Biodata

1. General information

	me Capital Letters	JYOTSNA KU	JMAR N	IANDAI	Ĺ			
Da	te of Birth ay/Month/Year)	08-08-1960	08-08-1960					
Ċo	rrespondence dress	A502 Green V	A502 Green Valley Housing Complex, Kaikhali Chiriamore, Near New Basanta Sweets, Kolkata 700136, West Bengal, India					
	rmanent Addre	ss Vill- Nerakop 721127	Vill- Nerakopa, P.O. – Raskundu, PS-Garhbeta, Dist Midnapur West, West Bengal, Pin-					
Biı	rth place	Vill- Nerakop	a, P.O. R	askundu	, PS-G	arhbeta, D	ist Paschim	Medinipur (Jangalmahal)
	one. No		(0)94343 8240323		Lan	dline No.		(033) 46056570
En	nail:	jkm.cse@gma	il.com		Alte	rnate Ema	il, if any	<u>ikmandal@klyuniv.ac.in</u>
W	ebsite	http://jkmanda	l.com					
2.	Present Positi	on:						
a.	Designation			Vice Ch	nancell	or, Raigan	j University,	Raiganj, West Bengal
b.	Organization					Jniversity	, ,	
c.	Pay Scale				mic Level-14, BP: Rs. 218,200.00			
d.		ntment to the present	post	09-03-2023				
e.		nce (in Years and Me arch, 2023) as Profes	· · · · · · · · · · · · · · · · · · ·			rs as researcher and faculty members in various ons.18 years as Professor of CSE		
3.	Details of exper	ience as Professor:						
Sl. No	Post held	Pay Scale	Organi	ganization		Nature of	duties	Experience (In Years and Months)
1	Professor	Rs. 37,000-67,000	Kalyan College				(2 yrs. 11 days)	
2	Professor	Rs. 37,000-67,000 Pay Band 14	Kalyan	i (open F	University of i (open Post)Teaching, and administration		h 27.3.2007- Continuing (15 yrs. 5 months as on 31 ^s August 2022)	
4.		Qualification (in cl	nronolo	gical or	der fr	om highe		
No	Qualification	University	Year			s)/Topic	%achieve	l Distinctions etc.
	Ph. D.	Jadavpur University	2000		nputer Engine	Science & ering	NA	Ph. D. in Engineering
2	Post- Graduation (M. Tech.)	The University of Calcutta	1987	Computer Science		Science	75.25	-
;	Post- Graduation (M. Sc.)	Jadavpur University	1985		Phys	sics	65.70	Two Silver Medals for highest score in the Special Paper
ļ	Graduation	The University of Burdwan	1983		Phys	sics	56.75	-

5. Contribution in terms of Infrastructure Development in West Bengal

- **1.** Expert of AICTE Peer Team for EVC.
- 2. Expert of NAAC Peer Team.
- **3.** Expert for Academic Audit in various institutes.
- 4. Designed and implemented full campus networking consisting of 4Km fiber optic network and 4Km UTP Network at the University of North Bengal during 1998-2000 from the project fund received from UGC (80 Lakhs).
- Initiated to open Department of Engineering & Technological Studies, under Engineering Faculty and two streams of undergraduate studies, Information Technology and Electronics and Instrumentation Engineering as Dean Faculty of Engineering, Technology & Management, and University of Kalyani in 2008.

- **6.** Actively involved in infrastructure development, networking, wireless communication between Main campus and Hostel situated at a distance of 2 km from main campus of Kalyani Government Engineering College as Coordinator of TEQIP I in Kalyani Govt. Engg. College, Govt. of West Bengal, during 2006-2007.
- 7. Domain Expert member of Uttarbanga Krishi Viswavidyalaya nominated by ICAR Govt. of India for planning, designing and implementation of networking and internetworking of Uttarbanga Krishi Viswavidyalaya campus, Coochbehar during my tenure as Head, Department of Computer Science & Application, University of North Bengal during 2002-2004.
- **8.** Domain Expert member of West Bengal University of Animal and Husbandry, Belgachia for designing and implementation of Video Conferencing labs at Belgachia Campus and Haringhata Campus during 2009-10.
- 9. As Chairman of Center for Information Resource Management, University of Kalyani, implemented wireless connectivity between Central Park and Main Campus of the University of Kalyani
- 10. Implemented web based Remote Library Resource Access at the University of Kalyani as Chairman, CIRM
- 11. Expert member of Raiganj Uiversity for design and implementation of ICT and Networking infrastructure.

6. Administrative Experience – Post(s) & Responsibilities Held:

S1.	Post	Organization/ University	Dura	ntion	Experience
No.			From (Date)	To (Date)	(In Years and Months)
	Vice-Chancellor	Raiganj University	09-03-2023	Cont.	
1.	Vice- Chancellor (In Charge), Kalyani University	University of Kalyani	08.04.2017	12.04.2017	5 days
2	NAAC Peer Team Expert	National Assessment and Accreditation Council, Government of India	January 2019	Continuing	-
2	AICTE Expert Committee Member	All India Council for Technical Education, Govt. of India	April, 2021	Continuing	EXPERT20190962
2.	Director, IQAC, Kalyani University	University of Kalyani	19.02.2014	30.11.2021	More than six years
3.	Chairman, Professional/ Academic bodies	 Center for Information Resource Management (CIRM), KU Computer Science Hons/M. Sc/MCA, North Bengal 	2015 1998	continuing 2000	five yrs. two yrs.
		University 3. Placement Cell, Kalyani University	2018	continuing	two yrs.
		 Chairman, Board of Research studies, NIT Mizoram Chairman, Board of Research 	2014 2018-2010 and	2018	four yrs. three yrs.
		 Computer Science Major Computer Science Major Computer Society of India, 	2019-2010 and 2019 2008 1887	Continuing Continuing 1999	11 yrs. two yrs.
		Siliguri Chapter 8. Computer Society of India, Kolkata Chapter	2016	2017	one yr.
		9. Institution of Electronics and Telecommunication Engineering (IETE), Secretary	2018	2020	2020-2022
		10. Institution of Electronics and Telecommunication Engineering (IETE), Chairman	2020	continuing	2020-2022.
		11. Institution of Electronics and Telecommunication Engineering (IETE), New Delhi, Governing Council Member	2005	2007	two years
		12. Coordinator, TEQIP-I, Kalyani Govt. Engg. College	2012	2016	four yrs.
		2011 2155. 201050	2014	2016	two yrs.

		 Chairman, BOS, CSE, NIT Mizoram. Regional Student Coordinator, Region II, CSI, 2014-2016 			
4.	Dean of Faculty of Engineering, Technology & Management	University of Kalyani, Faculty of Engineering, Technology and Management	2008 23.4.2008 (1st term) 9.7.2010 (2 nd term)	2012 22.4.2010 (ist term) 8.7.2012 (2 nd term)	two consecutive terms
5	Member of Academic Council	Member of Faculty Council, University of Kalyani	2007	continuing	13 yrs.
6.	Member of Executive Council/BOG	University of Kalyani	2008	2012	4 yrs.
7.	Member of University Court	University of Kalyani	2008 2014	2012 2016	4 yrs. 2 yrs.
8.	Head of the Department	Kalyani University University of North Bengal Computer Center, North Bengal University Kalyani Govt. Engineering College	2008 1998 1998 2005	2010 2000 2000 2007	2 years 2 Years 2 years 2 Years
9.	Member of professional/ Academic Bodies	IETE Fellow(life) (2012): F232495: IEEE Senior member (2013):92557072; ACM Associate member (2012): 2006735:	2012 2013 2012	continuing Continuing Continuing	6 yrs. 6 yrs. 7 Yrs
		CSI Life member (1992):16278; CRSI Life member (2009): L/330; AIRCC Member (2011):128572;	1992 2009 2011 2017	Continuing Continuing Continuing Continuing	27 yrs. 11 yrs. 9 yrs. 3 yrs.

7. a. Contributions to Journals and Book

S.No			Numbers already published / presented		
1	1 Book authored (For more information kindly see		In 2020 he has published a text book on		
	website of Dr. J K Mandal, http:/	//jkmandal.com)	Reversible Steganography and		
			Authentication via Transform Encoding from		
			Springer		
			(https://link.springer.com/book/10.1007/978-		
			981-15-4397-5) This book is also		
			translated into Chinese in 2021 and		
			published separately by the Springer.		
			Twelve		
2	Editor in chief (For more inform		one		
	website of Dr. J K Mandal, http:/	//jkmandal.com)			
3	Editorship (For more informa	•	55 in Edited Books in International		
	website of Dr. J K Mandal, htt		Conferences(Springer etc.)		
4	Peer review f	or	Springer, Elsevier, IEEE journals and		
			conferences(many)		
5	Member of the International Advisory Board (For more		Various Conferences(Springers etc.)(many)		
	information kindly see the website of Dr. J K Mandal,				
	http://jkmandal.com				
ublicati	ions:				
S.No	Category	rs already published / presented			

1	International Journals (UGC approved list only)	190(For more information kindly see the website of Dr. J K Mandal, http://jkmandal.com)
2	International Conference	228 (For more information kindly see the website of Dr. J K
		Mandal, http://jkmandal.com)
3	National Journals (UGC approved list only)	
4	National Conference	54 (For more information kindly see the website of Dr. J K Mandal, http://jkmandal.com)
5	Other articles	Kindly see the website of Dr. J K Mandal, http://jkmandal.com

B.I List of scholarly publications in recognized professional and/or academic journals:

List of Journals to be given a s annexure

S. No		Web of Science	Scopus	Goolge Scholar
1	Publication (number as appeared)	149	288	500
2	Citations (Overall)	700	806	3373
3	h-index	12	14	26

C. Participation and Scholarly presentation in conference:

C.I. National

S. No.	Date	Title of Conference or Institution	Title/Subject of Presentation(if made)
			55(For more information kindly see the website of Dr. J K Mandal, http://jkmandal.com)

C.II. International

S.No	Category	Number of Presentations
1.	International Conference / Other Event held Abroad	5
2.	International Conference / Other Event held in India	224(For more information kindly see the website of Dr. J K Mandal, http://jkmandal.com)
	Total	229

D. Participation and contribution in National / International Fora in the area of your academic and professional expertise:

		Numbers(s)
Plenary Lectures / invited	International (See	5
talks delivered	Annexure	
	National	More than 100 lectures in last five years
		(For more information kindly see the website of Dr. J K Mandal, http://jkmandal.com)
Congress attended	National	More than 30 (in last five years)
	International	
Ph.D Level Examinership,	International	4
etc,.	National	8-10 per year
Others (Specify)	International	International Academic Exposure (For
		more information kindly see the website of
		Dr. J K Mandal, http://jkmandal.com)
	National	

7. Consulting Experience:

List key consulting assignments undertaken;

S.No	Client 'Organization's name	Nature of Assignment	Duration	Value (in Rs)
1.	Uttarbanga Krishi Vishwavidyalaya	Domain Expert member of Uttarbanga Krishi Vishwavidyalaya nominated by ICAR Govt. of India for planning, designing and implementation of networking and internetworking of Uttarbanga Krishi Vishwavidyalaya campus, Coochbehar during my tenure as Head, Department of Computer Science & Application, University of North Bengal during 2002- 2004	Two Years	Honorary
2.	West Bengal University of Animal and Husbandry, Belgachia, Kolkata	Domain Expert member of West Bengal University of Animal and Husbandry, Belgachia for designing and implementation of Video Conferencing labs at Belgachia Campus and Haringhata Campus during 2009-10.	Two Years	Honorary

8. Honors/Awards & Fellowships for Outstanding work

SI.	Name of Award/Fellowship etc	Year of	Awarded by
No.		Award	
1	A. M. Bose Memorial Silver medal for securing highest marks in the	1985	Jadavpur University
	paper "Nuclear Physics and Cosmic Rays" at M. Sc		
2	Kali Prasanna Dasgupta Memorial Silver medal for securing highest	1985	Jadavpur University
	marks in the paper "Nuclear Physics and Cosmic Rays" at M. Sc		
3	"Bharat Jyoti Award" for meritorious services, outstanding	2012	International Friendship Society(IIFS), New
	performances and remarkable role in the field of Computer Science &		Delhi
	Engineering on 29 th August, 2012		
4	"The Best Citizen of India Award 2012"	2012	The International Publishing House, Delhi,
			India
5	Biography in Marquis Who's Who in the World 2014(31st Edition),	2014	
	USA (published in November 2013)		
6	Chapter Patron Award, CSI Kolkata Chapter, 2014	2014	CSI Annual Convention at JNTU, Hyderabad
			during 14-16 December, 2014
7	Vidyasagar Award	2016	International Society for Science Technology
			and management in the fifth International
			Conference on Computing, Communication and
			Sensor Network, on 25 th December, 2016 at
			Hotel Golden park, Kolkata,India
8	Rashtriya Pratibha Award	2017	Indo Socio Development Association, Delhi
9	Siksha Ratna award	2018	Department of Higher Education,
			Government of West Bengal, India
10	Highest Scopus Index based Journal Publications in 2013-2022	2013-	Highest 203 Scopus based publication in last
	from Kalyani University	2022	ten years among all faculty members(220) of
			the University of Kalyani.

9. No. of Research Scholars (Ph. D) successfully guided:

S. No	Ph. D. Supervision	Affiliated University/Institute	Awarded/ under guidance by	Main Guide
	18inComputerScience&Engineering and 6 inComputer Science	University of North Bengal and University of Kalyani	29	29

10. Patents

SI.	Title of Patent	Organization	Year	Names
No.				
1	Enhancing Cyber Security using Hybrid Authentication Technique	Patent Number 2021100948, Innovation Patent, Australian Government, Eight years from 19.02.2021	2021	Gaurav Gambhir, M Gambhir, J K Mandal



Place: Kalyni, 10.03.2023

(Signature of Applicant)

SCI Publications in last five years (2023-2018)

2023

- Das, S., Mandal, J.K. A modified column block Toeplitz matrix for compressed sensing. Signal, Image and Video Processing(SIViP) (2023). <u>https://doi.org/10.1007/s11760-023-02529-8</u>, Springer Nature(SCIE, IF:1.583), March 4 2023
- Jyotsna Kumar Mandal, Srishti Dey, and Ajay Kumar, A Steganographic Approach for Secured Communication via Boustrophedon Transformation to Develop IoT Based Smart City, IETE Journal of Research, Tailor & Francis (SCI, IF: 1.877) (Oct. 2022) (published on line).

2022

- Bandyopadhyay, S., Thakur, S.S. & Mandal, J.K. Emotion Detection for online recommender system using deep learning: a proposed method, Innovations Syst Softw Eng 17th May, 2022. https://link.springer.com/article/10.1007/s11334-022-00437-7
- Krishan Kundu, Prasun Halder & Jyotsna Kumar Mandal (2022) Estimation and Analysis of Change Detection, Forest Canopy Density, and Forest Fragmentation: A Case Study of the Indian Sundarbans, Journal of Sustainable Forestry, SCIE(IF:1.515); DOI: 10.1080/10549811.2022.2059515, published 30th March 2022, link: https://www.tandfonline.com/doi/full/10.1080/10549811.2022.2059515
- 3. Priyadarshini R, Chintalapati R, Nath V, Shylashree N, Sharma J B, Mandal, J K, "A Novel Approach for Node localization in Wireless Multimedia Sensor Network", IETE Journal of Research, communicated May 2, 2022.
- Ghosh, S, Chakraborty, A, Mandal, J K, "Fusion: An EXOR Based Vertex Synthesis to Minimize Switching Functions", Theory of computing Systems, Springer Nature(SCI, IF:0.582)(communicated on 12th May,2022).(<u>https://www.springer.com/journal/224</u>).
- Ghosh, P., Goto, T., Mandal, J.K. et al. View materialization using fuzzy MAX–MIN composition with association rule mining (VMFCA). Innovations Syst Softw Eng (2022). https://doi.org/10.1007/s11334-022-00484-0

2021

Patents:

Patent Title: Enhancing Cyber Security using Hybrid Authentication Technique, Gaurav Gambhir, M Gambhir, J K Mandal, Patent Number 2021100948, Innovation Patent, Australian Government, Eight years from 19.02.2021.

- Santra, D., Basu, S. K., Mandal, J. K., & Goswami, S. (2019). Rough set based lattice structure for knowledge representation in medical expert systems: low back pain management case study. Expert Systems with Applications, Elsevier (Impact factor: 6.954 (2019)) [SCI], 145,113084
- 2. Kundu, K, Halder P and Mandal, J K, Change Detection and Patch Analysis of Sundarban Forest During 1975–2018 Using Remote Sensing and GIS Data, SN Computer Science, Springer(June 2021), 2:364.
- Debarpita Santra, Subrata Goswami, Jyotsna Kumar Mandal and Swapan Kumar Basu, Low Back Pain Expert Systems: Clinical Resolution through Probabilistic Considerations and Poset", Journal Artificial Intelligence in Medicine, Science Direct Elsevier, Volume 120, October 2021, 102163(SCI, IF:5.326) (https://www.sciencedirect.com/science/article/pii/S0933365721001561), September, 2021.
- Krishan Kundu, Prasun Halder & Jyotsna Kumar Mandal, Detection and Prediction of Sundarban Reserve Forest using the CA-Markov Chain Model and Remote Sensing Data", Earth Science Informatics (2021), Springer Nature(17th July 2021(SCIE with IF: 2.878))2021, DOI: <u>https://doi.org/10.1007/s12145-021-00648-9</u>, 2021.
- M Marjit Sing, Mandal, J K, A Novel Wide & Deep Transfer Learning Stacked GRU Framework for Network Intrusion Detection, Journal of Information Security Applications, ELSEVIER, Vol 91,SCIE(IF 3.872), June, 2021, https://doi.org/10.1016/j.jisa.2021.102899, https://www.sciencedirect.com/science/article/pii/S2214212621001265.
- Sounak Sadhukhan, P.K. Mishra, S.K. Basu, J.K. Mandal, A multi-scale agent-based model for avascular tumour growth, Biosystems, Volume 206, 2021, 104450, ISSN 0303-2647, <u>https://doi.org/10.1016/j.biosystems.2021.104450</u>. ELSEVIER SCI, SCIE with IF:1.808. (https://www.sciencedirect.com/science/article/pii/S0303264721001040).
- Arindam Sarkar, Moirangthem Marjit Singh, Jyotsna Kumar Mandal, Neural Synchronization guided Concatenation of Header and Secret Shares for Secure transmission of Patients' Electronic Medical Record: Enhancing Telehealth Security for COVID-19, Arabian Journal for Science and Engineering(SCIE, IF 2.334, Springer Nature, January 2021.

- Gambhir, G and Mandal, J K, Shared memory implementation and performance analysis of LSB steganography based on chaotic tent map, Innovations in Systems and Software Engineering, https://doi.org/10.1007/s11334-021-00385-8(March 2021)
- Bandyopadhyay, S., Thakur, S.S. & Mandal, J.K. Product recommendation for e-commerce business by applying principal component analysis (PCA) and K-means clustering: benefit for the society. Innovations Syst Softw Eng 17, 45– 52 (2021). https://doi.org/10.1007/s11334-020-00372-5

2020

- Santra, D., Mandal, J. K., Basu, S.K. et al. Medical expert system for low back pain management: design issues and conflict resolution with Bayesian network. Med Biol Eng Comput (2020). https://doi.org/10.1007/s11517-020-02222-9, Springer(SCI, IF-2.6022), 7 September,2020.
- Soma Bandyopadhyay, S. S. Thakur1,J. K. Mandal, Product recommendation for e-commerce business by applying principal component analysis (PCA) and K-means clustering: beneft for the society, Innovations in Software and Systems Engineering(NASA Jpurnal), Spinger, SCIMago, June, 2020
- 12. Mandal, J K., Chakraborty, R, A 10nm MOS and Its Applications, Microsystem technologies, Springer (Microsyst Technol (Feb, 19,2020) (IF:1.581).
- 13. Kundu, K, Mandal, J K., Halder, P, Urban Change Detection Analysis during 1978-2017 in Kolkata, India using Multi-temporal Satellite Data, Journal of the Indian Society of Remote Sensing (Sept., 2020) (SCIE, IF: 1.563)
- 14. Das, S, Mandal, J K., An enhanced block based Compress Sensing Technique using orthogonal matching pursuit, Signal, Image and Video Processing, Springer (2020) (in press) (SCI, IF 2.157).
- Gambhir, G. & Mandal, J.K. Multicore implementation and performance analysis of a chaos based LSB steganography technique, Microsystem technologies, Springer (Microsyst Technol (2020) 25: 1669. https://doi.org/10.1007/s00542-020-04762-4) Feb. 2020 (IF:2.276).
- 16. Das, S., Mandal, J.K. Saliency detection via outlier pursuit in compress domain (SDOPCD). Microsyst Technol (2020). https://doi.org/10.1007/s00542-020-04769-x
- Santra, D., Mandal, J. K., Basu, S. K., & Goswami, S. (2019). Addressing Design Issues in Medical Expert System for Low Back Pain Management: Knowledge Representation, Inference Mechanism, and Conflict Resolution Using Bayesian Network. Medical & Biological Engineering & Computing, Springer (Impact factor: 2.039 (2019) [SCI]) [In revision]

2019

- Hassan, K L, Mandal, J K, Mondal, S, Enhanced Trust-based Intrusion Detection System in MANET, Journal of Scientific & Industrial Research(JSIR), Vol. 78, August 2019, pp. 509-512, 2019(IF:0.735)
- Chakraborty, R. & Mandal, J.K. An FPGA based cascaded CBC block cipher through RPSPNC and TE, Microsystem technologies, Springer (Microsyst Technol (2019) 25: 1669. https://doi.org/10.1007/s00542-017-3458-x) May 2019, Volume 25, Issue 5, pp 1669–1677(IF:1.581).
- Chakraborty, R, Mandal, J K, An FPGA based non-feistel block cipher through recursive substitutions of bits on primenonprime detection of sub-stream (RSBPNDS), Microsystem Technologies (2019) (Microsyst Technol (2019) 25: 1679. <u>https://doi.org/10.1007/s00542-017-3662-8</u>), May 2019, Volume 25, Issue 5, pp 1679–1687(IF:1.581)
- 21. Hassan, K. L., Mandal, J. K. (2019), "Risk Factor Based Ad-hoc On Demand Multipath Distance Vector Routing Protocol (RF-AOMDV), JSIR (SCI E Journal), (vol 78, pp 746-750, Nov, 2019) (IF:0.557).
- Dutta, P., Chatterjee, R. & Mandal, J.K.(2019), "An approach for deployment of BRS in software-defined network", Innovations Syst Softw Eng(ESCI) (2019). https://doi.org/10.1007/s11334-019-00340-8, A Nasa journal, Springer, pp 1-7(IF:1.10)
- Kundu K., Halder P., Mandal J.K. (2019) Forest Cover Change Analysis in Sundarban Delta Using Remote Sensing Data and GIS. In: Mandal J., Sinha D. (eds) Intelligent Computing Paradigm: Recent Trends. Studies in Computational Intelligence (Web of Science Indexed), vol 784, pp 85-101, https://doi.org/10.1007/978-981-13-7334-3_7, Springer, Singapore.

2018

- 24. Das, S., Mandal, J.K, An information Hiding scheme in wavelet domain using Chaos dynamics, Journal of scientific & industrial research, vol 77, May 2018.pp 264-267(SCI).
- 25. Saha, S Ghoshal, S K Chakraborty A, Drargupta S, Sarkar, Mandal, J K, Improved exploiting modification direction-based steganography using dynamic weightage array, Electronica Letters, Vol. 54 No. 8 pp. 498-500, (IF:1.59)19th April, 2018(2018)
- 26. R Chatterjee, R Chakraborty, J K Mandal (2018), Design of Cryptographic model for End-to-End Encryption in FPGA based systems Microsystems Technology, Springer (SCI)(online first), (IF:1.581)
- Mandal J., K., Chakraborty Raktim "Design of 4nm MOSFET and its Applications", Microsystem Technology, Springer, July 2018 (SCI) (online first) (IF:1.581).
- Ghosal, S and Mandal, J., K., "High Payload Image Steganography based on Laplacian of Gaussian (LoG) Edge Detector", Multimedia Tools and Applications (IF:1.530), Springer (Science Citation Index Expanded (SciSearch), May, 2018.
- 29. Ghosal, S and Mandal, J., K., On the use of the Stirling Transform in Image Steganography, Journal of Information Security and Applications (IF:1.357), Elsevier (in Press), 2018
- Mandal, J. K., Das, S, (2018), An Information Hiding Scheme in Wavelet Domain using Chaos Dynamics, Journal of Scientific and Industrial Research (IF:0.557), ISSN: 0022-4456(SCI)(Vol 77(05), pp264-267
- Chatterjee R, Mandal J. K., (2018), A Content Proposer System (CPS) based on deficiencies of Confidence Based Learning (CBL), Journal of Scientific and Industrial Research (IF:0.557), ISSN: 0022-4456. (SCI), Vol. 78(1), pp 35-38
- 32. Das, S, Mandal, J. K., Secured Hand Sacking Based Two Phase Data Concealing Architecture in Spectral Domain, Microsystem Technology (IF:1.581), Springer (Online first) March 2018(SCI)
- 33. Shaswata Saha; Sudipta Ghosal; Anuran Chakraborty; Souvik Dhargupta; Ram Sarkar; Jyotsna Mandal, "Improved exploiting modification direction based steganography using dynamic weightage array", Electronics Letters, IET Digital Library(IF:1.155), DOI: 10.1049/el.2017.3336, Print ISSN 0013-5194, Online ISSN 1350-911X Available online: 02 March 2018(SCI)(IF:1.232

Research Project

- 34. Modernization of Laboratory Facility (2000-2002) Rs. 7 Lakhs, Funding Agency: AICTE, Government of India.
- 35. Microprocessor Based Encoder for Secured Transmission (2002-2005) Rs. 2 Lakhs, Funding Agency: AICTE, Government of India.
- 36. GIS Anchored Integrated Plantation Management: Tea 2004- 2007) Rs. 9.8 Lakhs. Funding Agency: AICTE, Government of India.
- 37. IIPC Cell AICTE, Govt. of India (April 2009 to March 2012) Rs. 10.00 Lakhs, Funding Agency: AICTE, Government of India.
- MIT, Govt. of West Bengal, Basic Computer Training of School Teachers (July, 2010 to March, 2011) Rs. 4 Lakhs, Funding Agency: Ministry of Information Technology, Government of West Bengal.