAL BODIES

Type of Professional Activity	Period
Reviewer of the International Journal of Security and Communication Networks, Hindawi Publishing Corporation.	2016 to 2016
Reviewer of the International Journal of Network Security (IJNS), ISSN 1816-353X (Print), ISSN 1816-3548 (Online), Impact Factor: 1.3921	2015 to 2015
Technical Committee Member, International Symposium on Advanced Computing and Communication (ISACC)-2015 which was held on 14-15 September, 2015 in the Department of Computer Science and Engineering, Assam University, Silchar, Assam, India.	2015 to 2015
Reviewer of the International Conference on Intelligent Computing and Communication (ICIC2-2016), February 18-19, 2016, Organized by the Faculty of Engineering, Management and Technology, University of Kalyani, West Bengal, India	2016 to 2016
Reviewer of the International Journal, IETE Technical Review	2018 to 2019
Reviewer of Engineering Science and Technology, an International Journal, Elsevier,	2018 to 2019
Reviewer of "2nd International Conference on Information Technology and Applied Mathematics (ICITAM 2019)" is going to be a premier conference which is being organized during March 07-09, 2019 at Haldia Institute of Technology, India. ICITAM 2019"	2018 to 2019
Reviewer of "CICBA 2018" Kalyani Government Engineering College, Kalyani, West Bengal, India on July 27-28, 2018"	2018 to 2018
Reviewer of "Optik- International Journal for Light and Electron Optics"- Elsevier, IF- 1.191	2018 to 2018
Reviewer of "IEEE Access -Multidisciplinary Open Access Journal" IEEE, IF- 3.557	2018 to 2019

Reviewer of “1st International Conference on Contemporary Advances in Innovative & Applicable Information Technology (ICCAIAIT-2018)” Organized by Kingston Educational Institute, Berunanpukuria, Barasat, Kolkata-7000126, March 24-25, 2018 2018 to 2018

11. Reviewer of “CSI2017 (International Conference on Social Transformation - Digital Way)” – 19-21 January, 2018, Kolkata. 2017 to 2017

Reviewer of The Visual Computer, International Journal of Computer Graphics, Springer (IF-1.036) 2018 to 2019

Reviewer of Future Generation Computer Systems, The International Journal, Elsevier, (IF-4.639) 2018 to 2019

Technical Program Committee Member of the “Online Conference on Green Communication, Network and Systems (OGCNS-2018)”, July 7, 2018, India. 2017 to 2017

Technical Program Committee Member of the “International Conference on Information Technology and Applied Mathematics (ICITAM 2017)” October 30-November 01, 2017 at Haldia Institute of Technology, India. 2017 to 2017

Reviewer of “International Conference on Computer, Electrical & Communication Engineering (ICCECE-2017)” 16-17, December-2106, Techno India University, Kolkata, West Bengal India. 2016 to 2017

## CONFERENCE /SEMINAR/WORKSHOP ATTENDED/ORGANISED

### Conference /Seminar/Workshop Attended

Title of the Seminar/Conference/Workshop	Year	Role	Held at and Organiser
International Conference on Politics, Trade and Business in Asia-The 21st Century	2019	Paper Presenter	Dubai, United Arab Emirates
International Conference On Computational Intelligence In Pattern Recognition (CIPR 2019)	2019	Paper Presenter	Indian Institute Of Engineering Science And Technology, Shibpur, 19th-20th January 2019.
Young Scientists' Conference, A part of India International Science Festival -2019.	2019	Paper Presenter	Biswa Bangla Convention Centre, Kolkata, West Bengal, India.
International Conference on Innovations in Computer Science, (ICICS-2018)	2018	Author	The Department of Computer Science, The University of Burdwan, West Bengal, India
International Conference on Communication, Devices, and Computing (ICDC 2017)	2017	Author	Haldia, India during November 2-3, 2017.
First International Conference on “Intelligent Computing and Communication (ICIC2-2016)”, February 18-19, 2016	2016	Paper Presenter	University of Kalyani, West Bengal, India

Third International Conference on Computing and Systems (ICCS - 2016), January 21-22, 2016	2016	Paper Presenter	Department of Computer Science, The University of Burdwan, Burdwan, West Bengal, India
International Conference on Computer and Management (ICCM - 2015), December 16-17, 2015	2015	Paper Presenter	Organized by the Center for Global Management, California State University, USA and International Association of Academicians (IAASSE), Jaipur, Rajasthan, India
International Conference on Mathematics and Computing (ICMC – 2015)	2015	Paper Presenter	Haldia Institute of Technology ICARE Complex, HIT Campus, Hatiberia, Haldia Purba Medinipur, West Bengal – 721657, India, January 05-10, 2015
National Seminar on Information Technology-2015	2015	Resource Person	Department of Computer Science and Application, Hijli College, Midnapore-721306 on 7/10/2015
Use of ICT in Teaching –Learning process	2014	Participated	National Institute of Technical Teacher’s Training and Research (NITTTR) Kolkata-700106 from 04th August 2014 to 08th August 2014
International Conference on Mathematical Sciences – 2014	2014	Paper Presenter	School of Mathematics, Madurai Kamaraj University, Madurai, Tamil Nadu, India
International Conference on Issues and Challenges in Intelligent Computing Techniques (ICICT-2014)	2014	Paper Presenter	Krishna Institute of Engineering & Technology, Ghaziabad, India
IMRF Overseas Conference	2014	Paper Presenter	IMRF at Thailand, Hotel DV area, Jomtien Beach Road, Pattaya City, Chonburi, Thailand-20260
Workshop on Algorithms	2014	Participated	Department of Information Technology, National Institute of Technology Durgapur, during 22nd -26th January, 2014.
International Conference on Mathematics and Computing(ICMC – 2013)	2013	Participated	Haldia Institute of Technology ICARE Complex, HIT Campus, Hatiberia, Haldia Purba Medinipur, West Bengal – 721657, India
Two days Zonal Seminar on “ ICT in Present Wireless Revolution: Challenges and Issues”	2013	Paper Presenter	The IETE, Kolkata Centre, Saltlake, Kolkata, west Bengal, India
National Conference on Recent Trends in Mathematical Sciences and Their Applications	2012	Paper Presenter	Faculty of Engineering & Technology, Mody Institute of

lications( NCRTMSA-2012)			Technology & Science, Lakshmanagarh-332311, Sikar, Rajasthan, India
Three days State Level Work Shop on “C Language and its Applications”	2012	Invited Speaker	Department of Mathematics, Kharagpur College, Inda, Kharagpur, Paschim Medinipur, West Bengal, India
National Seminar on Emerging Trends in Mathematics	2012	Participant	Vidyasagar University In collaboration with Calcutta Mathematical Society, Midnapore-721102, West Bengal
National Conference on Advanced Communication Systems and Design Techniques (NCACD) , November 5-6, 2011.	2011	Participant	Department of Electronics and Communication Engineering HALDIA INSTITUTE OF TECHNOLOGY, Haldia, Purba Medinipur, West Bengal PIN: 721657, India
The International Conference on Information Security and Assurance [ISA-2010] , June 23 - 25, 2010.	2010	Paper Presenter	Sheraton Grande Ocean Resort, Miyazaki, Japan
State Level Seminar on “ Call Admission Control in Mobile Cellular Network” , 15th January, 2009.	2009	Invited Speaker.	Deaprtment of Computer Science, Vivekananda Mission Mahavidyalaya , Chaitanyapur, Purba Medinipur, Pin-721645 West Bengal.
Workshop on “ Researching Distance and Online Learning “ October 03-05, 2007.	2007	Participant	IGNOU Regional Centre, Bhubaneswar & STRIDE, IGNOU, New Delhi. At IGNOU Regional Centre, Bhubaneswar.
1st IEEE-International Conference on Signal and Image Processing (IEEE-ICSIP-06),	2006	Paper Presenter	B V Bhoomaraddi College of Engineering and Technology, Hubli, Karnataka, India
Eastern Regional Students Convention , CSI-2002.	2002	Participant	Computer Society of India (CSI), Kolkata Chapter
International Workshop on Distributed Computing	2001	Participant	Department of Computer Science & Engineering , Calcutta University

### Conference /Seminar/Workshop Organised

Title of the Conference/Seminar/Workshop	Year	Role in the Event	Funding Agency
3rd National Seminar on Advanced Computation, Algorithm and Security (ACAS-2K18), 29th March, 2018, Organized by the Department of Computer Science, Vidyasagar University	2018	Member of Organizing Committee	UGC
2nd National Seminar on Advanced Computation, Algorithm and Security (ACAS-2K17), 29th March, 2017, Organized by the Department of Computer Science, Vidyasagar University	2017	Member of Organizing Committee	UGC

AS-2K17), 30th March, 2017, Organized by the Department of Computer Science, Vidyasagar University			
National Seminar on Advanced Computation, Algorithm and Security (ACAS-2K16), 29th – 30th March, 2016, Organized by the Department of Computer Science, Vidyasagar University	2016	Joint Organizing Secretary	UGC
UGC Sponsored National Seminar on Emerging Trends in Mathematics Organized by Vidyasagar University In collaboration with Calcutta Mathematical Society, Midnapore-721102, West Bengal	2012	Member of Organizing Committee	UGC
National Seminar On Recent Trends in Advanced Computing Organized by Department of Computer Science, Vidyasagar University	2012	Organizing Secretary	UGC
Workshop on .(DOT) Net Technology Organized by Department of Computer Science, Vidyasagar University, February 15-19, 2010.	2010	Joint Secretary	UGC
National Seminar on Data Mining & Decision Support Organized by Computer Centre, Vidyasagar University, March 4-5, 2010.	2010	Member of Organizing Committee	UGC
National Seminar On Next Generation Computing Organized by Department of Computer Science, Vidyasagar University, March 30-31st , 2010.	2010	Joint Secretary	UGC
National Seminar on Image Classification & Pattern Recognition Organized by Department of Computer Science, Vidyasagar University, 26-27th March, 2009.	2009	Organizing Secretary	UGC

## AWARDS

Award Name	Awarde d By	Year
Best Paper Award, in The International Conference at Calcutta Business School, Kolkata on March 24-25, 2017	Springer	2017

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