T A R E S U M E

Uttam Kumar Roy
Asst. Professor,
Department of Information Technology,
Jadavpur University, Salt Lake Campus,
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Personal

Permanent address	:	Sukanta Pally, Narayanpur, P.O. - R. Gopalpur, P.S. - Airport, Kolkata - 700 136, India
Date of Birth	:	9th January, 1977
Citizenship	:	Indian
Sex/Status	:	Male/Double
Present Status	:	Asst. Professor, Department of Information Technology, Jadavpur University, Salt Lake Campus, Kolkata - 700 098

Educational Qualifications (in reverse chronological order)

Name of Degree/Examination	Name of University/Board/Council	Year of Passing	Div/ Class
Ph. D. (Engineering)	Jadavpur University, Kolkata, India	2008	--
M. Tech. (Computer Science & Engg.)	Jadavpur University, Kolkata, India	2002	1st
B. Tech. (Computer Science & Engg.)	University of Calcutta, India	2000	1st
Bachelor of Science (Hons. in Physics)	University of Calcutta, India	1997	1st
Higher Secondary. (10+2)	West Bengal Council of Higher Secondary Education, India	1994	1st
Secondary (10)	West Bengal Board of Secondary Education, India	1992	1st

Research Interest

Voice/Music Processing, Distributed/Mobile/Wireless Computing, Bio-Informatics, RFID, Cyber Physical Systems, Optimization, Machine Learning, Renewable Energy etc.

Publications

Text Books: (http://www.oup.co.in/more-by-author/roy-uttam-k/495)

1. "Web Technologies", Oxford University Press, ISBN-10: 0198066228, ISBN-13: 978-0198066224, First edition published in October 2010, Eighth impression 2014 No. of pages:776, more than 20,000 copies sold.

2. "Advanced Java Programming", Oxford University Press, ISBN-13: 978-0-19-945550-8, ISBN-10: 0-19-945550-3, First published in March 2015, No. of pages:880

Journal/Conference papers:

Mobile/Wireless Computing

1. Hemanta Dey, **Uttam Kumar Roy**, "More Randomness Of Improved Rc4 (Irc4) Than Original Rc4", Journal Of Pure And Applied Research In Engineering AndTechnology, Vol 2(7), pp 149-157, March 2016[m17]

2. **Uttam Kumar Roy**, "Modified ZigBee Tree Addressing to Support Arbitrary Tree Networks", Proc. of 3rd International Conference Applications and Innovations in Mobile Computing (AIMoC 2016). February 10-12, 2016, pp 39-45

3. **Uttam Kumar Roy**, "Source-Initiated Routing to Support Large-scale Pseudo-Linear ZigBee Networks", Proc. of First International Conference on Intelligent Computing and Communication (ICIC2 16). February 18-19, 2016, accepted

4. **Uttam Kumar Roy**, "Introspecting Effect of Packet Size on End-to-end Network Delay", Proc. First International Conference on Intelligent Computing and Communication (ICIC2 16). February 18-19, 2016, accepted

5. **Uttam Kumar Roy**, "Enhancing ZigBee Tree Routing to Support Large Pseudo-Linear Network Topologies", Proc. of International Conference on Control, Instrumentation, Energy & Communication (CIEC 16). January 28-30, 2016, IEEE Conference Record Number: 36757, pp 501-505[m16]

6. Debabrato Giri, **Uttam Kumar Roy**, "Combined Hybrid Routing Algorithm for WPAN", Proc. of International Conference on Control, Instrumentation, Energy & Communication (CIEC 16). January 28-30, 2016, IEEE Conference Record Number: 36757, pp 496-500[m15]

7. Hemanta Dey, **Uttam Kumar Roy**, "An approach to find out the optimal randomness using parallel s-boxes in RC4", Proc. International Conference on Business and Information Management (ICBIM 16). January 09-11, 2016, pp 1-6[m14]

8. **Uttam Kumar Roy**, "Modified Source-Routing for Large-Scale Pseudo Linear ZigBee Networks", Proc. Of IEEE International Conference On Research In Computational Intelligence And Communication Networks (ICRCICN 2015). November 20-22, 2015, IEEE Conference Record Number: 36801, pp. 85-89, DOI: 10.1109/ICRCICN.2015.7434215, ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7434215&filter=AND(p_Publication_Number: 7428302) [m13]

9. **Uttam Kumar Roy**, Parama Bhaumik, "Enhanced ZigBee Tree Addressing for Flexible Network Topologies", 2nd International Conference Applications and Innovations in Mobile Computing (AIMoC 2015). Feb. 12-14, 2015, pp. 6-11, http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7083822, DOI: 10.1109/AIMOC.2015.7083822 [m12]

10. **Uttam Kumar Roy**, *"Light-Weight Addressing and Routing Schemes for Resource-Constrained WPAN Devices"*, Proc. Of 8th International Conference on Sensing Technology (ICST 2014), September 2-4, 2014, Liverpool, UK, pp. 46-51, ISSN-1178-5608, http://www.s2is.org/icst-2014/papers/1569952549.pdf [m11]

11. **Uttam Kumar Roy**, *"Extending ZigBee Tree Routing Protocol for Resource-Constrained Devices"*, Asia Pacific Conference Wireless and Mobile (APWiMob2014), August 28-30, 2014, Bali, Indonesia, pp. 48-53, http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6920261&tag=1, DOI: 10.1109/APWiMob.2014.6920261 [m10]

12. **Uttam Kumar Roy**, "Variable-Length Addressing and Routing for Resource-Constrained ZigBee Devices", International Conference on Computer, Control, Informatics and Its Application – 2014, Bandung-Indonesia, 21-23 October, 2014(Accepted)[m9]

13. Debabrato Giri, **Uttam Kumar Roy**, "*Multi Channel Personal Area Network(MCPAN) Formation and Routing*", International Conference on Industrial Engineering Science and Applications (IESA 2014), April 2-4, 2014, NIT, Durgapur, India, pp. 73-79, [m8]

14. Debabrato Giri, **Uttam Kumar Roy**, *"WPAN Routing Using Huffman Technique"*, *International Journal of Engineering Sciences, February, 2013, vol. 2, no. 2, pp.* 49-61, ISSN: 2306-6474. http://waprogramming.com/index.php?action=paper&jid=5&iid=36&pid=167, [m7]

15. Debabrato Giri, **Uttam Kumar Roy**, "Multilevel Address Reorganization Type 2 I N Wireless Personal Area Network", International Journal of Wireless & Mobile Networks (IJWMN), February 2013, vol. 5, no. 1 pp. 47 - 64., , ISSN: 0975–4679, e-ISSN : 0975–3834, DOI: 10.5121/ijwmn.2013.5104, http://airccse.org/journal/jwmn/0213wmn04.pdf, [m6]

16. Suman Kundu, **Uttam Kumar Roy**, *"An Efficient Algorithm to Reconstruct a Minimum Spanning Tree in an Asynchronous Distributed Systems"*, 17th International Conference on Advanced Computing and Communications (ADCOM-09), December 14-17, 2009, Bangalore, India. pp. 118-124, http://www.accsindia.org/conferences/adcom_2009.php?procid=18&pageno=2, [m5]

17. Debabrato Giri, **Uttam Kumar Roy**, *"Single Level Address Reorganization In Wireless Personal Area Network"*, 4th International Conference on Computers & Devices for Communication (CODEC-09), December 14-16, 2009, Calcutta University, India, pp. 1-4, ISBN- 978-1-4244-5073-2. http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?isnumber=5407062&arnumber=5407228&count=137 &index=101, [m4]

18. Debabrato Giri, **Uttam Kumar Roy**, *"Address Borrowing In Wireless Personal Area Network"*, Proc. of IEEE International Advanced Computing Conference, (IACC '09, March 6-7), Patiala, India, pp. 181-186, http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?isnumber=4808969&arnumber=4809003&count=300 &index=33, DOI: 10.1109/IADCC.2009.4809003 [m3]

19. **Uttam Kumar Roy**, Debarshi Kumar Sanyal, Sudeepta Ray, *"Analysis and Optimization of Routing Protocols in IEEE802.15.4"*, Proc. of the 4th Asian International Mobile Computing Conference (AMOC 2006), January 4-7, 2006, Jadavpur University, Kolkata, India, pp. 172-181, [m2]

20. **Uttam Kumar Roy**, Debarshi Kumar Sanyal, Sudeepta Ray, Samiran Chattopadhyay, *"Analysis and Optimization Of Routing Protocols In Wireless Personal Area Networks"*, IASTED International Conference on Parallel and Distributed Computing and Systems (PDCS 2005), Phoenix, USA, Nov 14-16, 2005, [m1]

Steganography

21. Ayan Chatterjee, Gourab Dolui, **Uttam Kumar Roy**, "Text Based Steganography – A Theoretical Proposal of Text Based Hiding Strategy", Journal of Scientific & Engineering Research, Volume 6, Issue 11, November-2015, DOI: 10.14299/ijser.2015.11.005, ISSN 2229-5518, pp 625-629 [sg1]

RFID

22. Indrajit Bhattacharya, Amit Kumar Gupta, **Uttam Kumar Roy**, "*XRFID: Design of an XML Based Efficient Middleware for RFID Systems*", International Journal of Radio Frequency Identification and Wireless Sensor Networks, July 2011, ISSN:1847-9812, vol. 1, no. 1, pp. 44-52, [rfid4]

23. Indrajit Bhattacharya, **Uttam Kumar Roy**, "*Tracking and monitoring of tagged objectse employing particle swarm optimization algorithm in a departmental store*", IIUM Engineering Journal, 2011, ISSN:1511-788X, E-ISSN: 2289-7860 ,vol. 12, no. 1, pp. 1-12 [rfid3]

24. Indrajit Bhattacharya, **Uttam Kumar Roy**, "*Optimal Placement of Readers in an RFID Network Using Particle Swarm Optimization*", International Journal of Computer Networks and Communication, November 2010, ISSN:0975-2293,vol. 2, no. 6, pp. 225-234, [rfid2]

25. Indrajit Bhattacharya, **Uttam Kumar Roy**, *"Performance Analysis Of Anti Collision Algorithms For Tracking Objects Containing Passive RFID Tags"*, International Journal of Information Technology And Knowledge Management, July-December 2009, ISSN online: 1741-5179 ISSN print: 1461-4111, vol. 2, no. 2, pp. 425-429, [rfid1]

Distributed Computing

26. **Uttam Kumar Roy**, Samiran Chattopadhyay, *"An Efficient Decentralized Middleware-based Load Balancing in state-full CORBA Object System",* Proc. of The 4th International Conference on Computer Science and Information Technology(CSIT 2006), April 5-7, 2006, Amman, Jordan, vol. 1, pp. 317-326, [dc5]

27. **Uttam Kumar Roy**, Samiran Chattopadhyay, *"Interceptor-based CORBA Object Proxy Caching System",* Proc. of the 1st IEEE International Conference of Computer Communications and Signal Processing (CCSP 2005, Nov 14-16), Kuala Lumpur, Malaysia, pp. 262-265, **DOI:** 10.1109/CCSP.2005.4977203 [dc4]

28. **Uttam Kumar Roy**, Samiran Chattopadhyay, *"Wraper based Object Caching in CORBA",* Proc. of Computing, Communications and Control Technologies, CCCT '04, August 14-17, University of Texas, Austin, USA, vol. 1, pp. 211-216, [dc3]

29. **Uttam Kumar Roy**, Samiran Chattopadhyay, *"Some studies on Object Caching in CORBA",* Proc. of Distributed Processing and Networking, DPN '04, IIT Kharagpur, India, pp. 18-22, [dc2]

30. **Uttam Kumar Roy**, Samiran Chattopadhyay and Amit Ranjan Gantait, *"Event Service Based Architecture for Object Caching in CORBA"*, Proceedings of the 6th International Conference/Exhibition on High Performance Computing in Asia-Pacific Region (HiPC, December 18-21 2002, Bangalore, India), Tata McGraw Hill, vol. 2, pp. 583-584. http://www.cdac.in/html/hpcasia/ps.asp, [dc1]

Voice Processing

31. Banerjee P.S., **Uttam Kumar Roy**, Paper titled "Modified PSOLA-Genetic Algorithm based approach for Voice Re-Construction", Journal of Information Technology, Publishing India Group, vol. 2, no. 4, pp. 1–9, Sep-Nov 2013, ISSN No. 2277-5110. URL: http://www.imanagerpublications.com/Author/ArticleHTML.aspx?articleID=2538&issueid=493, [vp1]

Music Synthesis

32. **Uttam Kumar Roy**, "Transcription to Instrumental Music Synthesis with Tabla", 2016 IEEE International Conference on Signal and Image Processing, Accepted[ms3]

33. **Uttam Kumar Roy**, "Synthesizing Instrumental Music from Transcription with Tabla", International Conference on Multimedia Systems and Signal Processing (ICMSSP 2016), Accepted[ms2]

34. **Uttam Kumar Roy**, "Concatenated Tabla Sound Synthesis to Help Musicians", 4th ICACCI'15 Doctoral Consortium, Accepted,

35. **Uttam Kumar Roy**, "Composing Recorded Tabla Sound to Accompany Musicians", Proc. Of 2015 Annual IEEE India Conference (INDICON) - Communication & Signal Processing, pp 1-6, DOI: 10.1109/INDICON.2015.7443114 [ms1]

BioInformatics

36. Ayan Chatterjee, **Uttam Kumar Roy** and Nibedita Pahari, "Bio-Informatics – Review on Current Research and Evolution of Cancer Targeted Therapies", Communications on Applied Electronics 4(3):48-55, January 2016. Published by Foundation of Computer Science (FCS), NY, USA.DOI-10.5120/cae2016652049[bioin5]

37. Ayan Chatterjee, **Uttam Kumar Roy**, "Cancer Bio-Informatics New Future of Cancer Therapy", Journal of Scientific & Engineering Research, Volume 6, Issue 11, November-2015, DOI: 10.14299/ijser.2015.11.006, ISSN 2229-5518, pp 612-617 [bioin3]

38. Ayan Chatterjee, **Uttam Kumar Roy**, "Bio-Informatics - Next Generation Cancer Targeted Therapies", Journal of Current Engineering and Technology, Volume 5, Issue 6, December-2015, DOI: 10.14741/Ijcet/22774106/5.6.2015.66, E-ISSN 2277 – 4106, P-ISSN 2347 – 5161, pp 3866-3871 [bioin4]

39. Anupam Ghosh , Mainak Talukdar, **Uttam Kumar Roy**, "Stable drug designing by minimizing drug protein interaction energy using PSO", Fifth International Conference on Advances in Computing and Information Technology (ACITY 2015) July 25~26, 2015, Chennai, India, ISSN: 2231 - 5403 , Volume 5, Number 13, July 2015, ISBN : 978-1-921987-41-0, pp. 63–74, DOI: 10.5121/csit.2015.51306 [bioin1]

40. Anupam Ghosh , Mainak Talukdar, **Uttam Kumar Roy**, "Determining Stable Ligand Orientation Using Particle Swarm Optimization", International Journal of Artificial Intelligence & Applications (IJAIA) Vol. 6, No. 5, September 2015, ISSN : 0975-900X(Online), 0976-2191(Print), pp. 109–119, DOI: 10.5121/ijaia.2015.6508 [bioin2]

Re-newable Energy

41. **Uttam Kumar Roy**, Gitashri Mahapatra, "Future Energy Source: An Introspection", Journal of Wind and Renewable Energy. vol. 4, issue 2, 2015, pp. 45-48, ISSN: 2277-3975, http://ijwre.org/index.php?option=com_jresearch&view=publications&Itemid=495 [re1]

Optical Networks/Communication

42. Ayan Chatterjee, Uttam **Kumar Roy** and Nibedita Pahari, "Advancement of Fixed Net Broadband connection in Copper and Hybrid Fiber with VDSL and GIGA COAX", Advancement of Fixed Net Broadband connection in Copper and Hybrid Fiber with VDSL and GIGA COAX. Communications on Applied Electronics 5(7):22-28, July 2016, DOI: 10.5120/cae2016652320 [op1]

43. Ayan Chatterjee, **Uttam Kumar Roy**, "Advancement of Fixed Net Tele Communication and Different Services", 3rd INTERNATIONAL CONFERENCE ON OPTO-ELECTRONICS AND APPLIED OPTICS,2016(OPTRONIX-2016), Accepted [op2]

Research project completed/undertaken

Designation	Title of the Project	Funding Authority	Duration	Sanctioned Amount Rs.
Principal Investigator	A Middleware-based Approach to Design and Implement a Low-Latency Distributed Systems	Jadavpur University, Kolkata (Potential for Excellence Scheme)	1 year (30.08.05 to 30.08.06)	50,000/-
Principal Investigator	Developing and Improving Routing Protocols in IEEE802.15.4-based Sensor/Actuators Networks	Jadavpur University, Kolkata (JU Research Fund)	1 year (23.03.09-30.03.09)	50,000/-
Principal Investigator	Analysis and Improvement of different issues of WPAN for Sensor-based application	PURSE, DST, Govt. of India	3 years (01.01.2010-31.12.2012)	15,00,000/-

Teaching Experience

M.C.K.V. Institute of Engineering, Kolkata, India
Asst. Professor
Department of Computer Science & Engineering
March 2002 – July 2002

Jadavpur University, Kolkata, India
Asst. Professor
Department of Information Technology
July 2002 – till date

Ph. D Supervision:

- Indrajit Bhattacharya, "Real Time Identification and Tracking of Tagged Objects in RFID Systems", Awarded

- Debobrata Giri, "Design and Development of Routing Protocols for IEEE802.15.4 -based Sensor/Actuator Wireless Networks", submitted

- Hemanta Dey, "Enhancing Randomness of RC4", Ongoing

Consultancy

Technical Consultant

Project: "Agro-Sense: Real Time Monitoring of the Climatological Conditions of Agricultural Field for Precision Agriculture using Sensor-based Wireless Mesh Networks", conducted by Indian Institute of Management, Kolkata

1st June 2007 – 31st March 2008

Leadership in Professional Bodies

- Coordinator of "Induction Training for employees of Tech Mahindra (a global systems integrator and business transformation consulting firm)", July-September, 2007.

- Coordinator of "Jadavpur University-Tata Consulting Services collaborative program on Software Engineering", 2007-2012.

- Member of Faculty Council of Engineering & Technology, Jadavpur University, Kolkata, India, till date.

Fellowship/Award /Honor

- Young Faculty Award by Venus International Foundation, Chennai, India, http://venusinfo.org/fa15/uttam.html

- Obtained recognition as mentor for the project "Project Data Dependency" under IBM Remote Mentoring Program, 2011

- Obtained 'National scholarship' from UGC (India) based on performance of B.Sc. in 1997-2000

- Obtained 'UGC Scholarship' from Jadavpur University to pursue M. Tech course in 2000-2002

- Ranked 250th in the Country (India) in Graduate Aptitude Test in Engineering (GATE), 2000.

- Ranked 24th in the State (West Bengal, India) in B. Sc. (Hons. in Physics) Examination, 1997.

- Ranked 1st in the selection test for M. Tech admission. Dept. of Computer Technology, Bengal Engineering and Science University, Howrah, India in 2000

- My students Debarshi Kumar Sanyal and Sudeepta Ray won the 'Best project award' from Tata Consultancy Services (TCS)' for their project entitled "*Analysis and Optimization of Routing Protocols in IEEE802.15.4*" in 2006 under my supervision.

Teaching Assignments (At Jadavpur University)

		Theoretical	Sessional/Practical
Subject/Paper taught	Under Graduate level	▸ Computer Networks ▸ Web Technology ▸ Enterprise Networking ▸ Operating Systems ▸ Internetworking ▸ Object Oriented Programming ▸ Computer Graphics ▸ Digital Circuit and Logic Design ▸ Shell Programming ▸ Component Engineering	▸ Networking Lab ▸ Web Technology Lab ▸ Networking using OOP Lab ▸ Internet Lab ▸ Object Oriented Programming and Graphics Lab ▸ Software Lab-I (Linux Shell Programming) ▸ OS Application Lab ▸ OOP Lab
	Post Graduate level	▸ Wireless and Mobile Protocols ▸ OS & Kernel Programming ▸ Object Oriented Software Engineering (OOSE) ▸ Object Oriented Software Systems	▸ System Programming in Linux Lab ▸ Object Oriented Software Engineering (OOSE) Lab ▸ Distributed Software Systems (DSS) Lab

Participation in seminar/Conference/Symposia/Workshop

Title	Type	Year	Place	Role
International Conference on	International	2004	IIT, Kharagpur,	Paper presentation

			India	
Distributed Processing and Networking(DPN)			India	
International Conference on Computer Communications and Signal Processing	International	2005	Kuala Lumpur, Malaysia	Paper presentation
Asian International Mobile Computing Conference	International	2006	Kolkata, India	Attend the lectures
Asian International Mobile Computing Conference	International	2007	Kolkata, India	Attend the lectures
Pedagogical Tools for Knowledge Management	National	2009	Hyatt Regency, Kolkata, India	Attend the lectures
International Conference on Distributed Computing and Networking (ICDCN 2010)	International	2010 (3-6th Jan)	University of Calcutta, Kolkata, India	Attend the lectures
Energy Sectors in India: Prospectus and Challenges	National	21th March 2014	Jadavpur University, Kolkata, India	Attend the lectures
Excellence in Tour	International	22-28 March, 2014	Science Auditorium, Kolkata, India	Attend the lectures
Nature Inspired Computing held at Electronics and Communication Sciences Unit (ECSU)	National	26-28 March, 2014	Indian Statistical Institute (ISI), Kolkata	Attend the lectures
International Conference on Industrial Engineering Science and Applications (IESA-14)	International	2-4 April, 2014	NIT, Durgapur, India	Attend the lectures
Essence A Foundation for Software Development Games	National	04 June, 2014	Indian Statistical Institute (ISI), Kolkata	Attend the lectures
Emerging and Post-CMOS Technology	National	16-18 June, 2014	Indian Institute of Engineering Science and Technology, Shibpur	Attend the lectures
Asia 8th International Conference on Sensing Technology(ICST 2014)	International	2-4 Sept, 2014	Liverpool John Moores University, UK	Paper presentation
8th International Conference on Sensing Technology(ICST 2014)	International	2-4 Sept, 2014	Liverpool John Moores University, UK	Session Chair
IEEE Asia Pacific Conference of Wireless and Mobile (APWiMoB 2014)	International	28-30 August, 2014	Telkom University, Bali, Indonesia	Paper presentation
IEEE Asia Pacific Conference of Wireless and Mobile	International	28-30 August,	Telkom University, Bali,	Session Chair

(APWiMoB 2014)		2014	Indonesia	
INTERNATIONAL CONFERENCE ON RESEARCH IN COMPUTATIONAL INTELLIGENCE AND COMMUNICATION NETWORKS (ICRCICN 2015).	International	November 20-22, 2015	Kolkata, India	Paper presentation
4th ICACCI'15 Doctoral Consortium	International	August 10-13, 2015	Kerala, India	Paper presentation
Annual IEEE India Conference (INDICON)	International	December 17-20, 2015	Delhi, India	Paper presentation
International Conference on Control, Instrumentation, Energy & Communication (CIEC 16)	International	January 28-30, 2016	Dept of Applied Physics, Calcutta University Kolkata, India	Paper presentation
International Conference on Intelligent Computing and Communication (ICIC2 16).	International	February 18-19, 2016	University of Kalyani, West Bengal, India	Paper presentation
International Conference on Intelligent Computing and Communication (ICIC2 16).	International	February 18-19, 2016	University of Kalyani, West Bengal, India	Paper presentation
3rd International Conference Applications and Innovations in Mobile Computing (AIMoC 2016)	International	February 10-12, 2016	Jadavpur University, Kolkata, India	Paper presentation

Skills

Operating Systems: AIX (Unix), Linux, Windows
Hardware Systems: IBM-P650, IBM-P690, IBM/HP PC
Languages: C/C++, Java, JavaScript, Shell Script, JSP/Servlet, SQL, HTML, XML, Oracle/MySQL,

Academic Course Completed

Type of Course	Title	Attended/ Organized	Place	Duration		Sponsor
				From	To	
Refresher	Disaster Management	Attended	UGC Academic Staff College, Jadavpur University, India	2nd March, 2010	22nd March, 2010	UGC
Retraining	Retraining of teachers on E-learning	Attended	UGC Academic Staff College, Jadavpur University, India	16th November, 2007	17th November, 2007	UGC
Orientation	17 th UGC sponsored Orientation Programme	Attended	UGC Academic Staff College, Jadavpur University, India	20th August, 2007	17th September, 2007	UGC
Short Term	Recent Trends	Attended	Dept. of Mathematics,	10th	15th	AICTE

course	on Networking and Distributed Systems	IIT Guwahati	February, 2015	February, 2015

Post-graduate Level Dissertation Guided

- Debabrato Giri, *"Routing in Wireless Personal Area Network"*, 2009
- Suman Kundu, *"Reconstructing Minimum Weighted Spanning Tree after Topological Changes"*, 2009
- Saptarshi Sengupta, *"Wireless Network Deployment and Optimization"*, 2009
- Ankur Biswas, *"Hardware/Software Partitioning Using Genetic Algorithm"*, 2009
- Uddipan Das, *"Connecting Network Partitions in Wireless Ad-Hoc Networks"*, 2008
- Amjad Khan, *"Power Aware Hierarchical Clustering Algorithm for IEEE802.15.4/ZigBee LR-PAN"*, 2008
- Sourav Karan, *"Digital Color Image Segmentation Using Fuzzy C-Means Clustering Algorithm"*, 2008
- Batsayan Mukherjee, *"Performance Study of Open Office for Document Processing and Printing in SOA Architecture"*, 2007
- Raktim Kumar Laskar, *"Performance Improvement in Global System for Mobile Communication (GSM)"*, 2007
- Moumita Chakraborty, *"Implementing Wireless Sensor Network for Monitoring Agricultural Parameters"*, 2007
- Suvendu Mandal, *"Face Recognition system using Morphological Techniques"*, 2006
- Mithun Sadhukhan, *"Enhancement of ZigBee Tree Routing Protocol"*, 2006
- Tapashri Das, *"Query Processing in Grid Computing"*, 2006
- Tuhin Subhra Jana, *"Load Balancing with caching in CORBA-based Distributed Systems"*, 2005
- Soumen Santra, *"An Updated Strategy for Resource and Load Sharing in Mobile Computing Environment using Tickets"*, 2005

Visiting Assignment

- Head examiner of West Bengal Council of Higher Secondary (10+2) Examinations (State Level Examination), 2006-07.
- Paper-setter of West Bengal Council of Higher Secondary (10+2) Examinations (State Level Examination), 2007-08.
- Acted as an External Examiner for evaluating Final year sessional exam. in the year 2008 at RCC Institute of Informational Technology, Kolkata, India
- Visiting Faculty, Gate Forum, India till date

Contribution to Continuing Education

- Delivered lectures on "HTML" in short-term evening course for school leaving students, organized by Project Impact, Jadavpur University, 2002.
- Delivered lectures on "Object Oriented Programming" in short-term evening course for school leaving students, organized by Project Impact, Jadavpur University, 2003.
- Delivered lectures in "Induction Training for employee of Wipro" organized by Project Impact, Jadavpur University, 2005

- Delivered lectures on "Object Oriented Programming" in "Induction Training for employee of Cognizant Technology Solutions (CTS) "Organized by Dept. of Computer Science & Engg, Calcutta University, 2006

- Delivered Lectures on "Advanced Java", organized by "PervCom Consulting Pvt. Ltd. 195A, Jodhpur Park, Kolkata – 700068, West Bengal, India", 2006

- Delivered lectures on "Wireless and Mobile Protocols" at Center for Mobile Computing and Communications, Jadavpur University, Kolkata, India, 2006

- Delivered lectures on "Operating Systems" in "Refresher Course" organized by "WEBEL" at Taratala complex, 2007

- Delivered lectures on "Java" in "Induction Training for employee of Tech Mahindra", organized by Project Impact, Jadavpur University, 2007

- Delivered lectures on "Unix Shell programming" in "Induction Training for employee of Tech Mahindra", organized by Project Impact, Jadavpur University, 2007

- Delivered lectures on Computer Networks at Department of Computer Science and Engineering, National Institute of Durgapur, West Bengal, India, 2007

- Delivered lectures on "Web Designing" in short term course "Short Term Course on Computational Tools & Open Source Software", organized by UGC Academic Staff College, Burdwan University, West Bengal Kolkata, on 29-08-2013

- Delivered guest lectures on "Web Technology and its Fundamentals" in S. G. M. Collecge of Engineering, Buldana, Maharashtra, 6-8 August, 2015

- Invited lectures on "Synthesizing Instrumental Music", Three days International Workshop on Computational Science and Technology at College of Engineering & Management, Kolaghat, West Bengal.

Network Administrative Activities done

Working as a system administrator in the Dept. of Information Technology, Jadavpur University having excellent hands-on experience in installing, configuring and maintaining different Linux and/or Windows based systems:

- Network Information Service (NIS)
- Network File System (NFS)
- Dynamic Host Configuration Protocol (DHCP)
- Domain Name System (DNS)
- Web Server (Apache)
- JSP Engine (Tomcat)
- JRun (an application server)
- Oracle 9i
- Rational Rose
- Borland Enterprise Server
- Sun Java Application Server,
- PC^2

Other Research Activities

Serving as referee
- 41st National Annual Convention Computer Society of India (CSI-2006).

- 5th Asian Mobile Computing Conference (AMOC-'07).
- ICIC '08 (International Conference on Intelligent Computing, 2008)
- ICIC '09 (International Conference on Intelligent Computing, 2009)
- IJCT '14(Journal of Computers & Technology, 2014, Vol 12, Issue 9)

Member of Organizing Committee
- Seminar on Recent Trends in Information Technology: Architecture, Modeling, Environment and Application, March 25, 2006, Organized by Department of Information Technology, Jadavpur University.

List of Academic/Professional References

1. **Prof. Somprakash Bondopadhyay**
   Dept. of Management Information Systems,
   Indian Institute of Management (IIM)
   Kolkata-700 104, India
   email: somprakash@iimcal.ac.in, somprakashb@gmail.com
   - 91.9231683443
   http://www.iimcal.ac.in/faculty/facpage.asp?ID=somprakash&tab=1

2. **Prof. Samiran Chattopadhyay**
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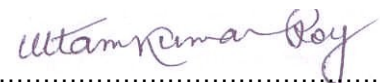   - 91.9830613450

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The information provided and statements made above are true and correct to the best of my knowledge.

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(Uttam Kumar Roy)