

**CURRICULUM VITAE**  
**OF**  
**DR. ARINDAM SARKAR**

(Asst. Professor, Dept. of Computer Science & Electronics, Ramakrishna Mission Vidyamandira, Belur Math)  
Ex. INSPIRE Fellow, Department of Science & Technology (DST), Govt. of INDIA)

<b>CONTACT NO:</b> MOBILE: (+91)-9851700660 (+91)-8240007574  E-MAIL: <a href="mailto:arindam.vb@gmail.com">arindam.vb@gmail.com</a> <a href="mailto:arindamsarkar@vidyamandira.ac.in">arindamsarkar@vidyamandira.ac.in</a>	<b>OFFICIAL ADDRESS:</b> Department of Computer Sc. & Electronics Ramakrishna Mission Vidyamandira Belur Math, Howrah-711202, WB, India  <b>PERMANENT ADDRESS:</b> Arovil Pally, Sadhanpur, Burdwan, Purba Burdwan-713101, WB, India
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**CAREER INTEREST**

Seeking a position to utilize my skills and abilities in an educational and research institution that offers a good opportunity for growth and help me to develop a successful career. My total number of research publications is 64 including Web of Science, SCI indexed (*Thomson Reuters*), SCOPUS indexed International Journals and Book Chapters.

**EDUCATION**

- ❖ Ph.D Thesis entitled “Towards Design and Implementation of Soft Computing based Cryptographic Techniques for Wireless Communication” under the supervision of Prof. (Dr.) J. K. Mandal, Department of Computer Science and Engineering, Faculty of Engineering, Technology and Management, University of Kalyani, WB, India awarded on 09.07.2015 by the University.
- ❖ Ex. INSPIRE Fellow (Senior Research Fellow-Professional) of Department of Science & Technology (DST), Govt. of INDIA in Computer Science & Engineering stream at Department of Computer Science & Engineering, University of Kalyani, WB, India.

**Educational Qualifications**

Name of the Examination	Board/Council/University	Year of Passing	Division / Class
The West Bengal College Service Commission Examination (ADVT NO. 1/2015), Computer Science stream	The West Bengal College Service Commission	2016	SECOND RANK HOLDER IN WEST BENGAL COLLEGE SERVICE EXAMINATION
Ph.D (Engineering) Specialization: Computer Science & Engg.	UNIVERSITY OF KALYANI	2015	UNDER , INSPIRE FELLOWSHIP SCHEME OF DEPT. OF SCIENCE & TECHNOLOGY (DST), NEW DELHI
Master Degree: M.TECH (Computer Science & Engineering)	UNIVERSITY OF KALYANI	2011	UNIVERSITY FIRST CLASS FIRST RANK HOLDER
Master Degree: M.C.A (Master of Computer Application)	VISVA BHARATI, SANTINIKETAN	2008	UNIVERSITY FIRST CLASS FIRST RANK HOLDER WITH DISTINCTION
Graduation Degree: B.C.A (HONS.) (Bachelor of Computer Application)	THE UNIVERSITY OF BURDWAN	2005	UNIVERSITY FIRST CLASS TENTH RANK HOLDER
HIGHER SECONDARY. (10+2)	W.B.C.H.S.E.	2002	FIRST CLASS
MADHYAMIK (10)	W.B.B.S.E.	2000	FIRST CLASS

- ❖ 2<sup>ND</sup> RANK HOLDER IN THE WEST BENGAL COLLEGE SERVICE COMMISSION EXAMINATION FOR GENERAL DEGREE COLLEGES REF : ADVT NO. 1/2015 IN COMPUTER SCIENCE
- ❖ GRADUATE APTITUDE TEST IN ENGINEERING (GATE) QUALIFIED

## Research and Teaching Experience

of

**Dr. ARINDAM SARKAR**

### Research Experience:

- ❖ Ex. INSPIRE Fellow (Senior Research Fellow-Professional) of Department of Science & Technology (DST), Govt. of INDIA in Computer Science & Engineering stream at Department of Computer Science & Engineering, University of Kalyani, WB, India from 30.11.2011 to 09.07.2015.

### Teaching Experiences:

#### 2015-19:

- ❖ Asst. Professor, Department of Computer Science at Ramakrishna Mission Vidyamandira (A Residential Autonomous College under University of Calcutta with CPE status), Belur Math, Howrah-711202, WB, India from 18.11.2016 to till date.
- ❖ Appointed as a Reviewer/ Editor of the self learning material for distance education under Director of distance Education, Vidyasagar University.
- ❖ Appointed as a Question Paper Setter and Examiner of MCA stream of Vidyasagar University, Midnapore.
- ❖ Appointed as a Question Paper Setter of B.Sc. stream of West Bengal State University and University of Kalyani.
- ❖ Appointed as a Question Paper Setter of MSc Computer Science stream of Sarsuna College, Calcutta University.
- ❖ Former Visiting Faculty at The University of Burdwan, WB, India in M.Sc (Computer Science) stream.
- ❖ Former Visiting Faculty at University of Kalyani, WB, India in M.Tech (Computer Science & Engineering) & MCA stream.
- ❖ Former Visiting Faculty at Indian Institute of Information Technology (IIIT) Kalyani, WB, India in B.Tech (Computer Science & Engineering) & B.Tech (Information Technology) stream.
- ❖ Former Visiting Faculty at Kalyani Govt. Engineering College (KGEC), WB, India in M.Tech (Information Technology) and B.Tech (Information Technology) stream.
- ❖ Former Guest Lecturer at M.U.C. Women's College (a constituent college under The University of Burdwan, WB, India), Burdwan in B.Sc (Computer Science Hons.) stream.

#### 2012-15:

- ❖ Served as a DST INSPIRE SRF-Professional cum Teaching Assistant in M.Tech(Computer Science & Engineering) stream at Department of Computer Science & Engineering, University of Kalyani, WB, India up to 09/07/2015.

#### 2008-2011:

- ❖ Served as a Full Time Faculty (Contractual) in M.C.A stream at “Department of Computer Science”, The University of Burdwan, WB, India from 16/12/2008 to 12/07/2009.
- ❖ Served as a Guest Lecturer in M.Sc (Computer Science) and M.C.A stream at The University of Burdwan WB, India from 13/07/2009 to 29/11/2011.
- ❖ Served as a Guest Lecturer in B.C.A (Hons.) stream at “Burdwan Institute of Management & Science (BIMS)”, a degree college affiliated by The University of Burdwan, WB, India from 8/09/2008 to 15/12/2008 and 13/07/2009 to 29/11/2011.
- ❖ Served as a Guest Lecturer in B.Tech (Computer Science & Engineering) stream at “Swami Vivekananda Institute of Science And Technology”, a degree college affiliated by West Bengal University of Technology (WBUT), WB, India from 1/01/2011 to 30/06/2011.
- ❖ Served as a Guest Lecturer in B.C.A (Hons.) stream at “Chandannagar Institute of Management & Technology (CIMT)”, a degree college affiliated by The University of Burdwan, WB, India from 01/01/2011 to 30/06/2011.

- ❖ Served as a Guest Lecturer at M.U.C. Women's College (a constituent college under The University of Burdwan, WB, India), Burdwan in B.Sc (Computer Science Hons.) stream from 05/07/2011 to 29/09/2011.
- ❖ Appointed as a Question Paper Setter, Moderator, Examiner, Reviewer of various subjects of M.C.A, M.Sc. (Computer Science), B.C.A (Hons.), B.Sc (Computer Science), Application In Business (Theory Part) Paper VI and practical for the B.Com Part III Honours stream by The University of Burdwan, WB, India in the period of 16/12/2008 to 29/11/2011.
- ❖ Acted as a Chairman of B.Sc (Computer Science) General Part I Examination of The University of Burdwan, WB, India.
- ❖ Acted as a Convener of B.C.A (Hons.), Part I And Part II Practical Examinations (B.C.A- 209 & B.C.A-109) of The University of Burdwan, WB, India.
- ❖ Appointed as an author of a study material of M.Sc. (Computer Science) stream by The University of Burdwan, WB, India in the year of 2009.

### **Major Project (Research & Development Project) taken up as a Co-Principal Investigator:**

**Title of the project:** Estimation & Mapping of concentration of contaminants in drinking water by cost effective and wireless portable device.

**Sponsored by** : Government of West Bengal Department of Higher Education, Science & Technology and Biotechnology (Science & Technology Branch and Biotechnology Branch) Vigyan Chetana Bhavan Dd-26/B, Sector I, Salt Lake, Kolkata-700 064.

### **Presided as a Session Co-Chair**

Session Co-chaired at the Technical Session at State-Level Seminar entitled “Nature Inspired Biological Computations (NIBC-2019), organized by the Department of Computer Science, M.U.C. Women's College (a constituent college under The University of Burdwan, WB, India), Burdwan on 28.02.2019.

### **Acted as a Jury Member**

Served as a Jury member panel at the Poster Competition on “Mathematics For All” by observing National Mathematics Day (NMD-2018), organized by the Department of Computer Science, in collaboration with the Department of Mathematics, M.U.C Women’s College, sponsored by DST & Biotechnology, Govt. of WB at M.U.C. Women’s College, Burdwan on 19.03.2019.

### **Acted as a Keynote Speaker / Speaker / Resource Person**

1. Delivered a lecture entitled “A Stochastic Simulation of Artificial Bee Colony Algorithm based Optimization” as a Keynote Speaker at State-Level Seminar entitled “Nature Inspired Biological Computations (NIBC-2019), organized by the Department of Computer Science, M.U.C. Women's College by observing National Science Day on 28.02.2019.
2. Presentation as speaker at Orientation Programme on “Office Automation” entitled “Security in Smart Gadgets” at M.U.C. Women’s College on 06.06.2018, organized by the Department of Computer Science, M.U.C. Women's College.
3. Delivered a lecture as a Resource Person at Faculty Development Programme entitled “Soft Skills Enhancement on Vernacular Documentation” at M.U.C. Women’s College, Burdwan on 23.02.2018, organized by the Department of Computer Science, M.U.C. Women's College.
4. Delivered a lecture on “Design and Analysis of problem using Object Oriented Paradigm” as a Speaker in one day seminar on “Problem Solving through Object Oriented Analysis and Design” , organized by the Department of Computer Science, M.U.C. Women's College on 18.09.2017.

5. Delivered a lecture as a Speaker in one day workshop on “ICT based E-Secured Application Software” entitled “Internet Security Threats and Solutions”, organized by the Department of Computer Science, M.U.C. Women's College on 21.04.2017.

### **Knowledge Sharing:**

1. Two (2) classes taken at ADD-ON Course on “Soft Skills Enhancement” at M.U.C. Women's College on 04.06.2018, organized by the Department of Computer Science, M.U.C. Women's College.
2. Theory and Practical classes taken for B.Sc [ Physics (Hons.)] Semester 1 CBCS and B.A [Physical Education(Gen)] IIIrd Year at M.U.C Women's College during academic session 2017-18 and 2018-19.

### **Organizer of Spoken Tutorial Project, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt., of India**

Worked as an Organizer at Spoken Tutorial, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt. of India, held at M.U.C. Women's College on 8<sup>th</sup> November, 2016 conducted remotely from IIT Bombay.

### **All India Council of Technical Education (AICTE) Sponsored Faculty Development Program (FDP) Attend:**

AICTE Sponsored Two Week Faculty Development Programme (FDP) on Soft Computing Approach in Cryptography held on 17-28 June, 2013, Department of Information Technology, Kalyani Government Engineering College, Kalyani, Nadia-741235, West Bengal, India.

### **Workshop Attend:**

1. Two Day Workshop on “Emerging Trends in Image Processing, Computer Vision & Pattern Recognition” (IPCVP-2018) held on 28-29th March, 2018, technically sponsored by Computer Society of India(CSI) Kolkata Chapter, Region II”, organized by Department of Computer Science and Electronics, Ramakrishna Mission Vidyamandira, Belur Math, Howrah-711202, West Bengal, India.
2. Special lecture on “Biomedical Images” by Prof. Jens Rittscher, Oxford University and Prof. Uma Pada Pal, ISI, Kolkata, at Department of Computer Science on 01.02.2018.
3. One day workshop on “ICT based E-Secured Application Software”, held on 21<sup>st</sup> April, 2017, organized by the Department of Computer Science, M.U.C. Women's College, Burdwan.
4. RUSA-Funded one-day Platinum Jubilee Commemorative Seminar on “RFID and Library Services: Use & Concern”, organized by the Central Library, Ramakrishna Mission Vidyamandira, Belur Math on March 22, 2017.
5. National-Level Faculty Development Programme on “LaTeX & Python”, jointly organized by Department of Computer Science, M.U.C. Women's College and Spoken Tutorial, I.I.T. Bombay at M.U.C. Women's College on 3<sup>rd</sup> Feb.2017.
6. Two Days Workshop on Computational Methodologies and Applications (CMA-2013), Sponsored by West Bengal State Council of Higher Education. Held at Department of Computer Science & Engineering, University of Kalyani, West Bengal, April 22-23, 2013.
7. One Day Workshop on Computational Methodologies and Applications (CMA-2014), Sponsored by DST PURSE Scheme at University of Kalyani, Technically sponsored by IEEE CIS Kolkata Chapter. Held at Department of computer science & Engineering, University of Kalyani, West Bengal, March 21, 2014.
8. One day Workshop on “HTML 5”, organized by the Department of Computer Science, M.U.C Women's College in collaboration with N.I.I.T., Burdwan on 29.12.2016.
9. One day Workshop on “Interview, CV Writing & Career Promotion Skills”, jointly organized by the Department of Computer Science and Nutrition, M.U.C Women's College on 22.06.2018.

## **Tutorial Attended In International Conference:**

1. International Conference on Recent Trends in Information System (RETIS 2011) BY IEEE, held on 21-23 December 2011, Jadavpur University, Kolkata, India.
2. International Conference on Computer Information Systems Analysis and Technologies (CISIM 2011), BY SPRINGER held on December 14-16, 2011, Department of Computer Science & Engineering, University of Calcutta, West Bengal, India.
3. International Conference on Recent Trends in Information Technology (ICRTIT 2011) BY IEEE held on 3-5 June 2011, Madras Institute of Technology, Anna University, Chennai, Tamil Nadu, India.

## **Membership Information:**

1. Life Member, Computer Society of India (<http://csi-india.org>) [Membership No.: 01510463 ]
2. Member of "The Science and Information Organization" (SAI), Hillside Avenue, New York- 11432, USA.
3. Member, International Association of Engineers (IAENG) (<http://www.iaeng.org>) [Membership No.: 181408]
4. Member, Board of Studies, Ramakrishna Mission Vidyamandira, Belur Math.
5. Registered as Faculty Co-ordinator at Spoken Tutorial Project, IIT Bombay during session 2015 to 2017, representing M.U.C. Women's College, Burdwan.
6. Acted as member of Information and Communication Technologies Committee of M.U.C. Women's College, Burdwan for the academic session 2015-16 and 2016-17.
7. Acted as member of Cultural, Sports, Journal Committee of Ramakrishna Mission Vidyamandira, Belur Math for Session 2016-2017, 2017-18 and 2018-19.

## **Appointed as a Program Committee (PC) member of**

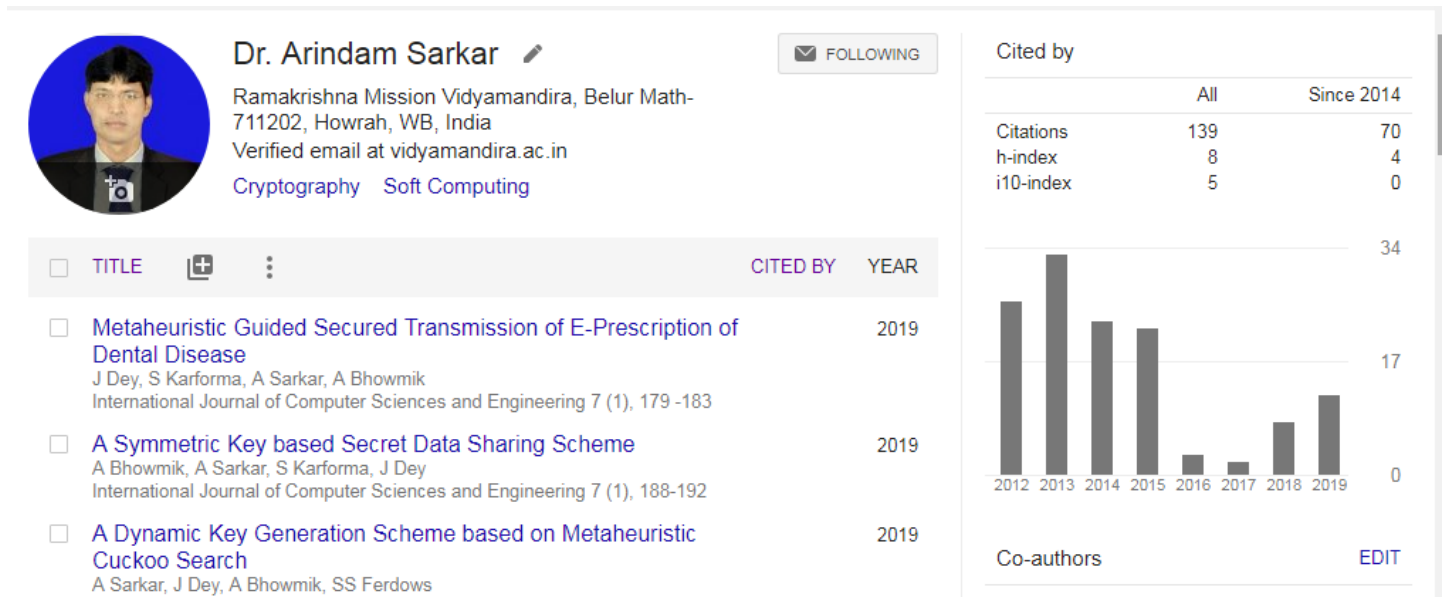
1. First International Conference on Bioinformatics & Biosciences (ICBB 2014), Pune, India
2. Third International Conference on Software Engineering and Applications (SEAS 2014 ), Dubai, UAE
3. First International Conference on Data Mining and Database (DMDB-2014), Pune, India
4. Sixth International Conference on Web services & Semantic Technology (WeST 2014), Chennai, India
5. Fifth International Conference on Internet Engineering & Web services (InWeS - 2014), Delhi, India
6. The Sixth International Conference on Wireless, Mobile Network & Applications (WiMoA 2014), Chennai, India
7. Third International Conference on Signal, Image Processing and Pattern Recognition (SPPR 2014 ), Delhi, India
8. The 7th International Conference on Network Security & Applications (CNSA-2014), Zurich, Switzerland
9. First International Conference on Signal Processing (CSIP-2014), Dubai, UAE
10. Third International workshop on Embedded Systems and Applications (EMSA-2014), Chennai, India
11. Second International Conference on Signal Image Processing and Multimedia (SIPM-2014)" Zurich, Switzerland
12. Second International Conference on Instrumentation and Control Systems (CICS-2014)" Dubai, UAE
13. Editorial board member of AVC journal as well as PCM member of the related conferences of AIRCC world wide
14. Second International Conference of Data Mining & Knowledge Management (CDKP 2013), November 2-3. 2013, Dubai, UAE.
15. The Fourth International Conference on Computer Science and Information Technology (CCSIT 2014), February 21-22, 2014, Sydney, Australia.


## **Appointed as a Reviewer of**

1. Reviewer of International Journal Microsystem Technologies, Springer.
2. International Journal of Networks Security (IJNS), ISSN: ISSN 1816-353X (Print), ISSN 1816-3548 (Online).
3. International Journal on AdHoc Networking Systems (IJANS), ISSN: 2249 - 0175 [Online]; 2249 - 2682 [Print]
4. Second International Conference of Data Mining & Knowledge Management (CDKP 2013), November 2-3. 2013, Dubai, UAE.
5. International Journal of Computer Networks & Communications (IJCNC). ISSN: 0974-9322 (Online), 0975-2293(Print).
6. International Journal on AdHoc Networking Systems (IJANS), ISSN : 2249 - 0175 [Online] ; 2249 - 2682 [Print]
7. Reviewer of "The Science and Information Organization" (SAI), Hillside Avenue, New York- 11432, USA.

**Book Publications, International Journal Publications, International and National Conference Publications and Attend, Tutorial Attend in International Conference, Workshop and FDP Attend**

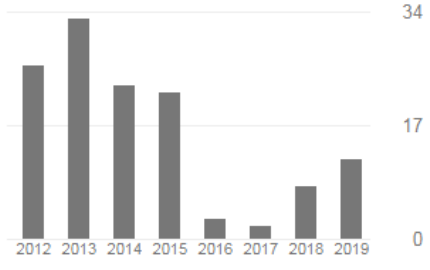
by  
**ARINDAM SARKAR**



Dr. Arindam Sarkar  FOLLOWING

Ramakrishna Mission Vidyamandira, Belur Math-711202, Howrah, WB, India  
Verified email at vidyamandira.ac.in  
Cryptography Soft Computing

	All	Since 2014
Citations	139	70
h-index	8	4
i10-index	5	0



Year	Citations
2012	17
2013	34
2014	17
2015	17
2016	0
2017	0
2018	0
2019	0

TITLE	CITED BY	YEAR
<input type="checkbox"/> <a href="#">Metaheuristic Guided Secured Transmission of E-Prescription of Dental Disease</a>		2019
J Dey, S Karforma, A Sarkar, A Bhowmik International Journal of Computer Sciences and Engineering 7 (1), 179-183		
<input type="checkbox"/> <a href="#">A Symmetric Key based Secret Data Sharing Scheme</a>		2019
A Bhowmik, A Sarkar, S Karforma, J Dey International Journal of Computer Sciences and Engineering 7 (1), 188-192		
<input type="checkbox"/> <a href="#">A Dynamic Key Generation Scheme based on Metaheuristic Cuckoo Search</a>		2019
A Sarkar, J Dey, A Bhowmik, SS Ferdows		

Co-authors EDIT

<https://scholar.google.com/citations?user=SRHCThsAAAAJ&hl=en>

**Book Published by International Publisher (Germany):**

1. Sarkar, A. (2012). *Soft Computing Guided Faster Exponentiation Techniques: A Practical Approach*. LAP LAMBERT Academic Publishing Germany, ISBN-10: 3659306762, ISBN-13: 978-3659306761. Indexed by: Amazon, Slideshare, docstoc, takealot, ebay, zopper, infibeam, bol, bokus, gettextbooks, sears, pricecheck, Google Scholar etc.
2. Sarkar, A., & Mandal, J. K. (2012). *Artificial Neural Network Guided Secured Communication Techniques: A Practical Approach*. LAP LAMBERT Academic Publishing Germany, ISBN-10: 3659119911, ISBN-13: 978-3659119910. Indexed by: Amazon, Slideshare, docstoc, takealot, ebay, zopper, infibeam, bol, bokus, gettextbooks, sears, pricecheck, Google Scholar etc.

**Book Chapter (Thomson Reuters (Book Citation Index – ISI Web of Science) by International Publisher (USA):**

3. Sarkar, A., & Mandal, J. K. (2014). *Particle Swarm Optimization based Session Key Generation for Wireless Communication (PSOSKG)*. In A. Bhattacharyya, S., & B. Dutta, P. (Eds.), *Handbook of Research on Swarm Intelligence in Engineering*, chapter 20, 701 E. Chocolate Ave., Hershey, Pennsylvania (USA): IGI GLOBAL, DOI:10.4018/978-1-4666-8291-7. Indexed by: SCOPUS, Thomson Reuters (Book Citation Index – ISI Web of Science), DBLP Computer Science Bibliography, ERIC - Education Resources Information Center, and ACM Digital Library, CrossRef, Compendex, PsycINFO, INSPEC, Cabell's Directories, Google Scholar etc.

## Publication in SCOPUS and WEB OF SCIENCE Index Journal

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), pp. 169-177, 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), pp. 178-184, 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. Sarkar A. (2019). Multilayer neural network synchronized secured session key based encryption in wireless communication, *IAES International Journal of Artificial Intelligence (IJ-AI)*, Vol -8(1), pp. 44-53, April 2019, ISSN: 2252-8938, **UGC Journal No.** , indexed by **SCOPUS**, **WEB OF SCIENCE**, *Google Scholar*, *Scholar metrics* etc.
7. 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](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-Compindex*, *DBLP*, *Google Scholar* and *Springerlink*
8. Sarkar A., Bhowmik A., Dey J. (2019). Fuzzy based Faster Symmetric Key Encryption for Secured Wireless Communication (FFSKC), *International Journal of Electrical and Computer Engineering (IJECE)*, ISSN: 2088-8708, **UGC Journal No. 2928**, indexed by **SCOPUS**, **WEB OF SCIENCE** etc. [Accepted].
9. 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)*, ISSN: 2252-8938, **UGC Journal No.** , indexed by **SCOPUS**, **WEB OF SCIENCE**, *Google Scholar*, *Scholar metrics* etc. [Accepted].
10. 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)*, ISSN: 2252-8938, **UGC Journal No.** , indexed by **SCOPUS**, **WEB OF SCIENCE**, *Google Scholar*, *Scholar metrics* etc.. [Accepted].
11. Dey J., Sarkar A., Karforma S., Bhowmik A. (2019). Coupled Tree Parity Machines: Synchronized Secured Session Key based Encryption in Online Transaction, *Indonesian Journal of Engineering and Informatics (IJEI)*,ISSN 2089-3272 [Communicated; under review]. **UGC Journal No. 47706**, Indexed by **SCOPUS**, *EBSCO*, *ProQuest*, *Google Scholar*, *Beardslee Library Journals*, *Academic Journals Database*, *OALib*,*openaccessarticles.com*, *Western Theological Seminary*, *University of Saskatchewan*, *Gulf University*, *University of New Brunswick*, *State Library of New South Wales*, *Vrije Universiteit Brussel (VUB)*, *Birmingham Public Library*, *ResearchBib*, *ourGlocal.com*
12. 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-Compindex*, *Mathematical Reviews*, *SCImago*.
13. Sarkar A., Mandal J.K. (2015) Comparative Analysis of Tree Parity Machine and Double Hidden Layer Perceptron Based Session Key Exchange in Wireless Communication. In: Satapathy S., Govardhan A., Raju K., Mandal J. (eds) *Emerging ICT for Bridging the Future - Proceedings of the 49th Annual Convention of the Computer Society of India (CSI) Volume 1. Advances in Intelligent Systems and Computing*, vol 337. Springer, Cham, pp. 53-61, DOI: 10.1007/978-3-319-13728-5\_6, ISBN: 978-3-319-13727-8 [Print], ISBN: 978-3-319-13728-5 [Online], CSI Hyderabad Chapter in Association with JNTU Hyderabad & DRDO, December 12-14 2014, Hyderabad, India: AISC Series Springer. **UGC Journal No. 49365**, Indexed by: **SCOPUS**, *ISI Proceedings*, *DBLP*, *Zentralblatt Math*, *MetaPress*, *Springerlink*, *Google Scholar*, etc.

14. Sarkar A., Mandal J.K., Mondal P. (2015) Neuro-key Generation Based on HEBB Network for Wireless Communication. In: Satapathy S., Biswal B., Udgata S., Mandal J. (eds) Proceedings of the 3rd International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2014. Advances in Intelligent Systems and Computing, vol 328. Springer, Cham, pp. 197-205, DOI: 10.1007/978-3-319-12012-6\_22, ISBN: 978-3-319-12011-9 [Print], ISBN: 978-3-319-12012-6 [Online], Series ISSN: 2194-5357, November 14-15 2014, Bhubaneswar, Orissa, India, Springer International Publishing. **UGC Journal No. 49365**, Indexed by: **SCOPUS**, *ISI Proceedings*, *DBLP*, *Ulrich's*, *EI-Compendex*, *Zentralblatt Math*, *MetaPress*, *Springerlink*, *Google Scholar* etc.
15. Mandal J.K., Datta D., Sarkar A. (2015) Hopfield Network Based Neural Key Generation for Wireless Communication (HNBKNG). In: Satapathy S., Biswal B., Udgata S., Mandal J. (eds) Proceedings of the 3rd International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2014. Advances in Intelligent Systems and Computing, vol 328. Springer, Cham, pp. 217-224, DOI: 10.1007/978-3-319-12012-6\_24, ISBN: 978-3-319-12011-9 [Print], ISBN: 978-3-319-12012-6 [Online], Series ISSN: 2194-5357, November 14-15 2014, Bhubaneswar, Orissa, India, Springer International Publishing. **UGC Journal No. 49365**, Indexed by: **SCOPUS**, *ISI Proceedings*, *DBLP*, *Ulrich's*, *EI-Compendex*, *Zentralblatt Math*, *MetaPress*, *Springerlink*, *Google Scholar* etc.
16. Sengupta M., Mandal J.K., Sarkar A., Bhattacharjee T. (2015) KSOFM Network Based Neural Key Generation for Wireless Communication. In: Satapathy S., Biswal B., Udgata S., Mandal J. (eds) Proceedings of the 3rd International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2014. Advances in Intelligent Systems and Computing, vol 328. Springer, Cham, pp. 207-215, DOI: 10.1007/978-3-319-12012-6\_23, ISBN: 978-3-319-12011-9 [Print], ISBN: 978-3-319-12012-6 [Online], Series ISSN: 2194-5357, **UGC Journal No. 49365**, Indexed by: **SCOPUS**, *ISI Proceedings*, *DBLP*, *Ulrich's*, *EI-Compendex*, *Zentralblatt Math*, *MetaPress*, *Springerlink*, *Google Scholar* etc.
17. Sarkar A., Mandal J.K. (2014) Complete Binary Tree Architecture Based Triple Layer Perceptron Synchronized Group Session Key Exchange and Authentication in Wireless Communication (CBTLP). In: Satapathy S., Avadhani P., Udgata S., Lakshminarayana S. (eds) ICT and Critical Infrastructure: Proceedings of the 48th Annual Convention of Computer Society of India- Vol II. Advances in Intelligent Systems and Computing, vol 249. Springer, Cham, pp. 609-615, DOI: 10.1007/978-3-319-03095-1\_66, ISBN: 978-3-319-03094-4 [Print], ISBN: 978-3-319-03095-1 [Online], Series ISSN: 2194-5357, **UGC Journal No. 49365**, Indexed by: **SCOPUS**, *DBLP*, *INSPEC*, *Google Scholar*, *ACM*, *Digital Library*, *Gale*, *SCImago* etc.
18. Sarkar, A., & Mandal, J. K. (2014). Cryptanalysis of Key Exchange method in Wireless Communication (CKE). *International Journal of Network Security (IJNS)*, 17(4), 484-493, ISSN 1816 – 3548 [Online]; 1816 – 353X [Print], **2012 Impact Factor: 1.3921**. **UGC Journal No. 23213**, Indexed by: **SCImago**, **SCOPUS**, *DBLP*, *SciVerse*, *Engineering Village*, *Ei Compendex*, *Summon by Serial Solutions*, *EBSCO*, *DOAJ*, *Google Scholar* etc.
19. Sarkar, A., & Mandal, J. K. (2013). Computational Intelligence based Triple Layer Perceptron Model Coordinated PSO guided Metamorphosed based Application in Cryptographic Technique for Secured Communication (TLPPSO). In *Proceedings of the First International Conference on Computational Intelligence: Modeling, Techniques and Applications (CIMTA-2013)*, Vol.10, pp. 433-442, DOI: 10.1016/j.protcy.2013.12.380, ISSN: 2212-0173, September 27-28 2013, Department of Computer Science & Engineering, University of Kalyani, Kalyani, India, Procedia Technology, Elsevier. Indexed by: **SCOPUS**, *INSPEC*, *Google Scholar*, *Gale*, *SCImago*, *ACM*, *Digital Library* etc.
20. Mandal, J. K., Chowdhuri, A., & Sarkar, A. (2013). Time Efficient Optimal Tuning through various Learning Rules in Unify Computing (TEOTLRUC). In *Proceedings of the First International Conference on Computational Intelligence: Modeling, Techniques and Applications (CIMTA-2013)*, Vol.10, pp. 474-481, DOI: 10.1016/j.protcy.2013.12.385, ISSN: 2212-0173, September 27-28 2013, Department of Computer Science & Engineering, University of Kalyani, Kalyani, India, Procedia Technology, Elsevier. Indexed by: **SCOPUS**, *INSPEC*, *Google Scholar*, *Gale*, *SCImago*, *ACM*, *Digital Library* etc.
21. Sarkar, A., & Mandal, J. K. (2013). Secured Wireless Communication Through Simulated Annealing Guided Triangularized Encryption By Multilayer Perceptron Generated Session Key (SATMLP). In *Proceedings of the Third International Conference on Computer Science & Information Technology (CCSIT 2013)*, Computer Science & Information Technology (CS & IT), Bangalore, February 18-20 2013, pp. 217-224, DOI: 10.5121/csit.2013.3624, 2013, ISBN: 978-1-921987-00-7, India: AIRCC. Indexed by: **SCOPUS**, *DBLP*, *ACM*, *Digital Library*, *INSPE*, *SCImago*, *Google Scholar* etc.



22. Sarkar, A., & Mandal, J. K. (2012). Secured Wireless Communication using Fuzzy Logic based High Speed Public-Key Cryptography (FLHSPKC), *International Journal of Advanced Computer Science and Applications (IJACSA)*, 3(10), 137-145, U.S ISSN : 2156-5570 [Online], U.S ISSN : 2158-107X(Print), **2014 Impact Factor : 1.505**. Indexed by: **Thomson Reuters(Science Citation Index Expanded - Web of Science)**, DOAJ, Index Copernicus (IC), Google Scholar, Microsoft Academic Search, GetCITED, CiteSeerx, SCIRUS, EBSCOhost, WorldCat, BASE, Ulrichsweb™, Open J-Gate, Cabell's Directory, University Citations: Harvard Library, The University of Melbourne, University of Liverpool, Cornell University, Hochschule RheinMain University of Applied Sciences Wiesbaden Rüsselsheim Geisenheim, Technische Universität Berlin, Universität Hamburg, Queen's University, Technische Universität Darmstadt, Unikassel Versitat, Philipps Universität Marburg, Akademie der Wissenschaften und der Literatur Mainz, Universität Frankfurt Am Main, Biblioteca, Universität Regensburg, Staats- und Universitätsbibliothek Bremen, Technische Hochschule Mittelhessen, etc.
23. Mandal, J. K., & Sarkar, A. (2011). An Adaptive Genetic Key Based Neural Encryption For Online Wireless Communication (AGKNE). In *Proceedings of the IEEE International Conference on Recent Trends In Information System (RETIS 2011)*, Jadavpur University, December 21-23 2011, pp. 62-67, ISBN 978-1-4577-0791-9. Kolkata, India: IEEE. Indexed by: **SCOPUS**, DBLP, Google Scholar, Digital Library, INSPEC, Gale, SCImago etc.
24. Mandal, J. K., & Sarkar, A. (2011). An Adaptive Neural Network Guided Secret Key based Encryption through Recursive Positional Modulo-2 Substitution for Online Wireless Communication (ANNRPMS). In *Proceedings of the IEEE International Conference on Recent Trends In Information Technology (ICRTIT 2011)*, Madras Institute of Technology, Anna University, Chennai, June 3-5 2011, pp.107-112, ISBN 978-1-4577-0590-8/11, Tamil Nadu, India: IEEE. Indexed by: **SCOPUS**, DBLP, INSPEC, Digital Library, Google Scholar, SCImago etc.
25. Mandal, J. K., & Sarkar, A. (2011). An Adaptive Neural Network Guided Random Block Length Based Cryptosystem (ANNRBLC). In *Proceedings of the IEEE International Conference on 2<sup>nd</sup> International Conference on Wireless Communications, Vehicular Technology, Information Theory And Aerospace & Electronic System Technology (WIRELESS VITAE 2011)*, Special Session: Security Protection Mechanism in Wireless Sensor Networks, Chennai, February 28-March 03 2011, pp. 1-5, ISBN 978-87-92329-61-5, Tamil Nadu, India: IEEE. Indexed by: **SCOPUS**, DBLP, Google Scholar INSPEC, ACM, Digital Library, Gale, SCImago etc.

#### **Publication in International Peer Reviewed Journal:**

26. 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*
27. 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*
28. 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*
29. Sarkar, A. (2018). Genetic Key Guided Neural Deep Learning based Encryption for Online Wireless Communication (GKNDLE), *International Journal of Applied Engineering Research*, Volume 13, Number 6 (2018) pp. 3631-3637, ISSN 0973-4562, **UGC Journal No. 64529**
30. Sarkar, A., & Mandal, J. K. (2014). Computational Science guided Soft Computing based Cryptographic Technique using Ant Colony Intelligence for Wireless Communication (ACICT). *International Journal of Computational Science and Applications (IJCSA)*, 4(5), 61-73, DOI: 10.5121/ijcsa.2014.4505, ISSN 2200 –

0011. Indexed by: Ulrichsweb, DOAJ, Scrib, getCITED, Pubget, .docstoc, pub zone, Open J-Gate, CiteSeerx, Google Scholar, cnki.net, etc.

31. Sarkar, A., & Mandal, J. K. (2014). Intelligent Soft Computing based Cryptographic Technique using Chaos Synchronization for Wireless Communication (CSCT). *International Journal of Ambient Systems and Applications (IJASA)*, 2(3), 11-20, DOI: 10.5121/ijasa.2014.2302, ISSN 2320 – 9259 [Online]; 2321 – 6344 [Print]. Indexed by: EBSCO, Google Scholar, pub zone, CSEB, Scribd, Ulrichsweb, getCITED, Pubget, .docstoc, ProQuest, DOAJ, CiteSeerx, cnki.net, etc.
32. Sarkar, A., & Mandal, J. K. (2014). Soft Computing based Cryptographic Technique using Kohonen's Self-Organizing Map Synchronization for Wireless communication (KSOMSCT). *International Journal in Foundations of Computer Science & Technology (IJFCST)*, 4(5), 85-100, DOI: 10.5121/ijfcst.2014.4508, ISSN 1839 – 7662. Indexed by: Ulrichsweb, , Scrib, getCITED, Pubget, ProQuest, .docstoc, pub zone, CiteSeerx, Google Scholar, EBOSCO, cnki.net, WorldCat, CSEB, etc.
33. Sarkar, A., & Mandal, J. K. (2014). Secured Transmission Through Multi Layer Perceptron in Wireless Communication (STMLP). *International Journal of Mobile Network Communications & Telematics (IJMNCT)*, 4(4), 1-16, DOI: 10.5121/ijmnct.2014.4401, ISSN 1839 – 5678. Indexed by: EBSCO, Google Scholar, pub zone, CSEB, Scribd, Ulrichsweb, getCITED, .docstoc, cnki.net, etc.
34. Sarkar, A., & Mandal, J. K. (2014). Cryptanalysis of Key Exchange method using Computational Intelligence guided Multilayer Perceptron in Wireless Communication (CKEMLP). *Advanced Computational Intelligence: An International Journal (ACIJ)*, 1(1), 1-9, ISSN 2317 – 4113. Indexed by: EBSCO, Google Scholar, pub zone, CSEB, Scribd, Ulrichsweb, getCITED, Pubget, .docstoc, ProQuest, etc.
35. Sarkar, A., & Mandal, J. K. (2014). Neuro Genetic Key Based Recursive Modulo-2 Substitution Using Mutated Character for Online Wireless Communication (NGKRMSMC). *International Journal of Computational Science and Information Technology (IJCSITY)*, 1(4), 49-59, DOI: 10.5121/ijcsity.2014.1404, ISSN 2320 - 7442 [Online]; 2320 - 8457 [Print]. Indexed by: EBSCO, Google Scholar, pub zone, CSEB, Scribd, Ulrichsweb, getCITED, Pubget, .docstoc, ProQuest, etc.
36. Sarkar, A., & Mandal, J. K. (2013). Genetic Algorithm Guided Key Generation in Wireless Communication (GAKG). *International Journal on Cybernetics & Informatics (IJCI)*, 2(5), 9-17, DOI: 10.5121/ijci.2013.2502, ISSN 2277 - 548X [Online]; 2320 - 8430 [Print]. Indexed by: Ulrichsweb, DOAJ, Scribd, getCITED, Pubget, .docstoc, pub zone, Open J-Gate, CiteSeerx, Google Scholar, etc.
37. Sarkar, A., & Mandal, J. K. (2013). Computational Intelligence Based Simulated Annealing Guided Key Generation In Wireless Communication (CISAKG). *International Journal on Information Theory (IJIT)*, 2(4), 35-44, DOI: 10.5121/ijit.2014.2403, ISSN 2319 - 7609 [Online]; 2320 - 8465 [Print]. Indexed by: EBSCO, Google Scholar, CSEB, Scribd, DOAJ, getCITED, Pubget, CiteSeerx, .docstoc, pub zone, Ulrichsweb, WorldCat, ProQuest, etc.
38. Sarkar, A., & Mandal, J. K. (2013). Group Session Key exchange Multilayer Perceptron based Simulated Annealing guided Automata and Comparison based Metamorphosed Encryption in Wireless Communication (GSMLPSA). *International Journal of Wireless & Mobile Networks (IJWMN)*, 5(4), 203-222, DOI: 10.5121/ijwmn.2013.5415, ISSN 0975-3834 [Online]; 0975-4679 [Print]. Indexed by: The Elektronische Zeitschriftenbibliothek EZB, Genamics JournalSeek, Inspec, Google Scholar, SCIRUS, EBSCO, DOAJ, Scribd, Ulrichsweb, getCITED, Pubget, CiteSeerx, .docstoc, pub zone, PKP (Public Knowledge Project), WorldCat, ProQuest, NASA, etc.
39. Sarkar, A., & Mandal, J. K. (2013). Key Swap Over among Group of Multilayer Perceptrons for Encryption in Wireless Communication (KSOGMLPE), *International Journal of Information Technology, Control and Automation (IJITCA)*, 3(1), 85-100, DOI:10.5121/ijitca.2013.3107, ISSN 1839 – 6282. Indexed by: Google Scholar, ProQuest, EBSCO, .docstoc, getCITED, pub zone, Scribd, CSEB, Ulrichsweb, Pubget, etc.
40. Sarkar, A., Mandal, J. K., & Patra P. (2013). Double Layer Perceptron Synchronized Computational Intelligence guided Fractal Triangle based Cryptographic Technique for Secured Communication (DLPFT). In *Proceedings of the IEEE 4<sup>th</sup> International Symposium on Electronic System Design (ISED-2013)*, pp. 191-195, ISBN 978-0-7695-5143-2, December 13-15 2013, NTU, Singapore, IEEE. Indexed by: SCOPUS, DBLP, Google Scholar, ACM, Digital Library, Gale, SCImago etc.

41. Sarkar, A., & Mandal, J. K. (2012). Key Generation and Certification using Multilayer Perceptron in Wireless Communication (KGCMLP), *International Journal of Security, Privacy and Trust Management (IJSPTM)*, 1(5), 27-43, DOI: 10.5121/ijspmt.2012.1503, ISSN 2277 - 5498 [Online]; 2319 - 4103 [Print]. *Indexed by: Ulrichsweb, EBSCO, Google Scholar, CSEB, Scribd, DOAJ, etc.*
42. Sarkar, A., & Mandal, J. K. (2012). Evolutionary Computation Guided Energy Efficient Key Organization in Wireless Communication (ECEEKO), *International Journal of Information and Network Security (IJINS)*, 2(1), 352-366, ISSN: 2089-3299. *Indexed by: SCOPUS, BASE (Bielefeld Academic Search Engine), Cabell's Directory, Cite Seerx , Computer Science Directory, DOAJ, EBSCO Publishing, EI, Electronic Journals Library, ELSEVIER, Google Scholar, Index Copernicus, ISSUU, NewJour,| OJS PKP, Open J-Gate, ProQuest, Science Central , Scirus , , Socolar Open Access, Ulrich's Periodicals Directory, World Wide Science , WorldCat, etc.*
43. Sarkar, A., & Mandal, J. K. (2012). Energy Efficient Wireless Communication Using Genetic Algorithm Guided Faster Light Weight Digital Signature Algorithm (GADSA), *International Journal of Advanced Smart Sensor Network Systems (IJASSN)*, 2(3), 9-25, DOI: 10.5121/ijassn.2012.2302, ISSN: 2231 - 4482 [Online]; 2231 - 5225 [Print]. *Indexed by: Google Scholar, getCITED, pub zone, .docstoc, Scribd, CSEB, EBSCO, ProQuest, etc.*
44. Sarkar, A., & Mandal, J. K. (2012). Multilayer Perceptron Guided Key Generation Through Mutation With Recursive Replacement In Wireless Communication (MLPKG), *International Journal on AdHoc Networking Systems (IJANS)*, 2(3), 11-28, DOI: 10.5121/ijans.2012.2302, ISSN: 2249 - 0175 [Online]; 2249 - 2682 [Print]. *Indexed by: Google Scholar, ProQuest, EBSCO, .docstoc, getCITED, pub zone, Scribd, CSEB, etc.*
45. Sarkar, A., & Mandal, J. K. (2012). Swarm Intelligence based Faster Public-Key Cryptography in Wireless Communication (SIFPKC), *International Journal of Computer Science & Engineering Technology (IJCSET)*, 3(7), 267-273, ISSN: 2229-3345. *Indexed by: DOAJ, INDEX COPERNICUS, Google Scholar, Open J-Gate, Cornell University Library, SCIRUS, etc.*
46. Sarkar, A., & Mandal, J. K. (2012). Secured Wireless Communication by High-Speed RSA Using Evolutionary Programming based Optimized Computation (HS-RSA-EP), *International Journal of Advanced Research in Computer Science (IJARCS)*, 3(4), 161-165, ISSN 0976 – 5697. Impact Factor: 5.312 (2014). *Indexed by: EBSCO, Genamics, M Library, TU Berlin, Kun Shan University Library, INDEX COPERNICUS, DOAJ, Electronic Journals Library, New Jour, sciencecentral.com, ulrichsweb, Dayang Journal System, Google Scholar etc.*
47. Sarkar, A., & Mandal, J. K. (2012). Object Oriented Modelling of Idea Using GA Based Efficient Key Generation For E-Governance Security (OOMIG), *International Journal of Distributed and Parallel Systems (IJDPS)*, 3(2), 171-183, DOI: 10.5121/ijdps.2012.3215, ISSN : 0976 - 9757 [Online] ; 2229 - 3957 [Print]. *Indexed by: EBSCO, DOAJ, NASA, Google Scholar, INSPEC and WorldCat, 2011, etc.*

### **Book Chapter Publication:**

48. 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 3<sup>rd</sup> Regional Science & Technology Congress(SR), 2018, Bidhan Nagar College, Salt Lake, pp. 149, Dept. of Science and Technology and Biotechnology, Govt. of West Bengal.
49. 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 3<sup>rd</sup> Regional Science & Technology Congress(SR), 2018, Bidhan Nagar College, Salt Lake, pp. 148, Dept. of Science and Technology and Biotechnology, Govt. of West Bengal.
50. Sarkar A., Dey J., Bhowmik A. (2018). Cryptographic Bit-Clustering Transmission Protocol for Computer Vision Syndrome, In the proceedings of 3<sup>rd</sup> Regional Science & Technology Congress(SR), 2018, Bidhan Nagar College, Salt Lake, pp. 129, Dept. of Science and Technology and Biotechnology, Govt. of West Bengal.
51. 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 3<sup>rd</sup> Regional Science & Technology Congress(SR), 2018, Bidhan Nagar College, Salt Lake, pp. 161, Dept. of Science and Technology and Biotechnology, Govt. of West Bengal.

52. 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 3<sup>rd</sup> Regional Science & Technology Congress(SR), 2018, Bidhan Nagar College, Salt Lake, pp. 133, Dept. of Science and Technology and Biotechnology, Govt. of West Bengal.
53. Datta A., Dey J., Bhowmik A., Sarkar A. (2018). Digital Authentication Based On Homogeneous Blocks Length Fusion , In the proceedings of 3<sup>rd</sup> Regional Science & Technology Congress(SR), 2018, Bidhan Nagar College, Salt Lake, pp. 127, Dept. of Science and Technology and Biotechnology, Govt. of West Bengal.
54. Dey J., Sarkar A., Bhowmik A. (2018). Digital Transmission of Spectral Transmittance 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.
55. Mandal, J. K., Sarkar, A., Bose, A., Halder, S. (2017). Elliptic Curve Cryptosystem (ECC). In *Proceedings of the International Conference on Advances and Technology*, pp. 187-190, ISBN 9781945919473 [Print], March 17-19 2017, MCKV Institute of Engineering, Liluah, Howrah, West Bengal, India.
56. 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 2<sup>nd</sup> Regional Science & Technology Congress(WR), 2017, Burdwan University, pp. 207, Dept. of Science and Technology and Biotechnology, Govt. of West Bengal.
57. Bhowmik A., Dey J., Karforma S., Sarkar A. (2017). Implementation of security of multimedia documents using RSA encryption and watermarking, In the proceedings of 2<sup>nd</sup> Regional Science & Technology Congress(WR), 2017, Burdwan University, pp. 232, Dept. of Science and Technology and Biotechnology, Govt. of West Bengal.
58. Sarkar, A., & Chongder, J. (2016). Cycle Formation and Hopfield Network based Key Tuning and Enciphering. In *Proceedings of the Third International Conference on Computing and Systems (ICCS-2016)*, pp. 114-119, ISBN: 978-93-85777-13-4 [Print], January 21-22 2016, Department of Computer Science, The University of Burdwan, West Bengal, India.
59. Mandal, J. K., Chowdhuri, A., & Sarkar, A. (2013). Encryption Technique based on Neural Session Key (ETNSK). In *Proceedings of the Second International Conference on Computing And Systems, (ICCS 2013)*, Department of Computer Science, The University of Burdwan, September 21-22 2013, pp. 29-33, ISBN 978-9-35-134273-1, Burdwan, India: McGraw Hill Education Private Limited. *Indexed by: DBLP, Google Scholar etc.*
60. Mandal, J. K., & Sarkar, A. (2010). Neural Network Guided Secret Key based Encryption through Cascading Chaining of Recursive Positional Substitution of Prime Non-Prime (NNSKECC). In *Proceedings of the First International Conference on Computing And Systems (ICCS 2010)*, Department of Computer Science, The University of Burdwan, November 19-20 2010, pp. 291-297, ISBN 93-80813-01-5, Burdwan, India. *Indexed by: DBLP, Google Scholar etc.*

#### **Publication in National Conference and Attend:**

61. Sarkar, A. & Mandal, J. K. (2015). Nature Inspired Algorithm based Cryptographic Techniques, *In Proceedings of the National Conference on Computing, Communication and Information Processing, (NCCCIP 2015)*, Department of Computer Science and Engineering, North Eastern Regional Institute of Science and Technology, Nirjuli (Itanagar), Arunachal Pradesh, India, May 2-3 2015, pp. 158-169, DOI: NCCCIP2015/NERIST/02/03-05-2015/CP27, ISBN 978-93-84935-27-6.
62. Mandal, J. K., & Sarkar, A. (2012). Neural Session Key based Traingularized Encryption for Online Wireless Communication (NSKTE), *In Proceedings of the 2<sup>nd</sup> National Conference on Computing and Systems, (NaCCS 2012)*, Department of Computer Science, The University of Burdwan, Burdwan, India, March 15-16 2012, pp. 172-177, ISBN 978-93-808131-8-9. *Indexed by: DBLP, Google Scholar etc.*
63. Mandal, J. K., & Sarkar, A. (2012). Neural Weight Session Key based Encryption for Online Wireless Communication (NWSKE), *In Proceedings of the Research and Higher Education in Computer Science and Information Technology, (RHECSIT- 2012)*, Department of Computer Science, Sammilani Mahavidyalaya, Kolkata, India, February 21-22 2012, pp. 90-95, ISBN 978-81-923820-0-5. *Indexed by: DBLP, Google Scholar etc.*

## Publication in Zonal Seminar and Participation:

64. Sarkar, A. (2013). Parallel Session Key Exchange and Certification by Fine Tuning of Double Layer Perceptron in Wireless communication (PKECDLP), *In Proceedings of the ICT in Present Wireless Revolution: Challenges and Issues*, The Institution of Electronics and Telecommunication Engineers Kolkata Centre, IETE Kolkata Center, Salt Lake, India, August 30-31 2013, pp. 1-9, ISBN 978-93-5126-699-0. *Indexed by: DBLP, Google Scholar etc.*

## International Conference Participation:

1. International Conference on Computer Information Systems Analysis and Technologies (CISIM 2011), by SPRINGER held on December 14-16, 2011, Department of Computer Science & Engineering, University of Calcutta, West Bengal, India.
2. 47<sup>th</sup> Annual National Convention of Computer Society of India & the First International Conference on Intelligence Infrastructure organized by Computer Society of India, Kolkata chapter held on December 1-2, 2012 at Science City, Kolkata, India.

## National Conference Participation:

1. One-day Conference on Advancement in Computation, Communication, and Electronics Paradigm (ACCEP-2019) held on 18<sup>th</sup> January, 2019, organized by Department of Computer Science and Electronics, Ramakrishna Mission Vidyamandira, Belur Math, Howrah-711202, West Bengal, India.
2. National Conference on Computing and Systems (NaCCS 2010) held on January 29, 2010, Department of Computer Science, The University of Burdwan, Golapbag North, Burdwan –713104, West Bengal, India.

## KEY SKILLS

- **Academic:** consistently good academic records.
- **Communications:** Good Communication skills in English, Bengali & Hindi & analytical thinking capability, Comprehensive Problem solving abilities, Willingness to learn.

## PERSONAL DETAILS

- **Father's Name** : Late Mr. Apurba Kumar Sarkar
- **Mother's Name** : Mrs. Kaberi Sarkar
- **Communication Address** : Arovil Pally, Sadhanpur, P.O. + Dist.- Burdwan, Pin: - 713101, Purba Burdwan, West Bengal, India.
- **Date of Birth** : 22.03.1985
- **Marital Status** : Married
- **Sex** : Male
- **Nationality** : Indian

## THESIS & PROJECT

- Ph.D Thesis** : Towards Design and Implementation of Soft Computing based Cryptographic Techniques for Wireless Communication.
- M.Tech (CSE) Thesis** : Towards Design and Implementation of Neural Network Guided Secured Communication techniques.
- M.C.A Project** : Computerization of Material Management System for “INDIAN RAILWAYS” and building a Web Site of Material Management System for Updating and watching the status through web.

## SUBJECT KNOWLEDGE

Computer Fundamentals, Programming Language C, Algorithms and Data Structures, Operating System, Digital Logic, Computer Architecture and Organization, Object Oriented Programming (OOP), Computer Network, Data Communication, and Internet Technology, Software Engineering, Data Base Management Systems (DBMS),

Microprocessor, Neural Network, Networking, Formal Language and Language Translation, Cryptography, AI and Soft Computing, etc.

## EXTRA CURRICULAR ACTIVITIES & HOBBIES

- ▶ As a Scout of “THE BHARAT SCOUTS & GUIDES”, I have prepared myself for service to God, Country and my fellow being that’s why I have been awarded RAJYA PURASKAR.
- ▶ I have attended “3rd SAARC / 13<sup>th</sup> NATIONAL JAMBOREE” held at Khurda, Orissa, India.
- ▶ I have attended “SILVER JUBLIEE DISTRICT RALLY “of EASTERN RAILWAY, HOWRAH DISTRICT.
- ▶ My Hobby is Scouting.

## Cultural Program Participation:

First International Conference on Computational Intelligence: Modeling, Techniques and Applications (CIMTA-2013), Procedia Technology, Elsevier, September 27-28, 2013, Department of Computer Science & Engineering, University of Kalyani, Kalyani, Nadia-741235, West Bengal, India.

## Volunteer Certificate:

1. First International Conference on Computational Intelligence: Modeling, Techniques and Applications (CIMTA-2013), Procedia Technology, Elsevier, September 27-28, 2013, Department of Computer Science & Engineering, University of Kalyani, Kalyani, Nadia-741235, West Bengal, India.
2. 47th Annual National Convention Of Computer Society Of India Organized By : CSI Kolkata Chapter Theme : Intelligent Infrastructure Convention Event: International Conference on Intelligent Infrastructure Date : December 1-2,2012, Science City, Kolkata.
3. Successfully trained students registered under Spoken Tutorial, **I.I.T. Bombay** for paper Advanced C Programming, Java Programming, Python, etc at M.U.C. Women’s College during the academic session 2015-16 and 2016-17.
4. Conducted Quiz Competition at M.U.C Women’s College at College Fest during the academic session 2015-16.
5. Attended Inter-College Quiz Competition at M.U.C Women’s College on 15.08.2018.

## SUMMARY

- ❖ Department of Science & Technology (DST), Govt. of INDIA Ex. INSPIRE Fellow (Senior Research Fellow-Professional) in Computer Science & Engineering.
- ❖ University First Class First Rank Holder in M.Tech (Computer Science & Engineering).
- ❖ University First Class First Rank Holder with Distinction in M.C.A (Master of Computer Application)
- ❖ Publication in SCI indexed International Journal
- ❖ Total number of publications is 64
- ❖ Registered as Faculty Co-ordinator at Spoken Tutorial Project, IIT Bombay during session 2015 to 2017, representing M.U.C. Women’s College, Burdwan.
- ❖ Worked as an Organizer at Spoken Tutorial Project, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt. of India on 08.11.2016 at M.U.C Women’s College.

## DECLARATION

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

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**(DR. ARINDAM SARKAR)**