



PROFESSOR SUNIL KARFORMA

1. **Name and full correspondence address:** Professor (Dr.) Sunil Karforma, Department of Computer Science, The University of Burdwan, West Bengal-713104
2. **Email(s) and contact number(s):** sunilkarforma@yahoo.com, skarforma@cs.buruniv.ac.in, (+91) 7384456418, (+91) 94745-53590
3. **Institution:** The University of Burdwan
4. **Date of Birth:** 07-Nov-1971
5. **Gender (M/F/T):** M
6. **Category Gen/SC/ST/OBC:** Gen
7. **Whether differently abled (Yes/No):** No
8. **Academic Qualification (Undergraduate Onwards)**

	Degree	Year	Subject	University/Institution	% of marks
1.	Ph.D. (A Study on the Application of Cryptography in E- Commerce)	2006	Computer Science	The University of Burdwan	
2.	Masters Of Computer Science and Engineering (1998)	1998	Computer Science and Engineering	Jadavpur University	First Division
3.	Bachelor Of Computer Science And Engineering	1996	Computer Science and Engineering	Jadavpur University	First Division
4.	Higher Secondary	1990	Science	West Bengal Council of Higher Secondary Education (WBCHSE)	First Division

5.	Madhyamik	1988	All Subjects	West Bengal Board of Secondary Education (WBBSE)	First Division
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9. Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award.

Ph.D thesis title : A Study on the Application of Cryptography in E-Commerce

Guide's Name : Prof. Sripati Mukhopadhyay

Institute/Organization/University : The University of Burdwan

Year of Award: 2006

10. Work experience (in chronological order).

S.No.	Positions held	Name of the Institute	From	To	Pay Scale
1.	LECTURER	THE UNIVERSITY OF BURDWAN	2000	2006	8275.00
2.	LECTRER(SR.)	THE UNIVERSITY OF BURDWAN	2006	2009	10275.00
3.	READER	THE UNIVERSITY OF BURDWAN	2009	2012	12325.00
4.	ASSOCIATE PROFESSOR	THE UNIVERSITY OF BURDWAN	2012	2017	(at Rs.9000 AGP in PB Rs.37,400- 67,000)
5.	PROFESSOR	THE UNIVERSITY OF BURDWAN	2017	14.12.2022	(HAG Scale/ PB of Rs.67,000-79,000)
6.	DEAN (FACULTY OF SCIENCE) &PROFESSOR	THE UNIVERSITY OF BURDWAN	15.12.2022	PRESENT	(HAG Scale/ PB of Rs.67,000-79,000)

11. Detail of patents.

S.No	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/Countr y	Status
1.	A system and method for enhancing the quality of service of the internet of medical things	Shrabani Sutradhar, Prof. Sunil Karforma, Dr. Rajesh Bose, Dr. Sandip Roy	2023/08112	27.03.2024	Republic of South Africa	Granted

2.	AN ON-DEMAND WATER RESERVER TRACKING SYSTEM AND A METHOD THEREOF	Prof. Sunil Karforma, Indranil Sarkar, Dr. Rajesh Bose, Dr. Sandip Roy	2022/02101	25.05.2022	South Africa	Granted
3.	Ein System zur Erkennung von krankheiten in Blattern - A system for detecting diseases in leaves	Prof. Sunil Karforma, Indranil Sarkar, Dr. Rajesh Bose, Dr. Sandip Roy, Partha Pratim Dasgupta, Priyanka Bhattacharya, Raktim Kumar Dey	G11831DE	11.11.2022	German	Granted
4.	An indoor localization system using a wireless local area network	Prof. Sunil Karforma, Indranil Sarkar, Dr. Rajesh Bose, Dr. Sandip Roy, Partha Pratim Dasgupta, Subhadip Nandi, Raktim Kumar Dey	G11832DE	09.11.2022	German	Granted
5.	An IoT Based Smart Entrance Systems and Method Thereof	Prof. Sunil Karforma, Dr. Rajesh Bose, Dr. Sandip Roy, Subhadip Nandi, Anchal Kumari, Debasmita Saha, Rintu Roy, Rishi Sinha, Sanjana Gupta, Soham Nag	2022/02225	28.09.2022	South Africa	Granted

12. Books/Reports/Chapters/General articles etc.

S.No	Title	Author's Name	Publisher	Year of Publication
1.	Impact of Generative AI in Education 2030	Subhajit Adhikari, Dulal Kumbhakar, Nabanita Indra, Sunil Karforma	IGI Global	2024
2.	Selective Text Encryption Using RSA for E-governance Applications for Pdf Document	Subhajit Adhikari, Sunil Karforma	Springer Nature Singapore	2023
3.	Telecardiology COVID-19 cryptographic system: Security reinforcement through metaheuristics and artificial neural networks	oydeep Dey, Anirban Bhowmik, Sunil Karforma	Academic Press	2022

4.	Symmetric Key and Artificial Neural Network With Mealy Machine: A Neoteric Model of Cryptosystem for Cloud Security	Anirban Bhowmik, Sunil Karforma, Joydeep Dey	John Wiley & Sons, Inc.	2021
5.	Approximation algorithm and linear congruence: a state-of-art approach in information security issues towards internet of vehicles	Anirban Bhowmik, Sunil Karforma, Joydeep Dey, Arindam Sarkar	Springer International Publishing	2021
6.	Approximation Algorithm and Linear Congruence: An Approach for Optimizing the Security of IoT Based Healthcare Management System	Anirban Bhowmik, Sunil Karforma	John Wiley & Sons, Inc.	2021
7.	Linear Congruence Generator and Chaos Based Encryption Key Generation for Medical Data Security in IoT Based Health Care System	Anirban Bhowmik, Sunil Karforma, Joydeep Dey, Arindam Sarkar	Springer International Publishing	2021
8.	Internet of Things e- health revolution: secured transmission of homeopathic e- medicines through chaotic key formation	Joydeep Dey, Arindam Sarkar, Sunil Karforma	Academic Press	2021
9.	Secured session key- based e-health: Biometric blended with salp swarm protocol in telecare portals	Arindam Sarkar, Joydeep Dey, Sunil Karforma	Springer Singapore	2021
10.	A Novel Approach in Communication Security of Internet-of-Vehicles Using the Concept of Recurrence Relation and Symmetric Key	Anirban Bhowmick, Sunil Karforma, Joydeep Dey, Arindam Sarkar	CRC Press	2020
11.	Fuzzy-based session key as restorative power of symmetric key encryption for secured wireless communication	Anirban Bhowmik, Sunil Karforma, Joydeep Dey, Arindam Sarkar	Springer Singapore	2020

12.	A Secure Data-Hiding Approach Using Particle Swarm Optimization and Pixel Value Difference	Tanmoy Halder, Sunil Karforma, Rupali Halder	IGI Global	2016
13.	Object-oriented Modeling of IDEA for E-learning Security	Ambalika Ghosh, Sunil Karforma	Springer India	2015
14.	Effectiveness of proximity-based outlier analysis in detecting profile-injection attacks in E-Commerce Recommender Systems	Parthasarathi Chakraborty, Sunil Karforma	Springer India	2015
15.	A Study on Multi-agent Systems in Cognitive Radio	Sandeep Sharma, Sunil Karforma, Sripathi Mukhopadhyay	Springer Singapore	2019
16.	Secure e-Learning Framework (SeLF)	Nikhilesh Barik, Sunil Karforma	Springer India	2015
17.	Data modelling of multifaceted electronic card-based secure E-Governance system	Abhishek Roy, Sunil Karforma	IGI Global	2014

13. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received.

S.No	Name of Award	Awarding Agency	Year
1.	Acted as an esteemed guest at the one-day seminar titled “Women in Space Engineering,”	Academy of Technology in association with IEEE Women in Engineering (WIE) Kolkata Section.	2024
2.	Acted as coordinator for RC IN ICT IN TEACHING AND RESEARCH (20.02.2024 to 04.03.2024)	The University of Burdwan	2024
3.	Acted as Guest of Honour ‘International Conference on Global Disease Biology: Perspective Biotechnology’	Department of Biotechnology, The University of Burdwan	2024
4.	Dean, Faculty Council of PG Studies in Science, The University of Burdwan	The University of Burdwan	2023
5.	Acted as coordinator for REFRESHER COURSE IN RESEARCH METHODS AND ONLINE PEDAGOGY 31.01.2023 TO 13.02.2023)	The University of Burdwan	2023
6.	UGC Project Evaluator	UGC	2022

7.	Member of the Selection Committee of the West Bengal College Service Commission	West Bengal Govt.	2019 and 2022
8.	Acted as subject expert on the selection committee for the purpose of career of the Govt. Gen. Degree College, Singur	The University of Burdwan	2022
9.	Acted as subject expert on the selection committee for the purpose of career of the teachers of the Netaji Mahavidyalaya	The University of Burdwan	2021
10.	Acted as resource person in International webinar on Artificial Intelligence and Data Science,	Asutosh College, Kolkata	2021
11.	Acted as a resource person in IQAC-Sponsored Sponsored Two-Day National Webinar on “Mathematics for Computing: Recent Trends”.	Bankura University	2021
7.	Acted as Chairperson in Two Days International Conference on	Department of Computer Science & Engineering,	2022
12	Machine Intelligence & Network Data Security-2022	NSHM Institute of Engineering & Technology, Durgapur	
13.	Acted as Chairperson in 1st International Conference on Innovations and Computer Science	The University of Burdwan	2018
14.	Acted as Organizing Secretary in 3rd International Conference on Computing and Systems 2016, Department of Computer Science	The University of Burdwan	2016
15.	Acted as Joint Secretary at Second International Conference on Computing & Systems	The University of Burdwan	2013
16.	Acted as Chair Person at Second National Conference on Computing & Systems	The University of Burdwan	2012
12.	Acted as Chair Person at International Conference on Computing & Systems	The University of Burdwan	2010
13.	Acted as Organizing Secretary at National Conference on Computing & Systems	The University of Burdwan	2010

14. Publications (List of papers published in SCI, Scopus, WoS, UGC Care, etc. Journals.

S.No	Author(s)	Title	Name of Journal	Volume	Page	Publisher	Year
1.	Subhajit Adhikari, Anirban Panja, Sunil Karforma	ICSPRNG: Ikeda assisted Cryptographically Secure Pseudo Random Number Generator	Multimedia Tools and Applications		1-19	Springer US	2024
2.	Subhadip Nandi, Sunil Karforma, Rajesh Bose, Sandip Roy	21 IoT-based Smart Door System for Contactless Face Mask and Body Temperature Monitoring in Public Spaces: A Secure Framework for Enhanced Health Safety	Proceedings of the International Conference on Security, Surveillance and Artificial Intelligence (ICSSAI-2023)		205	CRC Press	2024
3.	Dulal Kumbhakar, Subhajit Adhikari, Sunil Karforma	CTEA: Chaos based tiny encryption algorithm using ECDH and TinkerBell map for data security in supply chain management	Multimedia Tools and Applications		1-24	Springer US	2024
4.	Shrabani Sutradhar, Sunil Karforma, Rajesh Bose, Sandip Roy, Sonia Djebali, Debnath Bhattacharyya	Enhancing identity and access management using Hyperledger Fabric and OAuth 2.0: A block-chain-based approach for security and scalability for healthcare industry	Internet of Things and Cyber-Physical Systems	4	49-67	Elsevier	2024
5.	Simanta Hazra, Sunil Karforma, Abhishek Bandyopadhyay, Avishek Banerjee, Debasis Chakraborty	Deep Learning-Based Classification Of Rice Varieties: A Comprehensive Study	Journal of Survey in Fisheries Sciences	10	411-419	Journal of Survey in Fisheries Sciences	2023
6.	Simanta Hazra, Sunil Karforma, Abhishek Bandyopadhyay, Sayantani Chakraborty, Debasis Chakraborty	Machine Learning Techniques for Crop Yield Prediction	Journal of Survey in Fisheries Sciences	10	7096-7102	Journal of Survey in Fisheries Sciences	2023
7.	Shrabani Sutradhar, Sunil Karforma, Rajesh Bose, Sandip Roy	A Dynamic Step-wise Tiny Encryption Algorithm with Fruit Fly Optimization for Quality of Service improvement in healthcare	Healthcare Analytics	3	100177	Elsevier	2023

8.	Dulal Kumbhakar, Kanchan Sanyal, Sunil Karforma	An optimal and efficient data security technique through crypto-stegano for E-commerce	Multimedia Tools and Applications		1-14	Springer US	2023
9.	Indranil Sarkar, Sunil Karforma, Priyanka Bhattacharya, Rajesh Bose, Sandip Roy	Agronomy with IoT Devices: The Smart Solution for Detection of Diseases of Betel Leaves	Universal Journal of Agricultural Research	11(1)	98-109	Universal Journal of Agricultural Research	2023
10.	Simanta Hazra, Sunil Karforma, Abhishek Bandyopadhyay, Sayantani Chakraborty, Debasis Chakraborty	Prediction of Crop Yield Using Machine Learning Approaches for Agricultural Data	Computer Engineering and Intelligent Systems			Computer Engineering and Intelligent Systems	2023
11.	Shrabani Sutradhar, Sunil Karforma, Rajesh Bose, Sandip Roy, Sonia Djebali, Debnath Bhattacharyya	Enhancing identity and access management using Hyperledger Fabric and OAuth 2.0: A block-chain-based approach for security and scalability for healthcare industry	Internet of Things and Cyber-Physical Systems			Elsevier	2023
12.	Subhajit Adhikari, Sunil Karforma	Medical Image Encryption Method Using Cubic-Sin-Logistic-Tent Chaotic Pseudo-Random Number Sequence-Based Substitution	SN Computer Science	4	338	Springer Nature Singapore	2023
13.	Joydeep Dey, Salim Ahmad, Sunil Karforma	Establishment of Neural Series Transmission Keys (NSTKs) and Security in the Field of COVID-19 Telepediatric Oral Health	Wireless Personal Communications	129	2455-2480	Springer US	2023
14.	Subhajit Adhikari, Sunil Karforma	An Efficient Image Encryption Method Using Henon-Logistic-Tent Chaotic Pseudo Random Number Sequence	Wireless Personal Communications	129	2843-2859	Springer US	2023
15.	Soumen Mondal, Anirban Panja, Sunil Karforma	AN EFFICIENT E-CERTIFICATE MANAGEMENT SYSTEM IN E-LEARNING USING BLOCKCHAIN	SCIENCE AND CULTURE			SCIENCE AND CULTURE	2023
16.	Saranagata Kundu, Anirban Panja, Sunil Karforma	DETECTION OF MELANOMA SKIN CANCER USING HYBRID MACHINE LEARNING TECHNIQUES	SCIENCE AND CULTURE			SCIENCE AND CULTURE	2023

17.	Joydeep Dey, Anirban Bhowmik, Sk Samim Ferdows, Bappaditya Chowdhury, Sunil Karforma	Heterogeneous cardiological data communication in telecardiology with music-key generation scheme	Accelerating Strategic Changes for Digital Transformation in the Healthcare Industry		293-305	Academic Press	2023
18.	Anirban Bhowmik, Sunil Karforma	Hybrid intelligence-based cryptosystem: security and privacy enhancement in telemedicine system	Computational Intelligence for Medical Internet of Things (MIoT) Applications		315-342	Academic Press	2023
19.	Ajit Kumar Singh, Moumita Kumar Roy, Sunil Karforma, Sripati Mukhopadhyay	IMPLEMENTATION OF E-BANKING TRANSACTION SYSTEM USING ELGAMAL DS	Journal of Data Acquisition and Processing	38	1883	Journal of Data Acquisition and Processing	2023
20.	Anirban Bhowmik, Sunil Karforma	Isomorphic encryption and coupled ANN with Mealy machine: a cutting edge data security model for cloud computing environment	Knowledge and Information Systems	65	133-162	Springer London	2023
21.	Joydeep Dey, Anirban Bhowmik, Arindam Sarkar, Sunil Karforma, Bappaditya Chowdhury	Cryptographic engineering on COVID-19 telemedicine: an intelligent transmission through recurrent relation based session key	Wireless Personal Communications	122	3167-3204	Springer US	2022
22.	Subhajit Adhikari, Sunil Karforma	A novel image encryption method for e-governance application using elliptic curve pseudo random number and chaotic random number sequence	Multimedia Tools and Applications	81	759-784	Springer US	2022
23.	Anirban Bhowmik, Sunil Karforma	Linear feedback shift register and integer theory: a state-of-art approach in security issues over e-commerce	Electronic Commerce Research	22	1-21	Springer US	2022

24.	Joydeep Dey, Anirban Bhowmik, Sunil Karforma	Neural perceptron & strict lossless secret sharing oriented cryptographic science: fostering patients' security in the "new normal" COVID-19 E- Health	Multimedia Tools and Applications	81	17747- 17778	Springer US	2022
25.	Indranil Sarkar, Sunil Karforma, Rajesh Bose, Sandip Roy	Ubiquitous on-demand Water Reservoir Tracking System for Smart Village	Univ. J. Agric. Res.	10	193-203	Univ. J. Agric. Res.	2022
26.	Anirban Bhowmik, Sunil Karforma	An Approach of Secret Sharing Technique Based on Convolution Neural Network and DNA Sequence for Data Security in Wireless Communication	Wireless Personal Communicatio ns	124	3413-3444	Springer US	2022
27.	Joydeep Dey, Anirban Bhowmik, Sunil Karforma	Telecardiology COVID- 19 cryptographic system: Security reinforcement through metaheuristics and artificial neural networks	Digital Innovation for Healthcare in COVID-19 Pandemic		351-389	Academic Press	2022
28.	Joydeep Dey, Sunil Karforma, Bappaditya Chowdhury	Episode of Dual Neural Genetic Firefly (DNGF) Transmission Key Generation in New Normal Mode of COVID-19 Second Wave Telepsychiatry	Journal of The Institution of Engineers (India): Series B	103	1127-1146	Springer India	2022
29.	Joydeep Dey, Sunil Karforma	Unsynchronized Ann & Genetics Guided Telecardiology Security Reinforcement in the Light of Covid-19	Journal of Mathematical Sciences & Computational Mathematics	5	142-155	Society for Makers, Artists, Researchers and Technologists	2022
30.	Anirban Panja, Soumen Mondal, Kh Amirul Islam, Taposh Kumar Ghosh, Sunil Karforma	An Efficient And Secure Fingerprint Based Authentication Scheme Using Elliptic Curve Cryptography	Webology	19		Webology	2022
31.	Ambalika Ghosh, Sunil Karforma	Object Oriented Analysis And Design Of El Gamal Digital Signature Algorithm For Document Authentication In E- Learning	Webology	19		Webology	2022
32.	P.K. Samanta, K.A. Islm, A. Panja, S. Mondal, S. Karforma	AN IMPROVED AUTHENTICATION SCHEME FOR E- LEARNING DOCUMENTS USING	Vidyabharati International Interdisciplinar y Research Journal			Vidyabharati International Interdisciplinar y Research Journal	2022

		ELLIPTIC CURVE DIGITAL SIGNATURE ALGORITHM					
33.	Pradip K. Samanta , Anirban Panja, Soumen Mondal, Dr. Sunil Karforma	An Efficient and Fast Authentication Technique for E-Education with Special Reference to Rural Areas	INTERNATIONAL JOURNAL OF SPECIAL EDUCATION	37		INTERNATIONAL JOURNAL OF SPECIAL EDUCATION	2022
34.	PK Samanta, S Karforma, A Bhowmik	ECC WITH SOFT COMPUTING: DESIGN OF A CRYPTOSYSTEM FOR DATA SECURITY IN E-LEARNING SYSTEM	Vidyabharati International Interdisciplinary Research Journal	13		Vidyabharati International Interdisciplinary Research Journal	2022
35.	Subhajit Adhikari, Sunil Karforma	A novel audio encryption method using Henon–Tent chaotic pseudo random number sequence	International Journal of Information Technology	13	1463-1471	Springer Singapore	2021
36.	Joydeep Dey, Arindam Sarkar, Sunil Karforma	Newer post-COVID perspective: Teledental encryption by de-multiplexed perceptrons	International Journal of Information Technology	13	593-601	Springer Singapore	2021
37.	Arindam Sarkar, Joydeep Dey, Sunil Karforma	Musically modified substitution-box for clinical signals ciphering in wireless telecare medical communicating systems	Wireless Personal Communications	117	727-745	Springer US	2021
38.	Anirban Bhowmik, Sunil Karforma, Joydeep Dey, Arindam Sarkar	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		149-172	Springer International Publishing	2021
39.	Tanmoy Halder, Debasish Chakraborty, Ramen Pal, Sunita Sarkar, Somnath Mukhopadhyay, Nishtha Roy, Sunil Karforma	A hybrid approach for water body identification from satellite images using NDWI mapping and histogram of gradients	Innovations in Systems and Software Engineering		1-10	Springer London	2021
40.	Joydeep Dey, Bappaditya Chowdhury, Arindam Sarkar, Sunil Karforma	Secured Telepsychiatry for Geriatric Patients (TGP) in the Face of COVID-19 2nd Wave	Journal of Mathematical Sciences & Computational Mathematics	2	564-571	Society for Makers, Artists, Researchers and Technologists	2021
41.	Joydeep Dey, Bappaditya Chowdhury, Arindam Sarkar, Sunil Karforma	Patients' Data Security in Telemedicine Consultation in a "New Normal" Post COVID-19 Perspective	Journal of Mathematical Sciences & Computational Mathematics	2	422-425	Society for Makers, Artists, Researchers and Technologists	2021

42.	Anirban Bhowmik, Sunil Karforma, Joydeep Dey	Recurrence relation and DNA sequence: A state-of-art technique for secret sharing	International Journal of Reconfigurable and Embedded Systems (IJRES)	10	65-76	International Journal of Reconfigurable and Embedded Systems (IJRES)	2021
43.	Joydeep Dey, Arindam Sarkar, Bappaditya Chowdhury, Sunil Karforma	Episode of COVID-19 telepsychiatry session key origination upon swarm-based metaheuristic and neural perceptron blend	SN Computer Science	2	1-16	Springer Singapore	2021
44.	Joydeep Dey, Arindam Sarkar, Sunil Karforma, Bappaditya Chowdhury	Metaheuristic secured transmission in Telecare Medical Information System (TMIS) in the face of post-COVID-19	Journal of Ambient Intelligence and Humanized Computing		1-22	Springer Berlin Heidelberg	2021
45.	Siddhartha Sen, Sripati Mukhopadhyay, Sunil Karforma	A Blockchain based Framework for Property Registration System in E-Governance.	International Journal of Information Engineering & Electronic Business	13		International Journal of Information Engineering & Electronic Business	2021
46.	Anirban Bhowmik, Joydeep Dey, SUNIL KARFORMA	A novel double tier cryptographic system (nDTCS) to reinforce patients' privacy in contemporary COVID-19 telemedicine					2021
47.	Dulal Kumbhakar, Kanchan Sanyal, Sunil Karforma	A secure and efficient authentication in E-commerce	Biosc Biotech Res Comm	14	93-99	Biosc Biotech Res Comm	2021
48.	Joydeep Dey, Arindam Sarkar, Sunil Karforma	Internet of Things e-health revolution: secured transmission of homeopathic e-medicines through chaotic key formation	Recent Trends in Computational Intelligence Enabled Research		317-337	Academic Press	2021
49.	Anirban Bhowmik, Sunil Karforma	Approximation Algorithm and Linear Congruence: An Approach for Optimizing the Security of IoT- Based Healthcare Management System	Security Issues and Privacy Concerns in Industry 4.0 Applications		55-88	John Wiley & Sons, Inc.	2021
50.	Anirban Bhowmik, Sunil Karforma, Joydeep Dey	Symmetric Key and Artificial Neural Network With Mealy Machine: A Neoteric Model of Cryptosystem for Cloud Security	Machine Learning Techniques and Analytics for Cloud Security		81-101	John Wiley & Sons, Inc.	2021
51.	Pradip Kumar Samanta, Dulal	Evolution of E-Education	Design Engineering		14129-14142	Design Engineering	2021

	Kumbhakar, Annesa Samanta, Sunil Karforma	System Using ICT Infrastructure					
52.	Ambalika Ghosh, Dulal Kumbhakar, Sunil Karforma	An Efficient and Fast Security Technique for Online Services and Applications	Design Engineering		10494-10500	Design Engineering	2021
53.	Anirban Bhowmik, Sunil Karforma, Joydeep Dey, Arindam Sarkar	Linear Congruence Generator and Chaos Based Encryption Key Generation for Medical Data Security in IoT Based Health Care System	Advanced Soft Computing Techniques in Data Science, IoT and Cloud Computing		53-79	Springer International Publishing	2021
54.	Joydeep Dey, Arindam Sarkar, Sunil Karforma	ICT-Guided Glycemic Information Sharing Through Artificial Neural Telecare Network	SN Computer Science	2	426	Springer Singapore	2021
55.	Pradip Kumar Samanta, Dulal Kumbhakar, Sunil Karforma	Tools and Techniques of e-Education using ICT.	Turkish Online Journal of Qualitative Inquiry	12		Turkish Online Journal of Qualitative Inquiry	2021
56.	Joydeep Dey, Soumi Mukherjee, Arindam Sarkar, Sunil Karforma	Post Covid-19 Bio-Imaging: Cancer Detection & Secured Procurement through Dual Neurons Genetic Key (DNGK) in Advanced Medical Sciences	Journal of Mathematical Sciences & Computational Mathematics	2	478-492	Society for Makers, Artists, Researchers and Technologists	2021
57.	Ambalika Ghosh, Subhajit Adhikari, Sunil Karforma	A FAST AND EFFICIENT DOCUMENT ENCRYPTION METHOD FOR E-LEARNING APPLICATIONS USING MODIFIED AES-CBC WITH CHAOTIC LOGISTIC PSEUDO RANDOM NUMBER SEQUENCE	Advances in Mechanics	9	1051-1060	Advances in Mechanics	2021
58.	Sk Shahin Ferdows, Sk Samim Ferdowsy, Sk Wasim Firdaus, Joydeep Dey, Sunil Karforma	CONSUMER BUYING BEHAVIOUR IN BIG-BAZAAR DURGAPUR	Journal of Mathematical Sciences & Computational Mathematics	2	305-316	Society for Makers, Artists, Researchers and Technologists	2021
59.	Arindam Sarkar, Joydeep Dey, Sunil Karforma	Secured session key-based e-health: Biometric blended with salp swarm protocol in telecare portals	Proceedings of the Global AI Congress 2019		713-725	Springer Singapore	2020

60.	Anirban Bhowmik, Sunil Karforma, Joydeep Dey, Arindam Sarkar	Fuzzy-based session key as restorative power of symmetric key encryption for secured wireless communication	Proceedings of the 2nd International Conference on Communication, Devices and Computing: ICCDC 2019		171-183	Springer Singapore	2020
61.	Anirban Bhowmik, Sunil Karforma, Joydeep Dey, Arindam Sarkar	A way of safeguard using concept of recurrence relation and fuzzy logic against security breach in wireless communication	International Journal of Computer Science Engineering	2	297-311	International Journal of Computer Science Engineering	2020
62.	Anirban Bhowmik, Sunil Karforma	A Key Generation technique using concept of Recurrence Relation and Fuzzy logic against Security Breach in Wireless Communication	EasyChair	Issue: 3620		EasyChair	2020
63.	Anirban Bhowmick, Sunil Karforma, Joydeep Dey, Arindam Sarkar	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		123-146	CRC Press	2020
64.	Sunil Karforma, Kanchan Sanyal, Dulal Kumbhakar, Nik Adzrieman B Abd Rahman, Mudassar Abdullah	COMPARATIVE STUDY OF MACHINE LEARNING ALGORITHMS FOR EVALUATING STUDENT ACADEMIC PERFORMANCE	European Journal of Molecular & Clinical Medicine	7	6806-6814	European Journal of Molecular & Clinical Medicine	2020
65.	Sk Samim Ferdows, Joydeep Dey, Akash Nag, Sk Sahin Ferdows, Sunil Karforma	MATHEMATICAL MAT SCORE PREDICTION & POST-MAT ACADEMIC PERFORMANCE ANALYSIS ON MANAGEMENT STUDENTS	Journal of Mathematical Sciences & Computational Mathematics	1	531-542	Society for Makers, Artists, Researchers and Technologists	2020
66.	Dulal Kumbhakar, Sunil Karforma, Debdas Rakshit	SECURITY ISSUES IN SUPPLY CHAIN MANAGEMENT SYSTEM	Advance and Innovative Research	67		Advance and Innovative Research	2020
67.	Arindam Sarkar, Joydeep Dey, Minakshi Chatterjee, Anirban Bhowmik, Sunil Karforma	Neural soft computing based secured transmission of intraoral gingivitis image in e-health care	Indonesian Journal of Electrical Engineering and Computer Science	14	178-184	Indonesian Journal of Electrical Engineering and Computer Science	2019
68.	Anirban Bhowmik, Joydeep Dey,	Computational intelligence based lossless regeneration	IAES International Journal of	8	197	IAES Institute of Advanced Engineering	2019

	Arindam Sarkar, Sunil Karforma	(CILR) of blocked gingivitis intraoral image transportation	Artificial Intelligence			and Science	
69.	Arindam Sarkar, Joydeep Dey, Anirban Bhowmik, Jyotsna Kumar Mandal, Sunil Karforma	Computational intelligence based neural session key generation on e-health system for ischemic heart disease information sharing	Contemporary Advances in Innovative and Applicable Information Technology: Proceedings of ICCAIAIT 2018		23-30	Springer Singapore	2019
70.	Tanmoy Halder, Sunil Karforma, Rupali Mandal	A block-based adaptive data hiding approach using pixel value difference and LSB substitution to secure e- governance documents	Journal of Information Processing Systems	15	261-270	Journal of Information Processing Systems	2019
71.	Joydeep Dey, Anirban Bhowmik, Arindam Sarkar, Sunil Karforma	Privileged authenticity in reconstruction of digital encrypted shares	IAES International Journal of Artificial Intelligence (IJ- AI)	8	175-180	IAES International Journal of Artificial Intelligence (IJ-AI)	2019
72.	Joydeep Dey, Sunil Karforma, Arindam Sarkar, Anirban Bhowmik	Metaheuristic guided secured transmission of E-prescription of dental disease	International Journal of Computer Sciences and Engineering	7	179-183	International Journal of Computer Sciences and Engineering	2019
73.	Anirban Bhowmik, Arindam Sarkar, Sunil Karforma, Joydeep Dey	A symmetric key based secret data sharing scheme	International Journal of Computer Sciences and Engineering	7	188-192	International Journal of Computer Sciences and Engineering	2019
74.	Ajit Kumar Singh, Akash Nag, Sunil Karforma, Sripati Mukhopadhyay	Implementation of Multi- Agent based Digital Rights Management System for Distance Education (DRMSDE) using JADE	International Journal of Advanced Computer Science and Applications	10		Science and Information (SAI) Organization Limited	2019
75.	Arindam Sarkar, Joydeep Dey, Sunil Karforma, Anirban Bhowmik	Notice of retraction coupled tree parity machines: Synchronized secured session key based encryption in online transaction	Aptikom Journal on Computer Science and Information Technologies	4	27-36	Aptikom Journal on Computer Science and Information Technologies	2019
76.	Sandeep Sharma, Sunil Karforma, Sripati Mukhopadhyay	A Study on Multi-agent Systems in Cognitive Radio	First International Conference on Artificial Intelligence and Cognitive Computing: AICC 2018	515- 527		Springer Singapore	2019
77.	Arindam Sarkar,	Coupled tree parity	APTİKOM	4	27-36	APTİKOM	2019

	Joydeep Dey, Sunil Karforma, Anirban Bhowmik	machines: synchronized secured session key based encryption in online transaction	Journal on Computer Science and Information Technologies			Journal on Computer Science and Information Technologies	
78.	Soham Bandyopadhyay, Sunil Karforma	Securing Packet Transmission Through Trusted Shortest Network Path Using Fuzzy Forecasting for Mobility of MANET Nodes	Security, Privacy and Trust in the IoT Environment		255-288	Springer International Publishing	2019
79.	Atanu Sarkar, Sunil Karforma	Image steganography using password based encryption technique to secure e-banking data	International Journal of Applied Engineering Research	13	15477- 15483	International Journal of Applied Engineering Research	2018
80.	Atanu Sarkar, Sunil Karforma	A new pixel selection technique of LSB based steganography for data hiding	International Research Journal of Computer Science (IRJCS)	5	120-125	International Research Journal of Computer Science (IRJCS)	2018
81.	Akash Nag, Sunil Karforma	An Efficient Clustering Algorithm for Spatial Datasets with Noise.	International Journal of Modern Education & Computer Science	10		International Journal of Modern Education & Computer Science	2018
82.	M Das Nath, S Karforma	Object-Oriented Modelling Of Kerberos Based Authentication Process In E-Banking Transaction	International Journal of Computer Sciences and Engineering	6		International Journal of Computer Sciences and Engineering	2018
83.	Atanu Sarkar, Sunil Karforma	A Steganographic Approach Using New Pixel Selection Combined With Hash Function for Secure Data Transmission in e- Banking	International Journal of Computer Sciences and Engineering	6		International Journal of Computer Sciences and Engineering	2018
84.	Soham Bandyopadhyay, Sunil Karforma	Improving the performance of fuzzy minimum spanning tree based routing process through P-node fuzzy multicasting approach in MANET	International Journal of Computer Network and Information Security	10	16-26	International Journal of Computer Network and Information Security	2018
85.	Tanmoy Halder, Kh Amirul Islam, Anup Pasari, Sunil Karforma	A New Information Hiding Approach using Haar-Transformation	2018 5th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer	1-5		IEEE	2018

			Engineering (UPCON)				
86.	Akash Nag, Sunil Karforma	Determining the Secondary Structure of Elapid Toxins using Multi-Layer Perceptrons and Kohonen Networks	International Journal on Future Revolution in Computer Science & Communication Engineering	4		Akash Nag, Sunil Karforma	2018
87.	Akash Nag, Sunil Karforma	Adaptive dictionary-based compression of protein sequences	I.J. Education and Management Engineering	5	1-6	I.J. Education and Management Engineering	2017
88.	SOUMENDU Banerjee, SUNIL Karforma	Object oriented metric based analysis of space efficient LSB based steganography including compression for securing transmission of e-learning documents	International journal of mechanical and production engineering research and development (IJMPERD), ISSN	2249-6890		International journal of mechanical and production engineering research and development (IJMPERD), ISSN	2017
89.	Akash Nag, Sunil Karforma	ProMot: A Tool for the Fast Discovery of Functional Motifs from Aligned Protein Sequences	Indian Journal of Science and Technology	10	25	Indian Journal of Science and Technology	2017
90.	Soumendu Banerjee, Sunil Karforma	OBJECT ORIENTED MODELING FOR AUTHENTICATION OF CERTIFICATE IN E-LEARNING USING DIGITAL WATERMARKING.	International Journal of Advanced Research in Computer Science	8		International Journal of Advanced Research in Computer Science	2017
91.	Soumendu Banerjee, Kh Amirul Islam, Sunil Karforma, Akash Nag	OBJECT ORIENTED METRIC BASED ANALYSIS OF TEXT TRANSMISSION IN E-LEARNING THROUGH NATURAL LANGUAGE STEGANOGRAPHY	International Journal of Engineering Technologies and Management Research	4		Soumendu Banerjee, Kh Amirul Islam, Sunil Karforma, Akash Nag	2017
92.	Soumendu Banerjee, Sunil Karforma, Akash Nag	Applying LSB Steganography for Disseminating Academic Testimonials in eLearning and its Authentication aspects	International Journal of Computer Trends and Technology (IJCTT)	47		International Journal of Computer Trends and Technology (IJCTT) –	2017
93.	Kh Amirul Islam, Soumendu Banerjee, Sunil Karforma, Akash Nag	Securing Text Transmission in E-learning through Natural Language Steganography: An Object Oriented	International Journal on Future Revolution in Computer Science &	17	234-237	International Journal on Future Revolution in Computer Science &	

		Approach	Communicatio n Engineering			Communicatio n Engineering	
94.	Sandeep Sharma, Sripati Mukhopadhyay, Sunil KarformaZ	Cognitive Radio, the Future of Wireless Communication: An Overview	International Journal of Information Science and Computing	3	81-90	Renu Publishers	2016
95.	Soumendu Banerjee, Sunil Karforma	Object Oriented Metrics Based Analysis of DSA algorithm for authentication of Study material in E-learning	International Journal of Information Science and Computing	3	1-7	Renu Publishers	2016
96.	Akash Nag, Sunil Karforma	Classifying Snake Toxins Using Decision Trees	Computer Science	5		Computer Science	2016
97.	SOUMENDU Banerjee, SUNIL Karforma	Object Oriented Analysis and Design of Digital Certificate based Mark-sheet Authentication in E-learning	Journal of Ultra scientist of Physical Sciences	28	158-162	Journal of Ultra scientist of Physical Sciences	2016
98.	Akash Nag, Sunil Karforma	Snake Toxin Classification using Neural Networks	International Journal of Computer Trends and Technology	40	78-83	International Journal of Computer Trends and Technology	2016
99.	Akash Nag, Sunil Karforma	A Heuristic Approach to High-Speed Multiple Sequence Alignment for Phylogenetic Tree Construction	IPASJ International Journal of Computer Science	4	10-15	IPASJ International Journal of Computer Science	2016
100.	Soumendu Banerjee, Sunil Karforma	Authentication of Certificate in E-Learning Using Secret Key Digital Watermarking	International Journal of Information Science and Computing	3	53-58	International Journal of Information Science and Computing	2016
101.	Parthasarathi Chakraborty, Sunil Karforma	Application of Trust and Distrust in Recommender System: A Study	International Journal of Computer Applications	139		Foundation of Computer Science	2016
102.	Tanmoy Halder, Sunil Karforma, Rupali Mandal	A novel data hiding approach by pixel-value-difference steganography and optimal adjustment to secure e-governance documents	Indian Journal of Science and Technology	8	1-7	Indian Journal of Science and Technology	2015
103.	Akash Nag, Sunil Karforma	DSA security enhancement through efficient nonce generation	arXiv preprint arXiv:1508.06370			arXiv preprint arXiv:1508.06370	2015
104.	Akash Nag, Sunil Karforma	A Space-Efficient Approach towards Distantly Homologous Protein Similarity Searches	arXiv preprint arXiv:1508.06561			arXiv preprint arXiv:1508.06561	2015
105.	Ambalika Ghosh, Sunil Karforma	Object-oriented Modeling of IDEA for E-	Intelligent Computing and	105-113		Springer India	2015

		learning Security	Applications: Proceedings of the International Conference on ICA, 22-24 December 2014				
106.	Soumendu Banerjee, Sunil Karforma	OBJECT ORIENTED METRIC BASED ANALYSIS OF ELGAMAL DIGITAL SIGNATURE ALGORITHM FOR STUDY MATERIAL AUTHENTICATION	IJSTM	8		IJSTM	2015
107.	Parthasarathi Chakraborty, Sunil Karforma	Effectiveness of proximity-based outlier analysis in detecting profile-injection attacks in E-Commerce Recommender Systems	Information Systems Design and Intelligent Applications: Proceedings of Second International Conference INDIA 2015	2	255-263	Springer India	2015
108.	Akash Nag, Sunil Karforma	A Randomized Algorithm for Fast Sequence Alignment	Proceedings of the ICSTM		1968-1972	Proceedings of the ICSTM	2015
109.	Akash Nag, Sunil Karforma	Identifying neurotoxins in snake venoms through automated generation of probabilistic consensus motifs	Proceedings of SUSTECH		716-722	Proceedings of SUSTECH	2015
110.	Nikhilesh Barik, Sunil Karforma	Secure e-Learning Framework (SeLF)	Information Systems Design and Intelligent Applications: Proceedings of Second International Conference INDIA 2015, Volume 2	2	691-698	Springer India	2015
111.	Abhishek Roy, Sunil Karforma	International Journal of Advanced Research in Computer Science and Software Engineering	, International Journal of Advanced Research in Computer Science and Software Engineering 4(4)	4	65-659	International Journal of Advanced Research in Computer Science and Software Engineering 4(4)	2014
112.	Abhishek Roy, Sunil Karforma	Stream cipher based user authentication technique in E-Governance transactions	International Society of Thesis Publication	3	31-37	International Society of Thesis Publication	2014

			Journal of Research in Electrical and Electronics Engineering (ISTPJREEE)			Journal of Research in Electrical and Electronics Engineering (ISTPJREEE)	
113.	Abhishek Roy, Sunil Karforma	Authentication of user in E-Governance: A Digital Certificate based approach	International Journal of scientific research and management (IJSRM)	2	1212-1221	International Journal of scientific research and management (IJSRM)	2014
114.	Abhishek Roy, Sunil Karforma	E-Governance To E-Commerce: A Smart Transition	International Journal of Emerging Research in Management and Technology (IJERMT)	3	82-86	International Journal of Emerging Research in Management and Technology (IJERMT)	2014
115.	T Halder, S Karforma	A novel e-governance data hiding approach combining LSB-steganography and cryptography	Indian Science Cruiser	28	44-49	Indian Science Cruiser	2014
116.	Sanjay Banerjee, Sunil Karforma	Object-Oriented Modeling of DIPRM System for E-Commerce Transaction	Computer Engineering and Intelligent Systems	5		Computer Engineering and Intelligent Systems	2014
117.	Ambalika Ghosh, Sunil Karforma	Object oriented modeling of DSA for authentication of student in E-learning	Int. J. Sci. Res	3		Int. J. Sci. Res	2014
118.	Nikhilesh Barik, Sunil Karforma	Utilization of Multimedia Database with secure registration in e-Learning system	International Conference on Education and e-Learning (EeL). Proceedings		110	International Conference on Education and e-Learning (EeL). Proceedings	2014
119.	Tanmoy Halder, Sunil Karforma, Rupali Mandal	E-governance Data Security using Steganography, Concepts, Algorithms and Analysis	International Journal of Applied Science and Engineering	2	41-54	New Delhi Publishers	2014
120.	Sunil Karforma, Soumendu Banerjee	OBJECT ORIENTED MODELING OF RSA DIGITAL SIGNATURE FOR SECURITY IN E-LEARNING	International Journal of Advanced Technology in Engineering and Science	2		International Journal of Advanced Technology in Engineering and Science	2014
121.	Abhishek Roy, Sunil Karforma	UML based modeling of ECDSA for secured and smart E-Governance system	Computer Science & Information Technology (CS & IT-		207-222	Computer Science & Information Technology (CS & IT-	2013

			CSCP 2013)			CSCP 2013)	
122.	Parthasarathi Chakraborty, Sunil Karforma	Detection of profile-injection attacks in recommender systems using outlier analysis	Procedia Technology	10	963-969	Elsevier	2013
123.	Abhishek Roy, Sunil Karforma, Subhadeep Banik	Implementation of authentication in E-Governance-An UML based approach	LAP Lambert Academic Publishing			LAP Lambert Academic Publishing	2013
124.	Abhishek Roy, Sunil Karforma	Coupling and cohesion analysis for implementation of authentication in E-Governance	ACEEE Conference Proceedings Series	2	544-554	ACEEE Conference Proceedings Series	2013
125.	T Halder, S Karforma	A LSB-Indexed steganographic approach to secure E-governance data	Proceedings of the 2nd International Conference on Computing and System (ICCS)		158	Proceedings of the 2nd International Conference on Computing and System (ICCS)	2013
126.	Sirsendu Sarbavidya, Sunil Karforma	Uml implementation of e-tendering using secret key digital watermarking	International Journal of Computers & Distributed Systems (ISSN 2278-5183)	1	72-75	International Journal of Computers & Distributed Systems (ISSN 2278-5183)	2012
127.	Sanjay Banerjee, Sunil Karforma	On Designing a Secure E-Commerce Transaction Management System–A UML Based Approach	J. Innov. Syst. Des. Eng	2	102-108	J. Innov. Syst. Des. Eng	2012
128.	Nikhilesh Barik, Sunil Karforma, JK Mondal, Arpita Ghosh	Towards Design and Implementation of Space Efficient and Secured Transmission scheme on EGovernance data	arXiv preprint arXiv:1212.3404			arXiv preprint arXiv:1212.3404	2012
129.	Nikhilesh Barik, Sunil Karforma	Object oriented modelling of secured E-assessment system	Int. J. Sci. Eng. Res.(IJSER)	3		Int. J. Sci. Eng. Res. (IJSER)	2012
130.	Nikhilesh Barik, Sunil Karforma	Risks and remedies in e-learning system	arXiv preprint arXiv:1205.2711			arXiv preprint arXiv:1205.2711	2012
131.	Abhishek Roy, Sunil Karforma	A Survey on digital signatures and its applications	Journal of Computer and Information Technology	3	45-69	Journal of Computer and Information Technology	2012
132.	Abhishek Roy, Sunil Karforma	Object Oriented approach of Digital certificate based E-Governance mechanism	ACEEE Conference Proceedings Series	3	380-386	ACEEE Conference Proceedings Series	2012
133.	Anamul Hoda, Abhishek Roy, Sunil Karforma	Application of ECDSA for security of transaction in E-Governance	Proceedings of Second National Conference on Computing and		281-286	Proceedings of Second National Conference on Computing	2012

			Systems-2012 (NaCCS-2012) organized by the Department of Computer Science, The University of Burdwan			and Systems-2012 (NaCCS-2012) organized by the Department of Computer Science, The University of Burdwan	
134.	Arindam Sarkar, Sunil Karforma, JK Mandal	Object Oriented Modelling of Idea using GA based efficient key generation for e-governance security (OOMIG)	arXiv preprint arXiv:1204.1797			arXiv preprint arXiv:1204.1797	2012
135.	Nikhilesh Barik, S Karforma	A study on efficient digital signature scheme for E-governance security	Global Journal of Computer Science and Technology	12		Global Journal of Computer Science and Technology	2012
136.	Sirsendu Sarbavidya, Sunil Karforma	Applications of public key watermarking for authentication of job-card in MGNREGA	Bharati Vidyapeeth's Institute of Computer Applications and Management	4		435-438	2012
137.	Sirsendu Sarbavidya	Image Watermarking: A Survey	Journal of Global Research in Computer Science	2	38-41	Journal of Global Research in Computer Science	2011
138.	Abhishek Roy, Sunil Karforma	Risk and Remedies of E-governance Systems	Oriental Journal of Computer Science & Technology (OJCST)	4	329-339	Oriental Journal of Computer Science & Technology (OJCST)	2011
139.	Abhishek Roy, Subhadeep Banik, Sunil Karforma	Object oriented modelling of RSA digital signature in e-governance security	International Journal of Computer Engineering and Information Technology (IJCEIT), Summer Edition	26	24-33	International Journal of Computer Engineering and Information Technology (IJCEIT), Summer Edition	2011
140.	Abhishek Roy, Sunil Karforma	A survey on E-governance security	International Journal of Computer Engineering and Computer Applications (IJCECA). Fall	8	50-62	International Journal of Computer Engineering and Computer Applications (IJCECA). Fall	2011

			Edition			Edition	
145.	Abhishek Roy, Subhadeep Banik, Sunil Karforma, Jayanta Pattanayak	Object oriented modeling of IDEA for E- governance security	Proceedings of International Conference on Computing and Systems	1020	263-269	Proceedings of International Conference on Computing and Systems	2010
146.	Sanjay Banerjee, Sunil Karforma	A prototype design for DRM based credit card transaction in E- commerce.	Ubiquity		2:1	Ubiquity	2008
147.	Sanjay Banerjee, Sunil Karforma, Santanu Ghosh	A DRM based credit card transaction in e- commerce system	41st National Convention of CSI			41st National Convention of CSI	2006
148.	Sunil Karforma	A study on the application of cryptography in E_commerce	Shodhganga			INFLIBNET Centre	2005
149.	Sripati Mukhopadhyay, AM Midda, Sunil Karforma	INTERNET: a Cryptosystem for Internet security	INFLIBNET Centre			INFLIBNET Centre	2002
150.	Karforma, S., & Banerjee, S	Object Oriented Modeling of Digital Certificate in E-learning	International Journal of Emerging Trends and Technology in Computer Science	3	205-211	International Journal of Emerging Trends and Technology in Computer Science	
151.	Roy, Abhishek, and Sunil Karforma	Data Modeling of a multifaceted electronic card based secure E- Governance system	Chapter No: 12 of Book Emerging Mobile and Web 2.0 Technologies for Connected E-Government		280-299	Zaigham Mahmood, University of Derby, United Kingdom (UK	
152.	Karforma, Sunil, and Soumendu Banerjee	OBJECT ORIENTED MODELING OF ELGAMAL DIGITAL SIGNATURE FOR AUTHENTICATION OF STUDY MATERIAL IN E-LEARNING SYSTEM					

15. Ph.D. Awardee

Sl. No.	Name	Thesis Title
1	Dr. Sanjay Banerjee	DIPRMS In ECommerce System – An UML Approach
2	Dr. Partha Sarathi Chakraborty	Studies on scalable, secure and trust-aware E-Commerce Recommender Systems.
3	Dr. Abhishek Roy	Studies on Information Security In E-Governance Using Cryptography
4	Dr. Nikhilesh Barik	Studies on Security Issues In E-Learning
5	Dr. Akash Nag	Computational Analysis of Snake Venom Proteins in The Elapidae Family: A Study and New Dimension.
6	Dr. Soumendu Banerjee	A Study on Authentication Issues in E-Learning
7	Dr. Tanmoy Halder	A Study on Steganography Based Authentication of Information
8	Dr. Ajit Kumar Singh	Digital Right Management For Distance Education
9	Dr. Kh. Amirul Islam	Steganographic Approach to Secure Resources of E-Learning
10	Dr. P.K. Samanta	Studies of secured E- Education system with special reference to rural India.
11	Dr. Ambalika Ghosh	Studies on Security of E-Learning Using Cryptography
12	Dr. Dulal Kumbhakar	A Study Data on Security in E-Commerce Using Elliptic Curve Cryptosystem

16. Additional Academic and Administrative Responsibilities:

1. Acted As External Member of Board of Studies In Different State Universities Such As Binod Bihari Mahto Koyalanchal University (Dhanbad), Visva Bharati University, Kazi Nazrul University, Bankura University, Rani Rashmoni Green University, University of Gour Banga, Barasat State University
2. Acted as Examiner, Moderator and Paper Setter in Different Universities like Jadavpur University, Kalyani University, North Bengal University, etc.
3. Acting as a Member of Board of Research Studies in Vidyasagar University and Brainware University.
4. Acted as Invigilator in UGC-NET/ SET exams (2012-13, 2013-14, 2014-2015, and 2023-2024).
5. Evaluated Many Ph.D. Thesis of Different Universities.
6. Acting as the Member for the Adhoc Board of UG & PG Engineering courses under The University of Burdwan.
7. Participated in a Syllabus Committee of Several Universities (Green University, Harichand Guruchand University , Sadhu Ram Chand Murmu University).
8. Acting as a Member of Board of Research Studies, B.U.
9. Acting as a Member of UGBOS & PGBOS, Department of Computer Science, B.U