Bio Data

**Name:** **DR.** **JYOTSNA KUMAR MANDAL**.

**Designation:** Professor of Computer Science & Engineering & Ex- Dean,

Faculty of Engineering, Technology & Management, Kalyani University.

**Permanent address**: Flat A 502, Fifth Floor, Green Valley Housing,

 Chiriamore, Kaikhali, Kolkata 700136, India,

 Ph. 033-25736302.

**Mailing address**: Department of Computer Science & Engineering

Kalyani University, Kalyani, Nadia, West Bengal, Pin - 741235,

E-mail: jkm.cse@gmail.com jkmandal@ieee.org, jkmandal@klyuniv.ac.in, jkmandal@rediffmail.com

Mobile No. 9434352214, Fax: 033-25809617

**Website:** <http://jkmandal.com>, **University site**: www.klyuniv.ac.in

**Educational qualifications:**

**Degree/ Subject Class/Div %of University**

 **Year Marks**

 Graduation B.Sc.(Hons) II 56.75 University 1983 in Physics of Burdwan

 Post M.Sc. in I 65.70 Jadavpur

 Graduation Physics University

 1986

Technological M.Tech in I 75.25 University

 Degree Computer Sc. of Calcutta

 1987

Ph. D.(Engg.) Computer Engg. Jadavpur 2000 University

**Details of employment:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Institution** | **Designation** | **Period** | **Nature of Duties** | **Scale of** **Pay(Rs.) pay(RS.)** |
| Mishanti En gineers (P) Ltd.Calcutta | Trainee | 16.11.87 to 31.08.88 | Software development | Consl. 1500 pm |
| NERIST Arunachal Pradesh | Lecturer | 06.09.88 to10.08.89 | Teaching of Diploma &B. Tech. | 2200-4000 |
| Centre for Atms.Sc.in Proj,Study Norwesters | Programmer | 16.08.89 to09.07.90 | Design data base, Software development etc. | 2200-4000 |
| North Bengal University | Lecturer | 11.7.90, 16.9.98 | Teaching of MCA & DCA  | 2200-4000 |
| North Bengal University | Reader | 17.9.98 to 15.03.2005 |  Teaching of MCA M. Phil (Rs. & GIS)& DCA | 12,000-18,300 |
| Kalyani Government Engineering College | Professor (open post through Public Service Commission, West Bengal) | 16.03.2006 to 27.03.2007 | Teaching of M. Tech, M.C.A and B. Tech | 16,400-22,400 |
| Kalyani University | Professor(Open Post) | 28.03.2007 to till date | Teaching of M. Tech, M.C.A and B. Tech | 37,000-67,000 |

**Qualification:** M. Tech. in Computer Science(CU), Ph. D (Engineering (Jadavpur University)).

**Title of the Ph. D Thesis:** ***An Approach Towards Development of Efficient Data Compression Algorithms and Correction Techniques.***

**Teaching & Research Experience:** 28 years

**Member of Professional Bodies:**

IEEE Associate member(2013):92557072

 ACM Associate member(2012): 2006735

 CSI Life member (1992):16278

 CRSI Life member(2009):L/330

 AIRCC Member (2011):128572

 IETE Fellow(life)(2012):F232495

 Executive Committee member of CSI Kolkata Chapter

 Executive Committee member of IETE, Kolkata Section

 Regional Student Coordinator, Region II, CSI, 2014-2016

**Area of Research**:  Coding Theory, Data and Network Security, Remote Sensing & GIS based Applications, Data Compression Error Corrections, Information security, Watermarking, Steganography and Document Authentication, Image Processing, Visual Cryptography, MANET, Wireless and Mobile Computing/security, Unify Computing, Chaos Theory and Applications

**Supervision of Ph. D:**

* No. of candidate awarded: 14 (Eight in Computer Science & Engineering and three in Computer Science)
* No. of candidate submitted thesis: 3
* No. of candidate registered for Ph. D: 8(Computer Science & Engineering )
* No. of candidate enrolled for Ph. D: 4 (Computer Science & Engineering )

**Awards received:**

* + A warded A. M. Bose Memorial Silver medal for securing highest marks in the paper “Nuclear Physics and Cosmic Rays” at M. Sc. And Kali Prasanna Dasgupta Memorial Silver medal for securing highest marks in the paper “Nuclear Physics and Cosmic Rays” at M. Sc.
	+ India International Friendship Society (IIFS) New Delhi conferred “Bharat Jyoti Award” for meritorious services, outstanding performances and remarkable role in the field of Computer Science & Engineering on 29th August, 2012.
* The International Publishing House, Delhi, India conferred “The Best Citizen of India Award 2012” in November 2012.
* Biography in Marquis Who’s Who in the World 2014(31st Edition), USA (published in November 2013)
* Chapter Patron Award, CSI Kolkata Chapter, 2014 conferred in CSI Annual Convention, JNTU, Hyderabad during 14-16 December, 2014

**Total Number of publications**: **359**

**Citations:**

**Average Impact Factor (CSSP(1.264)+IJCSA(1.324)/2)=1.294: h Index 6(Scopus)**

* **Google Scholar** **Citation**: Document 274, Citation 964, h-index 14, i10-index 26 **(**[**http://scholar.google.com/citations?hl=en&user=NIlye4UAAAAJ&view\_op=list\_works&pagesize=20**](http://scholar.google.com/citations?hl=en&user=NIlye4UAAAAJ&view_op=list_works&pagesize=20))
* **Research Gate**: Document 119, citation 215

**(**https://www.researchgate.net/profile/Jyotsna\_Mandal/)

* **Scopus Citation:** Document 123, Citation 122, h-index 6

**(** http://www.scopus.com/authid/detail.url?authorId=24605629500)

**Book Published by International Publisher: 5 (**[http://www.amazon.com/s/ref=ntt\_athr\_dp\_sr\_2?\_encoding=UTF8&field-author=J.%20K.%20Mandal&search-alias=books&sort=relevancerank](http://www.amazon.com/s/ref%3Dntt_athr_dp_sr_2?_encoding=UTF8&field-author=J.%20K.%20Mandal&search-alias=books&sort=relevancerank))

* + - * ***Title:******Algorithmic Design of Compression Schemes and Correction Techniques – A Practical Approach****,* ***Publisher:*** *LAP- Lambert Academic Publishing, ISBN: 978-3-8433-9274-7, January 2011(Author- J. K. Mandal) (*[http://www.amazon.com/s/ref=ntt\_athr\_dp\_sr\_2?\_encoding=UTF8&field-author=Jyotsna%20Kumar%20Mandal&search-alias=books&sort=relevancerank](http://www.amazon.com/s/ref%3Dntt_athr_dp_sr_2?_encoding=UTF8&field-author=Jyotsna%20Kumar%20Mandal&search-alias=books&sort=relevancerank))
			* ***Title:******Symmetric Encryption – Algorithm, Analysis and Applications:Low Cost based Security****,* ***Publisher:*** *LAP- Lambert Academic Publishing, ISBN: 978-3-8454-2061-5, October 7, 2011(Author-P.K. Jha and J. K. Mandal)*
			* ***Title:******Steganographic Techniques and Application in Document Authentication – An Algorithmic Approach****,* ***Publisher:*** *LAP- Lambert Academic Publishing, ISBN: 978-3-8454-2919-9, August 30, 2011(Author- J. K. Mandal (Co-author) et al)*
			* ***Title:******Optimization based Filtering of Random Valued Impulses – An Algorithmic Approach, Publisher:*** *LAP- Lambert Academic Publishing, ISBN: 978-3-8473-7275-2, February 13, 2012 (Author-Somnath Mukhopadhyay and J. K. Mandal)*
			* ***Title:*****Artificial Neural Network Guided Secured Communication Techniques: A Practical Approach*, Publisher:*** *LAP- Lambert Academic Publishing, ISBN: 978-659-11991-0, June 4, 2012 (Author-Arindam Sarkar and J. K. Mandal)*

**Technical Details of Ph. D Awarded (Thirteen Scholars):**

1. Ghosh Alok, Principal, Future Institute of Technology & Management, Kolkata,”Towards Design and Implementation of An Approach on CMM(Capability Maturity Model) for the Quality Performance Measurement of Manufacturing Industries, Ph. D.(Engg.), Department of Computer Science & Applications, University of North Bengal, 2004
2. Mal, Satadal, Professor, Department of Electrical Engineering, Kalyani Government Engineering College, Kalyani, Nadia-741235, India, “Development of Microprocessor Based Encoders for Secured Transmission”, Ph. D.(Engg.), Department of Computer Science & Applications, University of North Bengal, 2004
3. Dutta, Saurabh, Professor & Head, Computer Applications, Dr. B. C. Roy Engineering College, Durgapur, West Bengal, India,”An Approach Towards Development of Efficient Encryption Techniques”, Ph. D.(Science), Department of Computer Science & Applications, University of North Bengal, 2005
4. Jha, Pawan, Associate Professor, Department of Computer Science & Technology, Purbanchasl University, Biratnagar, Nepal, “An Approach Towards Design and Implementation of Symmetric Encryption Techniques” Ph. D.(Science), Department of Computer Science & Applications, University of North Bengal, 2008
5. Sinha, Sarad, Assistant Professor, Department of Computer Science & Applications, University of North Bengal, Dist. Darjeeling, West Bengal, India, ”An approach Towards Design and Implementation of Microprocessor Based Cryptosystems for secured Transmission”, Department of Computer Science & Applications, University of North Bengal, 2008
6. Sarkar Souvik, Vice Principal, R.K.M Residential College, Narendrapur, Kolkata 700103, “Application of Soft Computing Tools for Better Nanodevice Modeling and their Application in Digital Circuits”, Department of Computer Science & Engineering, University of Kalyani, submitted on August 31st, 2009(Report Accepted(Ref. No. Ph.D/BRS/Engg. Tech. Mang./2010, dated 15.02.2010 at 1 pm. In the BRS). Awarded on 03rd March,2010.
7. Das Swarup, Asistant Professor, Department of Computer Science & Applications, University of North Bengal, Dist. Darjeeling, West Bengal, India,”An approach Towards Design of a GIS-Anchored Decision Support System for Tea Management”, Department of Computer Science & Applications, University of North Bengal, awarded on May, 2010.
8. Ghoshal Nabin, Scientific Officer, Department of Engineering & Technological Studies, University of Kalyani, Title:”Towards Design and Implementation of Image Authentication/Secrete Message Transmission Technique using Steganographic Approach” submitted for Ph. D.(Engg.), Department of Computer Science & Engineering, University of Kalyani, Submitted January 18th, 2011, awarded on July 4, 2011.(Ref. No. Ph. D./Comput. Sc. & Engg./NG/72/2011, dated 06.07.2011).
9. Som Subhranil, Assistant Professor, Department of Computer Application, JIS College of Engineering, Kalyani, West Bengal, Title: “Towards Design and Implementation of Cryptographic Techniques for Secured Transmission” submitted for Ph. D.(Engg.), Department of Computer Science & Engineering, University of Kalyani, December, 2011, awarded 3rd. September, 2012.
10. Haldar, Prasun, Assistant Professor, Department of Information Technology, Jalpaiguri Government Engineering College, Jalpaiguri, West Bengal: “**Towards Design and Implementation of GIS Based Tools and Techniques for Various Applications**” submitted for Ph. D.(Engg.),Department of Computer Science & Engineering, University of Kalyani, March 28, 2014.
11. Pal, Manas, Assistant Professor, Department of Computer Applications, JIS Engineering College, Kalyani, West Bengal, India, “**Design and Implementation of Security Systems using Cipher Block Chaining(CBC) Mode**” awarded for Ph. D.(Engg.),Department of Computer Science & Engineering, University of Kalyani, September, 26 2014.
12. Sarkar, Arindam, Senior Research fellow, DST INSPIRE, University of Kalyani, Kalyani, Nadia 741235, India, “**Towards Design and Implementation of Soft Computing based cryptographic techniques for Wireless Communication**” submitted for Ph. D.(Engg.), Department of Computer Science & Engineering, University of Kalyani, November, 28 2014, awarded on July, 9th , 2015.
13. Mukhopadhyay, Somnath, Senior Research fellow, DST PURSE , University of Kalyani, Kalyani, Nadia 741235, India, “**Estimation, Suppression and Optimization of Impulses in Digital Imagery**”,Department of Computer Science & Engineering, University of Kalyani, submitted for Ph. D.(Engg.),November, 12 2014, Awarded, July 20, 2015.

**Technical Details of Ph. D Thesis submitted(Three Scholars):**

1. Sengupta, Madhumita, Senior Research fellow, University Research Scholar(URS), University of Kalyani, Kalyani, Nadia 741235, India, “**Towards Design and Implementation of Discrete Transform Image Coding based Document Authentication Techniques**” submitted for Ph. D.(Engg.), Department of Computer Science & Engineering, University of Kalyani, February, 26 2015.

**Industrial Research Collaboration:**

Research collaboration leading to Ph. D. in the field of Network Encryption with Logitech Engineering and Design India Pvt. Ltd.

**Collaborative Research/ Joint Supervision:**

1. Prof. Harjinder Singh Lallie, Senior Teaching Fellow – Cybersecurity, International Digital Laboratory (WMG), The University of Warwick, Coventry, CV47AL, [www.warwick.ac.uk](http://www.warwick.ac.uk), <https://digital.warwick.ac.uk/E-Security/>
2. Dr. S. Sarkar, Professor, Department of Electronics, Jadavpur University.
3. Dr. S. Mal, Professor, Department of Electrical Engineering, Kalyani Government Engineering College.
4. Dr. Subarna Shakya, Department of Computer Science & Electronics Engineering, Tribhuban University, Kathmandu , Nepal.
5. Dr. Pawan Kumar Jha, Department of Computer Science & Engineering, Purbanchal University, Nepal.
6. Dr. Sripati Mukherjee, Professor, Department of Computer Science, University of Burdwan
7. Dr. Paramartha Dutta, Professor, Department of Computer & System Science, Visva Bharati, West Bengal
8. DR. Jimson Mathew, Research Assistant, Department of Computer Science, University of Bristol, merchant Venturers Building, Woodland Road, Bristol BS8 IUB UK, Ph +44 11795-45112, Fax.: +44 11795405208, Mail: jimson@cs.bris.ac.uk;mathew.jimson@gmail.com, Link: www.bris.ac.uk/engineering/people/jimson-mathew/index.html
* **No. of International Scholar:** 1(in Science):Degree awarded on 07.07.2008

The Scholar worked under SARC Collaborative Research Scheme with fellowship from UGC Nepal and Registered at University of North Bengal under the permission of Government of India.

**AICTE Project Completed / Ongoing:**

* Modernization of Laboratory Facility(2000-2002) – Rs. 7 Lakes
* Microprocessor Based Encoder for Secured Transmission(2002-2005) –

Rs. 2 Lakes

* GIS Anchored Integrated Plantation Management: Tea( 2004- 2007) –

Rs. 9.8 Lakes.

* IIPC Cell - AICTE, Govt. of India (April 2009 to March 2012) – Rs. 10.00 Lakhs
* MIT, Govt. of West Bengal, Basic Computer Training of School Teachers (July, 2010 to March, 2011) – Rs. 4 Lakhs.

**Edited Volumes as Volume Editor**

1. Second International Conference on Computer and Communication Technologies, IC3T, 2015, CMR Technical Campus, Hyderabad, 24-26 July 2015, member of Editorial Board of the proceedings Published Advances in Intelligent Systems and Computing(AISC 379,380,381), Springer Verlag, Switzerland

Vol 1

Vol 2

Vol 3

1. International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2014, 14-15 November,2014 at Bhubaneswar Engineering College, Bhubaneswar member of editorial Board of the Proceedings published -Advances in Intelligent Systems and Computing(AISC), Springer Verlag, Switzerland Link: [*https://books.google.co.in/books?isbn=3319120123*](https://books.google.co.in/books?isbn=3319120123), 2014
2. Computational Intelligence in Data Mining (Published by Springer Volume 1 & 2), ICCIDM, Department of Computer Science and Engineering, Veer Surendra Sai University of Technology (VSSUT), Burla, Sambalpur – 768018, Odisha, India, 20-21 December 2014, **Smart Innovation, Systems and Technologies, Springer** as Program Co-Chair & Editor. Link: Volume I:<http://link.springer.com/book/10.1007/978-81-322-2205-7> Volume II: <http://link.springer.com/book/10.1007/978-81-322-2208-8> Volume III: <http://link.springer.com/book/10.1007/978-81-322-2202-6>, 2014
3. Emerging ICT for Bridging the Future - Proceedings of the 49th Annual Convention of the Computer Scoiety of India CSI Volume 1 & 2, CSI 2014, 14-16 December, 2014 at JNTU Hyderabad as Program Chair and member of Editorial Board of the Proceedings to be published -**Advances in Intelligent Systems and Computing(AISC), Springer Verlag,** Switzerland. Link: [*https://books.google.co.in/books?isbn=331913728X*](https://books.google.co.in/books?isbn=331913728X), 2014
4. Information Systems Design and Intelligent Applications Proceedings of Second International Conference INDIA 2015, Volume 1 and Volume 2, Smart Innovation, Systems and Technologies, Springer, as Program Chair, Publication Chair,8-9 January,2015, Kalyani University Vol 1: <http://link.springer.com/book/10.1007/978-81-322-2250-7>; Vol 2: <http://link.springer.com/book/10.1007/978-81-322-2247-7>., 2014
5. Guest Editor of ‘Microsystem Technologies of Springer', publishing special issue from extended version of “1st International conference on 'Microelectronics, Circuits and Systems”, Micro-2014 from 11th to 13th July in Hotel Hayat, Kolkata, India. 2014.
6. West Bengal Council of Higher Education Sponsored Two days workshop on Computational Methodology and Applications(CMA) on 22-23 April 2012 at CSE, KU, 2012.
7. The Institution of Electronics and Telecommunication Engineers, Kolkata Center organized two days Zonal Seminar on ICT in Present Wireless Revolution: Challenges and Issues, 30-31st August, 2013, as Program Chair and Editor of the Proceedings with ISBN No. 978-93-5126-699-0., 2013.
8. Two days International Conference on Computational Intelligence: Modeling, Technique and Applications Department of Computer Science & Engineering, Kalyani University, Kolkata organized two days International Conference on Computational Intelligence: Modeling, Technique and Applications, 27-28th September, 2013, as Program Chair Coordinator and Editor of the Proceedings ELSEVIER, Science Direct has published the proceedings of CIMTA - 2013 which is available on: <http://www.sciencedirect.com/science/journal/22120173/10>, 2013.
9. Guest Editor of CSI Journal of Computing, Vol. 2 , No. 1: <http://www.csi-india.org/journal-of-computing> (<http://www.csijournal.org/luitdox-saas/publications/Editorial-2-1-57-57.pdf> ), 2013.
10. Chief Editor, Advanced Computing : An International Journal, ISSN:2229-6727[online]; 2229-726X[print] of AIRCC.
11. Chief Editor, Proceedings of International Conference on “Intelligent Infrastructure” under CSI-2012([www.csi-2012.org](http://www.csi-2012.org)) organized by CSI on the eve of CSI Annual Convention, 2012.
12. Chief Editor, Proceedings of ETCS 2012, organized by Dept. of CSE, Rastraguru Surendranath College, Barrackpur, February 2012.
13. Chief Editor, Proceedings of NIDS-98 of CSI organized by CSI Siliguri Chapter, CSI Networking Division at Darjeeling Gimkhana Club 1998.
14. Chief Editor,Proceedings of ERC-95, Organized by CSI Siliguri Chapter and CSI Eastern Region at Siliguri in 1995.

**M. Phil Dissertation Completed:** 3 (North Bengal University) + 1 (Annamalai University, 2008)

**M. Tech Dissertation Completed:46**(Two from KU and two from Kalyani Govt. Engg. College in 2008, three from KU 2009, two from KU and two from KGEC in 2010. One from CU in 2011, three from KU 2011, One from CU in 2012, four from KU 2012, Two from KU, One from KGEC,2013, one from Tripura University, four from KGEC,two from KU,2014, three from KU,2015, three from KGEC 2015)

**MSC (CS) Dissertation Completed:** (Four from WBSU, Two from VU):06(2012)

**M. Tech Dissertation Started: 3**(KU),3(KGEC) (2014)

**MCA Dissertation Completed:** More than eighty(Since 1990)

**B. Tech.(CSE/IT) Dissertation Completed:10(**Two from KGEC in 2013**)**

**MCA Dissertation started:** (-) (2013)

**MSC (CS) Dissertation started:**

**Special activities in Last Three years(2010-2012):**

 **Chairing Sessions in Conferences:** 23 sessions in seven conferences

 **Expert/Invited Lecture delivered:** 38

 **Conference attended:** 40

 **Expert Lecture as guest faculty: 4** x 5 days at Tripura University

 **Organizing Workshop: 18** Workshop/Seminar

 **Bok Published: 05**

**Special activities in 2015:**

**Chairing Sessions in Conferences:** Seven sessions in six Conference(s)

1. Second International Conference on Computer and Communication Technologies, IC3T, 2015, CMR Technical Campus, Hyderabad, 24-26 July 2015
2. Micro, 2015, Hotel Peerless Inn, Esplanade, Two sessions in two days during 11-12 July 2015.
3. Seminar on the occasion of “Digital India Week” on 7th July.2015, University of Kalyani.
4. National Conference on Computing, Communication and Information Processing (NCCCIP-2015), sponsored by All India Council for Technical Education (AICTE), New Delhi under North East Quality Improvement Program (NEQIP) and it is technically sponsored by Computer Society of India (CSI) Kolkata Chapter, May 2-3, dept. of CSE, NERIST, Itanagar, Arunachal Pradesh.
5. National Conference on Computational Technologies 2015(NCCT’15), 20th February, 2015, Department of Computer Applications, North Bengal University
6. AICTE Sponsored National Conference at Kalyani Govt. Engg. College, 5-6 January 2015.

**No. of Expert/Invited Lecture delivered: 11**

**Conference attended:** 6

**Expert Lecture: 11**

1. “Chaos based security and authentication in public domain Networks”, Second International Conference on Computer and Communication Technologies, IC3T, 2015, CMR Technical Campus, Hyderabad, 24-26 July 2015, AISC Springer.
2. “Fundamentals of Image Processing in MatLab”, MATLAB Application in Engineering Educations, West Bengal State Council of Technical Education assisted Faculty Development program for Polytechnique College Teachers organized by MCKV institute, Howrah, 6th July 2015.
3. “Chaos based Security and Authentication in public domain Communication, Staff Development program of “Opportunistic Social networks, 29th June to 4th July, 2015, KGEC, Kalyani, 29th June 2015
4. “ANN based Security in Wireless Communications“, International Conference on Nano-electronics, Circuits & Communications Systems (NCCS 2015) on 9th and 10th May 2015 at ARTTC, BSNL, near Jumar River, Hazaribag Road, Ranchi organized by IETE & ISVE Ranchi Centre, 9th May, 2015
5. “Adaptive Image Encryption based on Chaos”, National Conference on Computing, Communication and Information Processing”, sponsored by AICTE-NEQIP , May 2-3, 2015, CSE, NERIST, Arunachal Pradesh.
6. “Chaos based Image Authentication”, One day Seminar on “Current Trends in Image Processing” organized by Ramakrishna Mission Residential College(autonomous), Sarsuna College, in collaboration with Computer Society of India, Kolkata  Chapter, 11th April, 2015 (Saturday).
7. “Chaos based Security and Authentication in Communication”, “One day Workshop under TEQIP II Programme” organized by MCKV Engineering College, Howrah,4th April, 2015.
8. “Information Security and quality Assurance”, “NAAC Awareness Workshop” organized by Internal Quality Assurance Cell(IQAC), Vidyasagar University, Midnapur,1st and 2nd April, 2015.
9. **“**Internet Technology and Image Processing in Open Source”, UGC Sponsored Orientation Program conducted by Academic Staff College, Burdwan University, March, 17, 2015.
10. “Chaos based Image Authentication”, National Conference on Computational Technologies 2015(NCCT’15), 20th February, 2015, Department of Computer Applications, North Bengal University, 2015.
11. Security and Authentication using Chaos Theory, AICTE Sponsored National Conference at Kalyani Govt. Engg. College, 5-6 January 2015.

**Organizing Workshop/Conference**

1. Second International Conference on Computer and Communication Technologies, IC3T, 2015, CMR Technical Campus, Hyderabad, 24-26 July 2015, member of Editorial Board of the proceedings Published Advances in Intelligent Systems and Computing(AISC 379,380,381), Springer Verlag, Switzerland., as Editorial Board.
2. The National Conference on Computing, Communication and Information Processing (NCCCIP-2015) sponsored by All India Council for Technical Education (AICTE), New Delhi under North East Quality Improvement Program (NEQIP) and technically sponsored by Computer Society of India (CSI) Kolkata Chapter was held successfully during 2-3 May 2015 at North Eastern Regional Institute of Science & Technology (NERIST), A Deemed University under MHRD Govt. of India, Nirjuli, Arunachal Pradesh., as Publication Chair.
3. Regional Student Convention 2015, CSI Kolkata chapter, CSI and NIT Agarpara as National Student Coordinator,Region II, Computer Society of India on 14th march 2015 at NIT, Agarpara.
4. INDIA 2015, 8-9 January, Kalyani University, As Program Chair and Organizer, AISC Springer.

**Special activities in 2014:**

**Chairing Sessions in Conferences:** Nine sessions in eight Conference(s)

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1. EAIT 2014, CSI Kolkata Chapter, December 21-23, 2014
2. International Conference Computational Intelligence in Data Mining (Published by Springer Volume 1 & 2), ICCIDM Department of Computer Science and Engineering, Veer Surendra Sai University of Technology (VSSUT), Burla, Sambalpur – 768018, Odisha, India, 20-21 December 2014.
3. Third International Conference, FICTA 2014, Bhubaneswar, Novemer 14-15, 2014
4. Eleventh International Conference on Wireless and Optical Communication networks, WOCN2014, 11th, 12th and 13th of September 2014, Koneru Lakshmaiah University,Vijayawada, Andhra Pradesh, INDIA
5. First National Conference on Microelectronics, Circuit & Syatem Design(Micro-2014), 11-13th July, 2014, HOTEL HYATT REGENCY, Salt Lake, Kolkata, two sessions,2014.
6. First National Conference on Research Trends in Computer Science & Application (NCRTCSA – 2014), at SIT, Siliguri, on 08.02.2014
7. Second International Conference on Business and Information Management(ICBIM-2014),  9th January to  11th January, NIT Durgaour, West Bengal, 2014 on 10th January, 2014
8. International Conference on Control, Instrumentation, Energy & Communication (CIEC14), Jan 31- Feb 02, 2014, Department of Applied Physics, University of Calcutta, 1C “Computational Techniques & Expert Systems” track on Jan 31, 2014 at 11:45 AM.

**No. of Expert/Invited Lecture delivered:12**

**Conference attended:** 12

**Expert Lecture:**

1. Talk on “Networking”, at “Reaching Out” program to the school children organized by CSI Kolkata Chapter and Sundarban Unnayan Nigam, at High School, Gosaba, Sundarban on 19.7.14
2. Talk on“Digital Systems and Networking”, at “Reaching Out” program to the school children organized by CSI Kolkata Chapter and Sundarban Unnayan Nigam, at Kalidanga High School, Basanti, Sundarban on 5.7.14
3. Invited talk on “Chaos based Security and Authentication”, Computational Intelligence in Data Mining (Published by Springer Volume 1 & 2), ICCIDM Department of Computer Science and Engineering, Veer Surendra Sai University of Technology (VSSUT), Burla, Sambalpur – 768018, Odisha, India, 20-21 December 2014.
4. Invited talk on, “ANN based Cryptographic Techniques in Wireless Communications”,“Eleventh International Conference on Wireless and Optical Communications Networks WOCN2014 Next Generation Internet 11th, 12th and 13th of September 2014, Vijayawada, Andhra Pradesh, INDIA(<http://www.wocn2014.org>), on 11.09.2014, 2014
5. Expert Lecture on “Computer Science Honours Curriculum”, At the Department of Computer Science, University of Burdwan on 6.8.2014.
6. Expert Lecture on “Image and Document Authentication and their use in Life Sciences”, Staff Development Programme conducted by the Department of Botany, University of Kalyani on 30.6.2014
7. Invited talk on “State-of-the-art Invisible Communication for Authentication”, First National Conference on Microelectronics, Circuit & Syatem Design(Micro-2014), 11-13th July, 2014, HOTEL HYATT REGENCY, Salt Lake, Kolkata, on12.07.2014
8. Invited Talk on “Security & Authentication of Documents”, in the Workshop on Document Security and Telecom networking, at Techno Salt Lake Campus, on 29.03.2014
9. Invited Talk on “Steganography”, in the National Conference on Research Trends in Computer Science & Application(NCRTCSA – 2014), at SIT, Siliguri, on 08.02.2014.
10. Invited Talk on “Security and Authentication of Documents”, in the IETE Student Day at IETE, Kolkata, on 01.02.2014
11. Invited Lecture on “Data Authentication using Digital Signature and watermarking” in the Seminar of Haripal Vivekananda Mahavidyalaya, Haripal on 11.01.2014.
12. Invited Talk on “Authentication of legal Documents using Steganography” in the Seminar of Student day Celebration, IETE on 1.02.2014.

**Organizing Workshop/Conference:**

1. NMEICT Microsoft Saksham Programme on Teachers’ Empowerment at Kalyani University under the Directorate of IQAC, Kalyani University during 24 November to 29th November 2014, where twenty four faculty members from various departments of the University participated for their upgradation of skills on Microsoft Office Management Software.
2. International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2014, 14-15 November,2014 at Bhubaneswar Engineering College, Bhubaneswar- as Program Chair and member of editorial Board of the Proceedings to be published -**Advances in Intelligent Systems and Computing(AISC), Springer Verlag,** Switzerland
3. Computational Intelligence in Data Mining (Published by Springer Volume 1 & 2), ICCIDM, Department of Computer Science and Engineering, Veer Surendra Sai University of Technology (VSSUT), Burla, Sambalpur – 768018, Odisha, India, 20-21 December 2014, **Smart Innovation, Systems and Technologies, Springer** as Program Co-Chair & Editor of the Volomes.
4. Emerging ICT for Bridging the Future - Proceedings of the 49th Annual Convention of the Computer Scoiety of India CSI Volume 1 & 2, CSI 2014, 14-16 December, 2014 at JNTU Hyderabad as Program Chair and member of Editorial Board of the Proceedings to be published -**Advances in Intelligent Systems and Computing(AISC), Springer Verlag,** Switzerland.
5. Information Systems Design and Intelligent Applications Proceedings of Second International Conference INDIA 2015, Volume 1 and Volume 2, Smart Innovation, Systems and Technologies, Springer, as Program Chair, Publication Chair,8-9 January,2015, Kalyani University

**Book Published:**

**Program Committee Member:**

**Expert/Invited Lecture delivered**

**Special activities in 2013:**

 **Chairing Sessions in Conferences:** Six Sessions in six Conferences

1. 100th Indian Science Congress(3-7th January) on 6th January 2013, Session Chair in the Session, “Green Computing” at Salt Lake Campus of Calcutta University.
2. The Third International Conference on Computer Science & Information Technology (CCSIT-2013), Session 3, on 19-02-13, Royal Orchid Central, Bangalore.
3. UGC Sponsored National Conference on “Soft Computing based Security in data Communication”, Dept. of Computer Science, Gourbanga University, Malda, on 7th December, 2013.
4. International Conference on “Computins Systems, Computer Science, Burdwan University, Burdwan, 22nd September 2013
5. “Recent Trends in Information Technology” organized by the Dept of IT, College of Engg. & Management, Kolaghat in Technical collaboration with the Dept of CSE, University of Kalyani, on 26.10.2013
6. International Conference on “Critical Infrastructure” CSI-2013, Visakhapatnam, 13th December 2013

 **Expert/Invited Lecture delivered:** 14

 **Conference attended:** 14

**Lecture as Visiting Professor:** 5 days at Dept. of CSE, Tripura University on Mobile Computingduring 26.4.13-30.4.13

1. **Organizing Workshop/Conference: Four**
	1. West Bengal Council of Higher Education Sponsored Two days workshop on Computational Methodology and Applications on 22-23 April 2012 at CSE, KU where 84 joined in the workshop.
	2. The Institution of Electronics and Telecommunication Engineers, Kolkata Center organized two days Zonal Seminar on ICT in Present Wireless Revolution: Challenges and Issues, 30-31st August, 2013, as Program Chair and Editor of the Proceedings with ISBN No. 978-93-5126-699-0.
	3. Department of Computer Science & Engineering, Kalyani University, Kolkata organized two days International Conference on Computational Intelligence: Modeling, Technique and Applications, 27-28th September, 2013, as Program Chair Coordinator and Editor of the Proceedings ELSEVIER, Science Direct has published the proceedings of CIMTA - 2013 which is available on: <http://www.sciencedirect.com/science/journal/22120173/10>
2. A special session has been conducted in International Conference “Critical Infrastructure in CSI-2013 Student Convention, Visakhapatnam, 11-15 December 2013 out of which the proceedings was published by the **Advances in Intelligent Systems and Computing, Springer Verlag,** Switzerland

 **Book Published:**

**Program Committee Member:** CCSEIT-2013,CCSIT-2013,CIMTA-2013, CoNeCo-2013, CSIA-2013, DBDM-2013, DMS-2013, ICACC2013, ICCS2013, ICCSEA-2013, ISED-2013, ITCSE-2013, P2PTM-2013, PDCTA-2013, SCAI 2013, SCOM 2013, SEA 2013, SIPP 2013, SPPR 2013,WeST 2013, WIMON 2013

**Invited Lectures 2013**

1. Invited Talk in the workshop “Sisu Vigyan Utsav”, on “How to Teach Computer Science in Schools”, 6th January, 2013 at DNM Boys School, Jadavpur.
2. Lecture/panel discussion in 5-days Workshop on “Design and Implementation of Diploma Curricula for the State of Arunachal Pradesh”, at NITTTR, Kolkata during 7-11 January, 2013.
3. Interactive Expert Lecture through Video conferencing at Video Conf. Lab of NITTTR, Kolkata on the topic "Internetworking: Concepts, principle and application", using ICT Mode through AVIEW Software on 14.02.2013 at NITTTR, Kolkata.
4. Expert Lecture in the Refresher Course at Burdwan University on 06.03.2013, Topic “Mobile Computing – Technology and Applications”.
5. Invited Talk in one day Seminar on “Advance Computing and Communication” sponsored by TEQIP-II, organized by Computer Science and Engineering Department, Narula Institute of Technology, Agarpara, Kolkata on 09.04.2013.
6. Expert Lecture for the Ph. D. Students of department of Computer Science, West Bengal State University, Barasat on 09-04-2013, topic: “Recent Trends of Security in Communication”
7. Expert Lecture at NITTTR, Kolkata on the topic "Security of Mobile IP Networks", in Staff and Teachers’ Training Program on 14.06.2013.
8. Expert Lecture at Kalyani Govt. Engineering College,Kalyani on the topic "Soft Computing based Security", in AICTE Sponsored Staff and Teachers’ Training Program on 19.06.2013
9. Expert Lecture in TEQIP Sponsored Faculty Development Program “Advances in Computer Science & Information Technology” at NERIST, Itanagar on the topic “Network and Data Security” on 26.08.2013
10. Expert Lecture in TEQIP Sponsored Faculty Development Program “Advances in Computer Science & Information Technology” at NERIST, Itanagar, on the topic “Remote Sensing and GIS Applications” on 26.08.2013
11. Keynote Lecture in inaugural Session of TEQIP Sponsored Faculty Development Program “Advances in Computer Science & Information Technology” at NERIST, Itanagar on 26.08.2013.
12. Expert Lecture in TEQIP Sponsored National Workshop on “Recent Trends in Information Technology” organized by the Dept of IT, College of Engg. & Management, Kolaghat in Technical collaboration with the Dept of CSE, University of Kalyani, on 26.10.2013, topic “Aspects of Security in Communication-Recent Trends”
13. Keynote Address on “Soft Computing based Security in data Communication”, Dept. of Computer Science, Gourbanga University, Malda, 6-7 December, 2013.
14. Invited Talk on “Soft Computing based Security in Unify Computing”, CSI-2013 Student Convention, Visakhapatnam, 11-15 December 2013, talk delivered on 12.12.2013, on the eve of International Conference on ‘Critical Infrastructure”.

**Special activities in 2012:**

 **Chairing Sessions in Conferences:** 7 sessions in seven conferences

 **Expert/Invited Lecture delivered:** 12 in 12 international Conferences

 **Conference attended:** 12

 **Expert Lecture as guest faculty: 1** x 5 days at Tripura University

 **Organizing Workshop: 7** Workshop/Seminar

 **Book Published: 2**

**Invited Lectures 2012**

1. Expert Lecture in the Refresher Course on Computer Science anf IT at UGC Academic Staff College, Maulana Azad National URDU, Hyderabad, on 04.10.2012, Topic “Steganography and its Applications”
2. Invited Talk at Teqip Sponsored National Conference on “Multimedia, Imaga peocessing, Intelligent Computations and Security”, Organized by Kolaghat College of Engineering & Management, East Midnapur,Topic:”Steganography and related Security”, September 29-30,2012.
3. Invited Talk at One day National Conference on “Image Processing & Security in Communication”, Organized by Department of Computer Applications, Siliguri Institute of Technology, Darjeeling, Topic:”Secured Image Processing in Wireless Communication”, September 10,2012.
4. Invited Talk at National Conference on “Intellectual Property Rights and Patent Laws, IPRPL-2012”, Organized by Greater Kolkata College of Engineering and Management at K.P. Basu Memorial Auditorium, Jadavpur University,Topic: “Aspects of IPR in Digital Systems and Related IT Acts”, August 25,2012.
5. Expert Talk at Kalyani Govt. Engineering College, Kalyani, Nadia, AICTE Sponsored Staff Development Programme (30.01.12-10.02.12) on 07.02.12,“Energy Dependent Security based on Adaptive Neural Secret Key for Ubiquitous Computing in Wireless Communication**”**
6. Invited Talk at UGC sponsored national conference “Research and Higher Education in Computer Science and Information Technology, RHECSIT - 2012” on An Adaptive Neural Secret Key Associated Recursive Modulo-2 Operation of Paired bits for Online Wireless Communication (ANSKPPE)”, Conducted by Department of Computer Science, Sammilani Mahavidyalaya, Kolkata, in Collaboration with Dept. of Computer Science & Engg., University of Calcutta, February 21- 22, 2012
7. Invited Talk at UGC sponsored national conference “ Recent Advances in e-Technologies” organized by Department of Computer Science, Netaji Mahavidyalaya, Arambagh, Hooghly, in Collaboration with Dept. of Computer Science., University of Burdwan, February 24 - 25, 2012
8. Invited Talk at Academy of Technology, Adisaptagram on 2nd International Conference on “Computer, Communication, Control and Information Technology”, topic “Watermarking in Transform Domains (WTD)”, February, 25-26 on 26.02.12
9. Visiting fellow under Merge Scheme at Department of Computer Science at Vidyasagar University, Midnapur, topic “Networking, Internetworking and Wireless Communications”, during March, 01-05, 2012.
10. Expert Lecture in the Refresher Course at Burdwan University on 14.03.2012 and 16.03.2012, Topic “Mobile and Wireless Communications”
11. Invited Lecture in second National Conference On Computing and Systems – 2012 (NaCCS 2012), Topic, “A Tribute to Steven Paul Jobs”, on 15.03.2012 at University of Burdwan, 2012.
12. Invited Lecture in UGC sponsored National Seminar on “ICT in Rural Governance in India: Theory & Practice” on 23rd & 24th March 2012 at Government Women’s College, Gardanibagh, Patna, 2012, Topic, “E-Technologies and its Applications in Rural Developments”.

**Chairing Sessions:**

1. UGC sponsored National Seminar on **“Global e-healthcare, Present Trends”** on 8th & 9th September 2012 at at IETE Kolkata Centre(Plot – J1-7, Block-EP, Sector-V, Salt Lake Electronics Complex, Opposite WEBEL Bhawan, Kolkata-700091), 2012, One Session
2. UGC sponsored National Seminar on “ICT in Rural Governance in India:Theory & Practice” on 23rd & 24th March 2012 at Government Women’s College, Gardanibagh, Patna, 2012, One Session.
3. Second National Conference On Computing and Systems – 2012 (NaCCS 2012), on 16.03.2012 at University of Burdwan, 2012, One Session.
4. UGC sponsored national conference “Research and Higher Education in Computer Science and Information Technology, RHECSIT-2012, Conducted by Department of Computer Science, Sammilani Mahavidyalaya, Kolkata, in Collaboration with Dept. of Computer Science & Engg., University of Calcutta, February 21 - 22, 2012, on 21.02.2012.
5. 2nd International Conference on “Computer, Communication, Control and Information Technology”, during 25-26 February, Academy of Technology, Adisaptagram, 2012, on 26.02.12
6. INDIA 2012, (Springer) 5-7 January 2012, Visakhapattanam, One Session.
7. Chairing two sessions in ETCS 2012 at Barrackpur Rastraguru Surendranath College, 20-21 January 2012. Organizing the conference as organizer.

**Organizing Workshop Conferences in 2012:**

1. International Conference on Intelligent Infrastructure as Program Chair on the Eve of Annual Convention of CSI 2013 at Science City Kolkata during 1-2 December 2013.

**Special activities in 2011:**

 **Chairing Sessions in Conferences:** 6 sessions in six conferences

 **Expert/Invited Lecture delivered:** 4

 **Conference attended:** 6

 **Expert Lecture as guest faculty:** 1 x 5 days at Tripura University

 **Organizing Workshop: 5** Workshop/Seminar

 **Book Published: 3**

**Special activities in 2010:**

 **Chairing Sessions in Conferences:** 4 sessions in two conferences

 **Expert/Invited Lecture delivered:** 4

 **Conference attended:** 4

 **Expert Lecture as guest faculty:** 2 x 5 days

 **Organizing Workshop: 2** Workshop/Seminar

**Organizing Workshop/Conference:**

* + - 1. Workshop, 4th March, 2010, on Android Operating System and its porting on Hawboard ( omapl138 from TI ), Main Resource, Mr. Partha Acharya, Lead Engineer, Embedded and Wireless Group, SQL Star International Ltd.
1. Seminar, 4th Jan., 2011, Topic, “How to make your career in IT and Computers”, Main Resource, Mr. Sayan Lahiri, Senior Director, Sales IT, HP International California, USA.
2. Workshop, 28th March, 2011, Topic, “Industry Institute Interaction”, Resources -Mr. Anirban Ghosh, Architect Cognizant, CTS and Sanchayan Bhattacharya, Senior Systems Support, WIPRO Limited.
3. Workshop, 18th July, 2011, Topic, “Quality and standards in UK academia”, Main Resource, Dr. Clive Rosen, University of Derby, UK.
4. Seminar, 31st October, 2011, Topic, “Telecom Billing”, Main Resource, Mr. Avijit Dasgupta, Delivery Manager, Tech Mahindra Ltd.
5. Seminar, 14th November, 2011, Topic, “Data Warehousing”,Main Resource, Mr. Premasish Dan, Associate Consultant, Tata Consultancy Services Ltd.
6. Conference, 20th & 21st January, 2012, Topic, “Emerging Trends in Computer Science”, 25 papers presented and published with ISBN hard copy proceedings. ETCS 2012 in collaboration with University of Calcutta and Barrackpure Rastraguru Surendranath College (20-21, January 2012) as Programme Chair.
7. Workshop,15th & 16th February, 2012, Topic “Use of TNT mips for GIS Application Generation”, Resources, Mr. Balen Basu, Director, OPSIS Systems, Dr. G. N. Saha, Ex-Director, NATMO, Govt. of India, Mr. S. Pal, OPSIS Systems.
8. Workshop, 12th – 16th March, 2012, Topic, “Industry Orientation Program”, Ardent Computech Pvt. Ltd.,Kolkata
9. Workshop, 13th & 14th March, 2012, Topic, “GIS based Applications through TNT Mips”Resources, Dr. J. K. Mandal, Professor, Dept. of CSE, KU, Dr. B. Basu, Director, OPSIS Systems, Mr. S. Pal, OPSIS Systems
10. Seminar, 7th March, 2012, S, Topic, “How to Relate Industry – Institute”, Prabuddha Sinha Thakur – TCS and Subhro Sarkar – Tech Mahindra
11. Workshop, 19th March, 2012, Topic, “Recent Embedded Trends for Hand Held Devices”, Main Resource,Mr. Partha Acharya – Principal Engineer, Logitech Engineering & Design India Pvt. Ltd.
12. Workshop, 26th & 27th March, 2012, Topic, “Human Centered Design for Successful Products and Services”, Chandravalee Iyengar – Principal Consultant, User Interface Design
13. Workshop, 27th & 28th March, 2009, Topic, “Remote Sensing & GIS Application”, Various experts from IIT, Kharagpur, Government of West Bengal.

**Conference Attended**

1. UGC sponsored National Seminar on “ICT in Rural Governance in India: Theory & Practice” on 23rd & 24th March 2012 at Government Women’s College, Gardanibagh, Patna, 2012
2. Second National Conference On Computing and  Systems  –  2012 (NaCCS 2012), 15.03-2012-16.03.2012 at University of Burdwan, 2012.
3. UGC National Conference on Recent Advances in e-Technologies” organized by Department of Computer Science, Netaji Mahavidyalaya, Arambagh on 24.02.2012
4. IEEE International Conference C3IT 2012, at AOT Hoogly, 26.02.12
5. UGC National Conference RHECSIT – 2012 at Sammalani College, Kolkata, on 21.02.2012
6. Springer Sponsored INDIA 2012, at Visakhapattanam during 5-7 th January 2012
7. UGC Funded ETCS 2012 at Barrackpure during 20-21 January 2012

**Reviewer**

ETCS 2012**,** C3IT 2012,

**Special activities in 2011:**

1. Invited Talk at Rajagiri School of Engineering and technology, Kochin, on 22.12.2011, International Workshop on Embedded Computing and Communication System (IWCC 2011), <http://iwcc2011.org>, “A Frequency Domain Steganography using Z Transform (FDSZT)”.
2. Invited Talk at Science City, Kolkata on 27.12.2011,IEEE First International Conference on Communication and Industrial Applications (ICCIA 2011), IEEE Conference id 19700, “An Adaptive Neural Network Guided Random Key Exchange Technique for Low Energy based Online Wireless Communication**”**
3. Visiting Fellow of CSE, Tripura University September, 2011
4. Attended CII Workshop at JU on 07.09.2011 regarding Industry oriented Curriculum Development
5. Member of BOS, Burdwan University
6. Member, BOS, Gourbanga University
7. Expert member of selection Committee of IT and CSE, Tripura University.
8. Programme Committee member PDCTA-2011 of AIRCCSE, Springer
9. TPC member for the Software system and Application Design track (SSD) of International Symposium on Electronic System Design (ISED) 2011 to be held during 19-21 December 2011 at Kochi, India(http://www.ised2011.org).
10. Participated in the workshop “AVAYA intelligent Communication” held on 20.05.2011 at Hotel Hayat Regency, Kolkata.
11. One of the organizer of the UGC sponsored National Symposium, “Emerging Trends in Computer Science (ETCS 2011)” to held at Barrackpure Rastraguru Surendranath College, Barrackpure during 18-19 November 2011, jointly organized by Kalyani University, Calcutta University and Rastraguru Surendranath College.
12. Dr. D. S. Mukherjee Memorial Invited Lecture at the Department of CSE, Kalyani Govt. Engg. College, Kalyani, Nadia, Topic:”Steganography and various applications” on 22.03.2011.
13. Invited Lecture at the Department of CS, University of Burdwan, Topic: “RS-GIS – A new Horizon for Application Development”, for the participants of UGC Refresher Course on ICT, on 11.03.2011.
14. Participated in the Workshop on Credit Transfer and its feasibilities among Universities of India, Jadavpur University, Kolkata, on 04.03.2011
15. Participated in the Workshop on National Knowledge Network and NMEICT Link to Universities and Colleges, organized by BSNL Eastern Region, sponsored by MHRD, Govt. of India, Kolkata, on 11.02.2011.
16. Invited Lecture at Patna Women’s College, Patna, Topic:”Resources on Inflibnet: Creation, Access & Management” in an Inflibnet awareness Programme for the Principals of State aided colleges of Bihar, on 18.02.2011.
17. Expert Lectures at NET coaching centre, University of Burdwan on 29.03.2011

**Reviewer**

Reviewer of various International Journals and Conferences, since 1994. Journals of AMSE France; ICCS 2010 Burdwan University, India ; ICCCS 2011, Rourkella, India; ICCSIT2011,China, PDCTA-2011 Springer, IEEE ISED 2011, AIRCC springer, CCSIT 2012 Bangalore, Journal of Inderscience U.K., IEEE ReTIS 2011 Kolkata, NCECS 2011 Siliguri, IEEE NCETACS 2012 Shilong, ACM Journal of Engineering & Technology in Computing, ICCCS 2011 Rourkella, IEEE ICCIA-2011 Narula Institute of Technology, Kolkata, RAIT 2012, ISM Dhanbad, Jharkhand.

Chairing Sessions:

* NACCS 2010 Burdwan University, India-One Sessions
* ICCS 2010 Burdwan University, India-Two Sessions

**Conference/Workshop attended:**

* PDCTA, Springer Conference 2011 at Tirunelveli, Kerala
* International Conference on Issues and Challenges in Networking, Intelligence and Computing **(ICNICT 2011)**, KIET, Gagiabad
* ICNTIT 2011, Chennai
* Wireless Vite 2011, Chennai
* NACCS 2010 Burdwan University, India
* ICCS 2010 Burdwan University, India
* IEEE ISED, 2011 Bhubaneawar, India
* IEEE EAIT 2011 Kolkata, India
* IEEE Wireless Vite 2011, Chennai, India
* ICCS 2011 Rourkella, India
* ICCCNT 2010 Karur, India
* Springer NeCom 2010, Chennai, India

Administrative experience: Ex-Dean Faculty of Engineering, Technology & Management 2008 (first term: 09.04.2008-22.04.2010, Second Term: 09.07.2010-08.07.2012), Member of University Executive Council and University Court 2008-2012(July). Experienced as Head and Chairman of various boards since 1998. Coordinator of TEQIP in Kalyani Govt. Engg. College, Domain Expert member of Uttarbanga Krishi Viswavidyalaya, Bidhan Chandra Krishi Viswavidyalaya for planning and integration of Public domain networks. Reviewer of various Journals and Conferences.

**Involvement with academic bodies**

|  |  |  |  |
| --- | --- | --- | --- |
| **Academic Body** | **Institution** | **Position/ Nature of****assignment** | **Period/years** |
| Director, Internal Quality Assurance Cell, Kalyani University | Kalyani University | Director/Coordinator | Since December 2013 |
| Dean, Engineering, Technology and Management | University of Kalyani | Administrative Head of Engineering Faculty | 4 years since 23rd April 2008 |
| Executive Council | University of Kalyani | Member | 4 years |
| University Court | University of Kalyani | Member | 4 years |
| Program Advisory Committee | All India Radio , Siliguri | Administrative | Two years during 2002-2004 |
| Expert Committee member | Uttarbanga Krishi Viswavidyalaya | Domain Expert for campus networking | Two years |
| Joint Director and Convener | Centre for Remote Sensing Applications, University of North Bengal | To run M. Phil Course in Remote Sensing | Four Years |
| Coordinator, Campus Networking | University of North Bengal | Fabrication of FO-Utp LAN | Two years |
| Coordinator, TEQIP | Kalyani Government Engineering College | Implementation of TEQIP programme | Two Years , 2005-2007 |
| Expert Committee Member | University of Animal and Husbandry | Domain Expert for Video Conferencing Lab | Two years,2009-2011 |
| Expert Member of BOS | University of Burdwan | Curriculum development and monitoring | Four years |
| Expert Member of BOS | Barasat State University | Curriculum development and monitoring | Two years |
| Expert Member of BOS | Rastraguru Surendranath College, Barrackpur | Curriculum development and monitoring | Two years |
| Expert Member of BOS | Vidyasagar University | Curriculum development and monitoring | One year |
| Expert Member of BOS | Department of Computer ScienceBanarash Hindu University | Curriculum development and monitoring | Two years |
| Expert Member of BOS & Chairman | Gourbanga University | Curriculum development and monitoring | Two years |
| Expert Member of BOS | Sidhu Kano Birsa University | Curriculum development and monitoring | Two years |
| Expert member of BOS | Andhra University | Curriculum development and monitoring | Two Years |
| Expert member of Faculty of Science | Banarash Hindu University | Curriculum development and monitoring | Two Years |
| Expert member of BOS of CSE | NIT Mizoram | Curriculum development and monitoring | Two Years |
| Director, IQAC,  | Kalyani University | Quality Assurance of the University | Contd. |
| Expert member of BOS of CSE | Barasat State University | Curriculum development and monitoring | Two Years |

***Editors:***

* ***Chief Editor, Advanced Computing : An International Journal, ISSN:2229-6727[online]; 2229-726X[print] of AIRCC***
* Proceedings of various conferences
* Proceedings of ETCS 2012.
* Proceedings of ERC-95, ,CSI
* Proceedings of NIDS-98 of CSI
* Proceedings of International Conference on “Intelligent Infrastructure” under CSI-2012(www.csi-2012.org)

*Publications as Invited paper: 04*

1. Mandal, J. K., “E-Technologies and its Applications in Rural Developments”. Proceedings of UGC Sponsored National Seminar on “ICT in Rural Governance in India: Theory & Practice”,23-24th March 2012,Government Women’s College, Gardanibagh, Patna,pp.3-6, 2012.
2. Mandal, J. K., “An Adaptive Neural Secret Key Associated Recursive Modulo-2 Operation of Paired bits for Online Wireless Communication(ANSKPPE)”, Proceedings of UGC Sponsored National Conference on Research Higher Education in Computer Science and Information Technology (RHECSIT-2012), ISBN:978-81-923820-0-5, 21-22 February, 2012, pp. 26-31, Sammilani Mahavidyalaya, Kolkata, India, 2012.
3. Mandal, J. K., ” E-Technology: Architecture and Application” UGC sponsored national conference on Recent Advances in e-Technologies” organized by Department of Computer Science, Netaji Mahavidyalaya, Arambagh, Hooghly, in Collaboration with Dept. of Computer Science., University of Burdwan, February 24 - 25, 2012.
4. Mandal, J. K., “Watermarking in Transform Domains (WTD)”, Procedia Computer Science, Elsevier viz. C3IT 2012 (2nd International Conference on Computer, Communication, Control and Information Technology), Academy of Technology, Adisaptagram, Hoogly, 25-26 February, 2012.

*Book Chapter: 2*

* 1. Sarkar, A., & Mandal, J. K. (2015). 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. (Accepted). Indexed by: SCOPUS, Thomson Reuters, DBLP Computer Science Bibliography, ERIC - Education Resources Information Center, and ACM Digital Library, CrossRef., Compendex, PsycINFO, INSPEC, Cabell’s Directories, Google Scholar etc., 2015.
1. Mandal, J. K., & Mukhopadhyay, S. (2013). Adaptive Median Filtering Based on Unsupervised Classification of Pixels. In S. Bhattacharyya, & P. Dutta (Eds.) Handbook of Research on Computational Intelligence for Engineering, Science, and Business (pp. 273-296). Hershey, Pennsylvania (USA): Information Science Reference (IGI Global).

*Publications in the Journals: 131*

1. Gupta A. K., Bhattacharya, I, Banerjee, P. S.,Mandal J K & Mukherjee A,”DirMove: direction of movement based routing in DTN architecture for postdisaster scenario Wireless Networks,The Journal of Mobile Communication,Computation and Information, ISSN 1022-0038,DOI 10.1007/s11276-015-0994-0(SCIIndexed), June, 2015, .link: http://link.springer.com/article/10.1007/s11276-015-0994-0
2. Singh, M.M., Singh., A and Mandal, J. K., A Snapshot of Black Hole Attack Detection in MANET, International Journal of Computer Applications, (0975 – 8887), ISBN 973-93-80886-25-8, Volume116, No.14, pp. 23-26,( <http://research.ijcaonline.org/volume116/number14/pxc3902759.pdf>),April 2015.
3. Dulal Acharjee, Amitava Mukherjee, J K Mandal, Nandini Mukherjee ,”Activity Recognition System Using Inbuilt Sensors of Smart Mobile Phone and Minimizing Feature Vectors”, Microsystems Technologies, Springer(accepted) 2015.
4. Mukhopadhyay, S. and Mandal, J.K. (xxxx) ‘Image denoising based on sub-image restoration through threshold optimisation’, Int. J. Computational Intelligence Studies, Inderscience, Vol. X, No. Y, pp.xxx–xxx.(Accepted).
5. Chakraborty, R, Mandal, J.K. “Secure Encryption Technique (SET): A Private Key Crypto System’ in the International Journal of Multidisciplinary in Cryptology and Information Security (IJMCIS)”, ISSN 2320-2610, Vol.4, No.1 (January – February 2015 issue), pp.10-13, 2015.
6. Mallick, M., Sengupta Madhumita and Mandal, J. K. (20th February, 2015). Authentication through Hough Signature on G-Let D4 Domain (AHSG – D4), National Conference on Computational Technologies – 2015 (NCCT’15), Organized by North Bengal University. Proceedings published with International Journal of Computer Science and Engineering. 3(1), 59 - 67, e-ISSN: 2347-2693, 2015.
7. Bandyopadhyay, D, Dasgupta, K  Mandal, J. K. Dutta, P, “A novel secure image steganography method based on Chaos theory in spatial domain”, International Journal of Security, Privacy and Trust Management (IJSPTM) ,Vol 3, No 1, February 2014, pp: 11-21, 2014.
8. Rajdeep Chakraborty, Sibendu Biswas and JK Mandal “Modified Rabin Cryptosystem through Advanced Key Distribution System”, published in IOSR Journal of Computer Engineering (IOSR–JCE), e-ISSN: 2278-0661, p-ISSN: 2278-8727, accepted & published in Volume 16, Issue 2 Ver XII (Mar. - Apr. 2014) issue, PP 01-07, indexed by NASA, Cross Ref, Arxiv.org, Cabell’s, Index Copernicus, EBSCO Host, Ulrichs Web, Google Scholar, ANED, Jour Informatics, 2014.
9. Rajdeep Chakraborty, Santanu Basak and JK Mandal “An FPGA Based Crypto Processor through Triangular Modulo Arithmetic Technique (TMAT)”, published in International Journal of Multidisciplinary in Cryptology and Information Security (IJMCIS) ISSN 2320 –2610, accepted & published in Volume 3, No.3 (May – June 2014) issue, PP 14-20, indexed by Google scholar, Cite Seer, getCited, .docstoc, Scribd, Ulrich Web, Index Copernicus, Microsoft Academics, New Jour, DOAJ, 2014
10. Singh, M.M.,Singh., A and Mandal, J.K., Towards Techniques of Detecting Node Replication Attack in Static Wireless Sensor Networks”, International Journal of Information and Computation Technology,Vol 4, Number 2(2014), Pp 153-164,ISSN: 0974-2239., 2014
11. Ghosal, S.K, Mandal J.K, “Color Image Authentication based on Two-Dimensional Separable Discrete Hartley Transform (CIA2D-SDHT)”, Association for the Advancement of Modelling and Simulation Techniques in Enterprises (AMSE), France, communicated on line (www.amse-modeling.com under user of jkm), 2014.
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