**CURRICULUM VITAE**

**NAME & PRESENT ADDRESS:**

# ANIRBAN BHOWMIK

# Kalikapur, Saradapally

# P.O. - Bolpur, Dist. - Birbhum (West Bengal)

***Pin: 731204***

***Phone No.: +91-9732383024***

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***Current Status:***

Working as a State Aided College Teacher (SACT-I) in the Department of Computer Science at M.U.C. College, Purba Bardhaman

### Career Objectives:

To work in an environment that nurtures technical ability, hard work, dedication and the capacity to learn.

***Educational Qualifications:***

|  |  |  |  |
| --- | --- | --- | --- |
| ***Examination*** | ***Board/University*** | ***Year of Passing*** | ***Class/Div.*** |
| Class 10th / Madhyamik | W.B.B.S.E | 1997 | 1st |
| Class 12th / Higher Secondary | W.B.C.H.S.E. | 1999 | 1st |
| B.Sc. (Math.) | The University of Burdwan | 2002 | 2nd |
| M.C.A. | The University of Burdwan. | 2008 | 1st |

* NET (National Eligibility Test) Qualified in the stream Computer Science & Application.

***Personal Details:***

DATE OF BIRTH : 15.04.81

FATHER’S NAME : Achintya Kumar Bhowmik

MOTHER’S NAME : Aparna Rani Bhowmik

LANGUAGE KNOWN: English, Hindi & Bengali

HOBBY : Reading books.

***Refereed Journal Articles / Publications:***

1. ***SSCI & SCOPUS INDEXED JOURNALS:***
2. Bhowmik A., Dey J., Sarkar A., Karforma S. (2019), ***Computational Intelligence based Lossless Regeneration (CILR) of Blocked Gingivitis Intraoral Image Transportation***, IAES International Journal of Artificial Intelligence (IJ-AI), Vol 8(3), September,2019, pp:197-204, ISSN: 2252-8938, **UGC Journal No. ,** *indexed by****SCOPUS, WEB OF SCIENCE*** *etc.*
3. Dey J., Bhowmik A., Sarkar A., Karforma S. (2019), ***Privileged Authenticity in Reconstruction of Digital Encrypted Shares***, IAES International Journal of Artificial Intelligence (IJ-AI), Vol 8(2), June,2019, pp:175-180, ISSN: 2252-8938, **UGC Journal No. ,** *indexed by****SCOPUS, WEB OF SCIENCE*** *etc.*
4. Sarkar A., Dey J., Chatterjee M., Bhowmik A., Karforma S. (2019). ***Neural Soft Computing based Secured Transmission of Intraoral Gingivitis Image in E-Health***, Indonesian Journal of Electrical Engineering and Computer Science Vol -14(1), April, 2019. Print ISSN: 2502-4752, E ISSN: 2502-4760, **UGC Journal No. 47077***, indexed by****SCOPUS****,* ***WEB OF SCIENCE****, EI (INSPEC, IET), Google Scholar Metrics, ProQuest, EBSCO, DOAJ, BASE, OALib, SHERPA/RoMEO etc.*
5. Sarkar A., Dey J., Bhowmik A. (2019), ***Multilayer Neural Network Synchronized Secured Session Key based Encryption in Wireless Communication***, Indonesian Journal of Electrical Engineering and Computer Science , Vol -14(1), April,2019.Print ISSN: 2502-4752, E ISSN: 2502-4760, **UGC Journal No. 47077,** *indexed by****SCOPUS****,* ***WEB OF SCIENCE,*** *EI (INSPEC, IET), Google Scholar Metrics, ProQuest, EBSCO, DOAJ, BASE, OALib, SHERPA/RoMEO etc.*
6. Bhowmik, A., Karforma, S. Linear feedback shift register and integer theory: a state-of-art approach in security issues over e-commerce. Electron Commer Res (2021). https://doi.org/10.1007/s10660-021-09477-w.
7. **UGC REFEREED JOURNALS:**
8. Anirban Bhowmik, Arindam Sarkar, Sunil Karforma, Joydeep Dey (2019). "***A Symmetric Key based Secret Data Sharing Scheme***", International Journal of Computer Sciences and Engineering, Vol.07, Issue.01, pp.188-192, 2019. ISSN 2347-2693,**Impact Factor Value 3.022, UGC Journal No. 63193,** *Indexed by: Emerging Sources Citation Index (in process), Indian Citation Index, ROAD: the Directory of Open Access scholarly Resources, Research Gate, A UGC Recognized Journal, Google Scholar, Academia Database, DPI Digital Library*
9. Joydeep Dey, Sunil Karforma, Arindam Sarkar, Anirban Bhowmik (2019). "***Metaheuristic Guided Secured Transmission of E-Prescription of Dental Disease***", International Journal of Computer Sciences and Engineering, Vol.07, Issue.01, pp.179-183, 2019. ISSN 2347-2693,**Impact Factor Value 3.022, UGC Journal No. 63193,** *Indexed by: Emerging Sources Citation Index (in process), Indian Citation Index, ROAD: the Directory of Open Access scholarly Resources, Research Gate, A UGC Recognized Journal, Google Scholar, Academia Database, DPI Digital Library*
10. Arindam Sarkar, Joydeep Dey, Anirban Bhowmik, Sk. Samim Ferdows (2019). "***A Dynamic Key Generation Scheme based on Metaheuristic Cuckoo Search***", International Journal of Computer Sciences and Engineering, Vol.07, Issue.01, pp.184-187, 2019. ISSN 2347-2693,**Impact Factor Value 3.022, UGC Journal No. 63193,** *Indexed by: Emerging Sources Citation Index (in process), Indian Citation Index, ROAD: the Directory of Open Access scholarly Resources, Research Gate, A UGC Recognized Journal, Google Scholar, Academia Database, DPI Digital Library.*
11. Bhowmik, Anirban, Sunil Karforma, and Joydeep Dey. "Recurrence relation and DNA sequence: A state-of-art technique for secret sharing." Int. J. Reconfigurable Embed. Syst 10.1 (2021): 65.

**BOOK-CHAPTERS (SCOPUS INDEXED):**

1. Bhowmik A., Karforma S., Dey J., Sarkar A. (2020), ***Fuzzy-Based Session Key as Restorative Power of Symmetric Key Encryption for Secured Wireless Communication***. In: Kundu S., Acharya U., De C., Mukherjee S. (eds) Proceedings of the 2nd International Conference on Communication, Devices and Computing. Lecture Notes in Electrical Engineering, vol 602. Springer, Singapore.
2. Bhowmik A., Karforma S., Dey J., Sarkar A. (2021) Approximation Algorithm and Linear Congruence: A State-of-Art Approach in Information Security Issues Towards Internet of Vehicles. In: Gupta N., Prakash A., TripathiR. (eds) Internet of Vehicles and its Applications in Autonomous Driving. Unmanned System Technologies.Springer, Cham. https://doi.org/10.1007/978-3-030-46335-9\_10.
3. Sarkar A., Dey J., Bhowmik A., Mandal J.K., Karforma S. (2019), ***Computational Intelligence Based Neural Session Key Generation on E-Health System for Ischemic Heart Disease Information Sharing,*** In: Mandal J., Sinha D., Bandopadhyay J. (eds) Contemporary Advances in Innovative and Applicable Information Technology. Advances in Intelligent Systems and Computing, vol 812. Springer, Singapore, **DOI:** https://doi.org/10.1007/978-981-13-1540-4\_3, **Print ISBN** 978-981-13-1539-8, **Online ISBN** 978-981-13-1540-4, **UGC Journal No. 49365,** *Indexed by:* ***SCOPUS*** *, ISI Proceedings, EI-Compendex, DBLP, Google Scholar and* ***Springerlink***
4. Sarkar A., Dey J., Bhowmik A., Mandal J.K., Karforma S. (2018), ***Energy Efficient Secured Sharing of Intraoral Gingival Information in Digital Way (EESS-IGI),*** In: Mandal J., Sinha D. (eds) Social Transformation – Digital Way. Communications in Computer and Information Science, vol 836. **Springer**, Singapore, ISSN: 1865-0929, **UGC Journal No. 16246** *Indexed by:* ***SCOPUS****, DBLP, Google Scholar, EI-Compendex, Mathematical Reviews, SCImago.*
5. Bhowmik, Anirban, et al. "Approximation Algorithm and Linear Congruence: A State-of-Art Approach in Information Security Issues Towards Internet of Vehicles." Internet of Vehicles and its Applications in Autonomous Driving. Springer, Cham, 2021. 149-172.
6. Bhowmik, Anirban, et al. "A Novel Approach in Communication Security of Internet-of-Vehicles Using the Concept of Recurrence Relation and Symmetric Key." *Augmented Intelligence Toward Smart Vehicular Applications*. CRC Press, 2020. 123-146.

1. **SCIENCE CONGRESS (GOVT. OF WEST BENGAL):**

1. Bhowmik A., Dey J., Karforma S., Sarkar A. (2017), ***Implementation of security of multimedia documents using RSA encryption and watermarking***, In the proceedings of 2nd Regional Science & Technology Congress (WR), 2017, Burdwan University, pp. 23

2.Sarkar A., Dey J., Bhowmik A. (2018), ***Cryptographic Bit-Clustering Transmission Protocol for Computer Vision Syndrome***, In the proceedings of 3rd Regional Science & Technology Congress(SR), 2018, Bidhan Nagar College, Salt Lake, pp. 129.

3. Sarkar A., Bhowmik A., Dey J., Ferdows S Sk. (2018), ***Ciphered Object Oriented Approach towards Mathematical Problem Solving in Online Transactions***, In the proceedings of 3rd Regional Science & Technology Congress(SR), 2018, Bidhan Nagar College, Salt Lake, pp. 161.

4. Bhowmik A., Dey J., Sarkar A. (2018), ***An Approach on Data Security with the Combination of Symmetric and Asymmetric Key Encryption***, In the proceedings of 3rd Regional Science & Technology Congress(SR), 2018, Bidhan Nagar College, Salt Lake, pp. 133.

5. Datta A., Dey J., Bhowmik A., Sarkar A (2018), ***Digital Authentication Based On Homogeneous Blocks Length Fusion*** , In the proceedings of 3rd Regional Science & Technology Congress(SR), 2018, Bidhan Nagar College, Salt Lake, pp. 127.

6. Sarkar A., Dey J., Bhowmik A., Ahir N., Datta A., Sinha S., Mondal P. (2018), ***Key Robustness Analysis Under Current Trends in Cryptanalysis*** , In the proceedings of 3rd Regional Science & Technology Congress(SR), 2018, Bidhan Nagar College, Salt Lake, pp. 149.

7. Sarkar A., Mondal P., Dey J., Bhowmik A., Sinha S., Ahir N.(2018), ***Innovative Mapping of Probabilistic Fuzzy into Merge Sort Algorithm*** , In the proceedings of 3rd Regional Science & Technology Congress(SR), 2018, Bidhan Nagar College, Salt Lake, pp. 148.

8. Dey J., Bhowmik A., Sarkar A., Karforma S. (2017), ***A novel technique for secured transmission of intraoral image of Gingivitis disease***, In the proceedings of 2nd Regional Science & Technology Congress(WR), 2017, Burdwan University, pp. 207.

1. **OTHERS:**
2. Dey J., Sarkar A., Bhowmik A. (2018), ***Digital Transmission of Spectral Tansmittance Curve for Computer Vision Syndrome Disease*** , In the proceedings of National Level Seminar entitled “Non Communicable Disease and Its prevention: Challenge with Nutraceutical ” , Department of Nutrition, M.U.C Women’s College, Burdwan, Feb. 2018, pp. 10.
3. Bhowmik A, Karforma S, Dey J, Sarkar A (2020), ***A Defensive Approach against Mathematical Cryptanalysis using Symmetric Key and Fuzzy based Session Key***, In the Journal of Mathematical Sciences & Computational Mathematics 1(3), 272-299.

**University Recognition in Academic Affairs:**

1. Acted as ***Examiner, External Examiner, Internal Examiner, and Scrutinizer*** in B.C.A (Hons.) [Part System & CBCS System] Examinations under the University of Burdwan from 2010 to till date.

**Other Academic Performances:**

1. Acted as a **Guest Resource Person** at ***ADD-ON Course entitled “Soft Skills Enhancement”,*** organized by the Department of Computer Science at M.U.C. Women’s College in the academic session 2017-2018.
2. Acted as a **Guest Resource Person** at ***ADD-ON Course entitled “Introduction to Office Tools”,*** organized by the Department of Computer Science at M.U.C. Women’s College in the academic session 2018-2019.
3. Acted as a **Speaker (Special lecture)** at ***State-Level Seminar entitled “Nature Inspired Biological Computations (NIBC-2019)”***, organized by the Department of Computer Science at M.U.C. Women’s College on 28th February, 2019.

#### Date: 19/07/2022

#### Place: Bolpur, West Bengal, India (Anirban Bhowmik)