



Dr. Madhumita Sengupta

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Objective: - To be in edification field under some experiences holders and skilled workforce.

Educational Qualification: -

<i>Name of Examinations passed</i>	<i>Name of Board/University/Institute</i>	<i>Division/Class</i>	<i>Year of Passing</i>	<i>% of Marks obtained</i>	<i>Subject(s) taken</i>
M. Tech in CSE with GATE	University of Kalyani	I	May 2010	87.05 (2 nd Rank)	Computer Science and Engineering
Master Of Computer Application (MCA)	IGNOU/ St Xavier's College	I	Dec 2007	67.94	Computer Application
Advanced Diploma in Computer Application (ADCA)	IGNOU/ St Xavier's College	I	June 2006	68.92	Computer Application
Bachelor Of Computer Application (BCA)	IGNOU/ Maulana Azad College	I	June 2005	67.17	Computer Application

Degree of Doctor of Philosophy (Engineering): Thesis submitted on 25.02.2015 and awarded on 15.10.2015.

Title: 'Towards Design and Implementation of Discrete Transform Image Coding based Document Authentication Techniques'

Award Received:-

“Active Participation – Woman Member”, 2012 – 2013 from Computer Society of India, received on 13th December, 2013, at CSI-2013 48th Annual Convention, Visakhapatnam

Total Number of Publication: IEEE Conference (07) + Elsevier Procedia Technology (02) + AISC series of Springer (04) + Other International Conference (03) + National/Zonal Conference (06) + International Journal (06) = 28 (Published).

Professional Qualification: -

SLNO	NAME OF COURSE	INSTITUTE	YEAR OF PASSING	GRADE
1.	Diploma in Computer Application	APIIT	1997	B
2.	GNIIT*	NIIT	2005	A

GNIIT*:-

SLNO	SEMESTER / SUBJECT LEARN	DURATION	PERCENTAGE	GRADE
1.	DOS, Window NT, LAN concept Microsoft Office, Internet.	26 week	78.8	B
2.	Microsoft SQL Server 7.0, HTML,UML, Java programming	26 week	82.24	A
3.	Linux, C++ & CGI, Linux Administering, Windows NT Administrator, Quality Management.	26 week	93.68	A
4.	Visual Basic, Visual C++.	26 week	85.60	A

Other Certification:-

SLNO	NAME OF COURSE	INSTITUTE	YEAR OF PASSING	HOURS
1.	Advanced Java with Java Beans	NIIT	September 2001	48 hrs
2.	Developing Windows Applications with VB NET	NIIT	September 2002	36 hrs
3.	Basics Of C# Programming	NIIT	September 2002	36 hrs
4.	Conversational English	BBC	August 2000	72 hrs

NIS:-

SLNO	SEMESTER	NAME OF COURSES	PERCENTAGE
1.	I	Written Test ABC	80
2.	II	Presentation ABC	76
3.	III	Written Test ABC	98

Paper Published in International Conference IEEE: - 07

1. J. K. Mandal, Mandrita Saha, Pragati Mandal, Madhumita Sengupta, Tandra Pal, Mrinal Kanti Bhowmik, "Adaptive Partial Image Encryption Technique based on Chaotic Map", Fourth International Conference of Emerging Applications of Information Technology (EAIT 2014), pp 328 - 334, DOI: 10.1109/EAIT.2014.61, December 19-21, 2014, Kolkata, India
2. Madhumita Sengupta and J. K. Mandal, "G-Let based Authentication/Secret Message Transmission (GASMT)", IEEE, 4th International Symposium on Electronic System Design ISED- 2013, 10-12 Dec. 2013, NTU Singapore, pp 186 – 190, ISBN - 978-0-7695-5143-2, DOI : 10.1109/ISED.2013.44.
3. Madhumita Sengupta and J. K. Mandal, "Authentication of Images through Non Convolved DCT (AINCDCT)", first International Conference on Communication and Industrial Application (ICCIA 2011), Dec, 26-28, 2011, Organised by: Narula Institute of Technology, JIS, IEEE, pp- 1-4, DOI: 10.1109/ICCIIndA.2011.6146672.

4. Madhumita Sengupta and J. K. Mandal “Image Authentication using Hough Transform generated Self Signature in DCT based Frequency Domain (IAHTSSDCT)”, ISED- 2011, Kochi, Kerala, 19th -22nd Dec, 2011, pp- 324-328, DOI 10.1109/ISED.2011.43.
5. Madhumita Sengupta and J. K. Mandal, “Self Authentication of Color Images through Discrete Cosine Transformation (SADCT)”, IEEE catalog no: CFP1122P-CDR, ICRTIT, Anna University, Chennai, ISBN No-: 978-1-4577-0589-2, 3rd-5th June 2011.
6. J. K. Mandal and Madhumita Sengupta, “Steganographic Technique Based on Minimum Deviation of Fidelity (STMDF)”, IEEE, Second International Conference on Emerging Applications of Information Technology (EAIT 2011), Print ISBN: 978-0-7695-4329-1 published by the IEEE Computer Society, DOI: 10.1109/EAIT.2011.24, pp- 298 – 301, Issue Date: 19-20 Feb. 2011, IEEE Computer Society Order Number P4329, Library of Congress Number 2010942909, BMS Part Number CFP1072M-PRT.
7. J. K. Mandal and Madhumita Sengupta, “Authentication/Secret Message Transformation Through Wavelet Transform based Subband Image Coding (WTSIC)”, IEEE, International Symposium on Electronic System Design 2010, pp 225-229, ISBN 978-0-7695-4294-2, Bhubaneswar, India, DOI 10.1109/ISED.2010.50. Print ISBN: 978-1-4244-8979-4, Dec, 20th - 22nd, 2010.

Paper Published in Elsevier with Procedia Technology: - 02

1. Madhumita Sengupta and J. K. Mandal, “Authentication through Hough transformation generated Signature on G-Let D3 Domain (AHSG)”, 1st International Conference on Computational Intelligence: Modeling, Techniques and Applications (CIMTA- 2013), Sponsored by AICTE, Govt. of India, Technically Sponsored by IEEE Kolkata chapter & Proceedings published with Procedia Technology, Elsevier, Vol. 10 (2013), ISSN 2212-0173, www.sciencedirect.com, pp – 121-130, 27th -28th September, 2013.
2. Madhumita Sengupta, P. Mandal, Tanmoy Das and Abhijit Dey, “A Novel Hash based Technique for Thermal Image Authentication”, 1st International conference on Computational Intelligence: Modeling, Techniques and Applications (CIMTA- 2013), Sponsored by AICTE, Govt. of India, Technically Sponsored by IEEE Kolkata chapter & Proceedings published with Procedia Technology, Elsevier, Vol. 10 (2013), ISSN 2212-0173, www.sciencedirect.com, pp – 147-156, 27th -28th September, 2013.

Paper Published in AISC series of Springer: - 04

1. Suman Mahapatra, J. K. Mandal, Madhumita Sengupta, “Authentication in Higher Region of Convergence of Z Transform Domain (AHRocZ)”, Second International Conference on INformation Systems Design and Intelligent Applications - 2015 (INDIA-2015), Advances in Intelligent and Soft Computing (AISC- 340) – Springer, 8th – 9th January, 2015. ** indexed by ISI Proceedings, EI-Compendex, DBLP, SCOPUS, Google Scholar and Springerlink **
2. Madhumita Sengupta, J. K. Mandal, Sakil Ahamed Khan, “Image Authentication in Frequency domain through G-Let Dihedral Group D3 (IAFD-D3)”, 49th Annual Convention of Computer Society of India (CSI-2014) and for publication in Springer AISC Series - 337, Volume 1, pp 145-152, 2015, conference date 12th – 14th December, 2014 venue- JNTU Hyderabad, ISBN: 978-3-319-13727-8 (Print) 978-3-319-13728-5 (Online). **indexed by ISI Proceedings, EI-Compendex, DBLP, SCOPUS, Google Scholar and Springerlink**

3. Madhumita Sengupta, J. K. Mandal, Arindam Sarkar and Tamal Bhattacharjee, "KSOFM Network Based Neural Key Generation for Wireless Communication", International Conference on Frontiers of Intelligent Computing: Theory and applications (FICTA 2014) at Bhubaneswar, Special Session: Cyber Security and Digital Forensics, Published in Vol. 2, Advances in Intelligent Systems and Computing 328, (AISC-328), pp 207- 215, DOI: 10.1007/978-3-319-12012-6_23, indexed by ISI Proceedings, DBLP, Ulrich's, EI-Compendex, SCOPUS, Zentralblatt Math, MetaPress, Springerlink, 14-15 November 2014.
4. Madhumita Sengupta and J. K. Mandal, "Color image Authentication through Visible Patterns (CAV)", p. 617-625, ICT and Critical Infrastructure: Proceedings of the 48th Annual Convention of CSI - Volume II, Springer International Publishing Switzerland 2014, Advances in Intelligent Systems and Computing (AISC-249), Hosted by CSI Vishakapatnam Chapter, 13th -15th Dec, 2013, DOI: 10.1007/978-3-319-03095-1_67. ** indexed by ISI Proceedings, EI-Compendex, DBLP, SCOPUS, Google Scholar and Springerlink **

Paper Published in International Conference (Other): - 03

1. Madhumita Sengupta and J. K. Mandal, "Image coding through Z-Transform with low Energy and Bandwidth (IZEB)", The Third International Conference on Computer Science and Information Technology (CCSIT- 2013), Bangalore, India, ISSN: 2231 - 5403, ISBN : 978-1-921987-00-7, 18th -20th Feb 2013, DOI: 10.5121/csit.2013.3625, Published in Computer Science Conference Proceedings of AIRCC, "Computer Science & Information Technology(CS&IT)", pp- 225-232, (2013).
2. Madhumita Sengupta, J. K. Mandal, "Self Authentication of color image through Wavelet Transformation Technique (SAWT)". Proceeding of International Conference on Computing and Systems ICCS-2010, ISBN 93-80813-01-5, pp 151-155, University of Burdwan, 19th – 20th November, 2010.
3. Madhumita Sengupta and J. K. Mandal, "Self Authentication of image through Daubechies Transform technique (SADT)", First International Conference on Intelligent Infrastructure, CSI-2012, 47th Annual National Convention, Organised by: Computer Society of India, Kolkata Chapter, Proceedings published by Tata McGraw Hill Education Private Limited, ISBN(13):978-1-25-906170-7, ISBN(10): 1-25-906170-1, pp- 249-252, 1st - 2nd, December, 2012.

Paper Published in National/Zonal Conference (Other): - 06

1. Madhumita Sengupta and j. k. Mandal, "A novel authentication Technique in frequency domain based on G-Let D3 Transformation (ATGT- D3)", National Conference on Computing, Communication and Information Processing (NCCCIP-2015), May 2 - 3, 2015.
2. Madhumita Mallick, Madhumita Sengupta and J. K. Mandal, "Authentication through Hough Signature on G-Let D4 Domain (AHSG – D4)", National Conference on Computational Technologies – 2015 (NCCT'15), North Bengal University, date 20th February, 2015. Published in International Journal of Innovative Research in Information Security. Impact Factor - 1.251
3. Madhumita Sengupta, J. K. Mandal, "Steganography on Thermal Images in Wavelet Domain (STWD)", IETE Zonal Seminar on "ICT in present Wireless Revolution: Challenges and Issues (ICTWR-2013)" Organized By The Institution of Electronics and Telecommunication Engineers, Kolkata Centre, In Association With Techno Group, Salt Lake, Venue : IETE Kolkata Centre, Salt Lake; Date: 30th – 31st August, 2013.

4. Madhumita Sengupta, J. K. Mandal, "Survey on Steganography based on Wavelet Domain", One Day National Seminar on Intellectual Property Rights and Patent Laws, IPRPL-2012, Organized by: The Greater Kolkata College of Engineering and Management, Baruipur, An Unit of JIS Group & JCSS Educational Trust, pp 71 - 77, 25th August, 2012.
5. Madhumita Sengupta and J. K. Mandal, "Ownership Verification in Wavelet Domain (OVWD)", Second National Conference on Computing and Systems (NaCCS 2012), Organized by Dept of Computer Science, University of Burdwan, pp 224 – 228, ISBN: 978-93-80813-18-9, 15th – 16th March, 2012.
6. Madhumita Sengupta, J. K. Mandal, "Authentication in Wavelet Transform Domain through Hough Domain Signature (AWTDHDS)" UGC-Sponsored National Symposium on Emerging Trends in Computer Science (ETCS 2012), Organized by Dept of Computer Science, Barrackpore Rastraguru Surendranath College, ISBN : 978-81-921808-2-3, pp 61-65, 20 – 21 January, 2012.

Paper Published in International Journal: - 06

1. Madhumita Sengupta and J. K. Mandal, "Hough Signature based Authentication of image through Daubechies Transform technique (HSADT)", Computer Society of India, Journal of Computing, Vol. 2 , No. 1, pp- 83-89, 2013.
2. Madhumita Sengupta, J. K. Mandal, "Image Authentication through Z-Transform With Low Energy And Bandwidth (IAZT)" , International Journal of Network Security & Its Applications (IJNSA) of AIRCC, Vol.5, No.5, pp – 43-62, DOI : 10.5121/ijnsa.2013.5504, September (2013), AIRCC Journal, Indexed by Inspec, Google Scholar, EBSCO, CSEB, Scribd, getCITED, DOAJ, pubget, CiteSeerx, .docstoc, pubZone, Ulrichs Web, WorldCat, ProQuest.
3. Madhumita Sengupta and J. K. Mandal, "Wavelet based Authentication/Secret Transmission through Image Resizing (WASTIR)", AIRCC, Signal & Image Processing: An International Journal (SIPIJ), Vol.4, No.2, pp- 59-68, ISSN : 0976 - 710X (Online) ; 2229 - 3922 (print), April 2013, doi : 10.5121/sipij, Indexed by Inspec, Google Scholar, EBSCO, CSEB, Scribd, getCITED, DOAJ, pubget, CiteSeerx, .docstoc, pubZone, Ulrichs Web, WorldCat, ProQuest.
4. Madhumita Sengupta and J. K. Mandal, "An Authentication Technique in Frequency Domain through Daubechies Transformation (ATFDD)", International Journal of Advanced Research in Computer Science (IJARCS), Volume 3 No. 4 (July-August 2012), www.ijarcs.info, pp 236-242, ISSN No. 0976-5697, indexed in: EBSCO HOST, Index Copernicus, DOAJ, Open J Gate, New Jour, Science central, Electronic Journal List, Ulrichs Web, Dayang Journal System.
5. Madhumita Sengupta and J. K. Mandal, "Transformed IRIS Signature fabricated Authentication in Wavelet based Frequency Domain (TISAWFD)", International Journal of Advanced Research in Computer Science (IJARCS), pp 486- 490 , ISSN No.0976-5697, Volume 2, No. 5, Sep-Oct 2011, www.ijarcs.info, indexed in: EBSCO HOST, Index Copernicus, DOAJ, Open J Gate, New Jour, Science central, Electronic Journal List, Ulrichs Web, Dayang Journal System.
6. Madhumita Sengupta, J. K. Mandal and Nabin Ghoshal, "An authentication technique in frequency domain through wavelet transform (ATFDWT), Advances in Modelling Signal Processing and Pattern Recognition (AMSE), vol-54, Issue 2, 2011, Published Journal:2011-Vol.54, No1-2. Paper No 11531(1B), Indexed in the following databases: -IEEE-INSPECT, Stevenage, UK. -Elsevier BV, Amsterdam, The Netherlands. -EBSCO, Villebon-Paris, France. -Institute for Scientific Information, Philadelphia, PA, USA. -Ulrich Periodical Directory, New Providence, NJ, USA. -CSA Beechwood, Beechwood, OH, USA.

Workshops / SDP Attended:

1.	21 st March, 2014	One-day Workshop on “Computational Methodologies and Applications” (CMA-2014), Sponsored by DST-PURSE Scheme, University of Kalyani. Technically sponsored by IEEE Computational Intelligence Society, Kolkata Chapter. Organized by Department of Computer Science & Engineering, University of Kalyani	Participated
2.	June 17 th – 28 th , 2013	AICTE Sponsored Two Week Faculty Development Programme on “Soft Computing Approach in Cryptography” organized by Kalyani Government Engineering College, Dept. of Information Technology	Participated
3.	April 22 nd – 23 rd , 2013	West Bengal State Council of Higher Education-Sponsored Two-day Workshop on “Computational Methodologies and Applications (CMA- 2013)” organized by Dept. of Computer Science and Engineering, University of Kalyani jointly with Department of Computer Science & Technology, Bengal Engineering & Science University, Howrah	Participated and act as Volunteer
4.	April 2 nd – 5 th , 2012	Short- Term Course on “Advance Algorithms and their Applications” organized by Dept. of Computer Science & Engineering, Indian School of Mines, Dhanbad.	Participated
5.	March 26 th – 27 th , 2012	2-day workshop on “Human Centered Design for Successful Products and Services”, Organized by Industry Institute Partnership (IIPC) dept. of CSE, University of Kalyani.	Participated and act as Volunteer
6.	Feb 15 th – 16 th , 2012	2-day workshop on “Use of TNT mips for GIS Application Generation”, Organized by Industry Institute Partnership (IIPC) dept CSE, University of Kalyani.	Participated and act as Volunteer
7.	30 th Jan – 10 th Feb, 2012	AICTE Sponsored Two Weeks Staff Development Program on “Optimization of Decision Tools using Soft Computing Models & MATLAB”	Participated
8.	July 16 th – 17 th , 2011	2-day tutorial workshop on “Cryptology” organized by University of Calcutta & Indian Statistical Institute, Kolkata.	Participated
9.	3 rd June, 2011	Tutorial session “Towards 4G wireless Systems (WIMAX & LTE)BR/wireless Sensor Network/Free Open Source Software” Organized by MIT, Anna University, Chennai, India.	Participated
10.	10 th -11 th Feb, 2009	Workshop on “Microcontrollers & Embedded Systems” organized by the Department of Electrical Engineering, Kalyani Govt. Engg. College.	Participated

Experience: -

1. Currently working in Indian Institute of Information Technology, Kalyani as Assistant Professor, from 4.08.2015.
2. I have an experience as a Faculty of NIIT Barasat Centre [from 7th Feb, 2006 to 7th Nov 2007]. I am NIIT certify Faculty for "Common Foundation Semester" and "English For Excellency" courses.

3. Part-time Guest Lecturer of “Sarojini Naidu Centre for Women's” [from 6th Jan, 2010 to June 2010].
4. I worked with IKON (work centre of IGNOU) as a Guest Lecturer, [from 1st Jan, 2008 – 23rd Aug, 2010].

Additional Qualification: -

1. Sangeet Bhushan Part I (1st Year) ----- First Division
2. Prarambhik Part II ----- Second Division

Membership Details

1. Member of URIVI VIKRAM Charitable Trust ----- Membership No: - A05864
2. ISI Member ----- Membership No: - O/9236
3. CSI Life Member ----- Membership No: - 01174334
(Member of Managing Committee, CSI, 2015-2016)

Personal Information: -

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24 Pargs (North) Po- Bengal Enamel
Pin code: - 743122
PHONE NUMBER: - (033)-25923785
MOBILE NUMBER: - 9432145902
DATE OF BIRTH: - 25th may, 1982
NATIONALITY: - Indian
LANGUAGE KNOWN: - English, Hindi, Bengali
STATUS: - Unmarried.

Affirmation: - I hereby, want to say that, the above information given in this document is correct as per my knowledge and familiarity. I am very glad to give any information about myself, which is required for your organization on the time of interview.

Date: 7th December, 2015



(MADHUMITA SENGUPTA)