Dr. Subrata Dutta

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Present Status: I am working as an **Assistant Professor** in the department of **Computer Science and Engineering, National Institute of Technology, Jamshedpur**.

Work Experiences:

Name of Organization	From (dd/mm/yyyy)	To (dd/mm/yyyy)	Organization address	Position held
National Institute of Technology Jamshedpur	14/06/2018	Till Date	Adityapur, District Seraikela Kharsawan, Jamshedpur, Jharkhand 831014	Assistant Professor
University of the West of Scotland, UK	01/09/2016	02/07/2017	Paisley Campus, Scotland, UK, High St, Paisley PA1 2BE	Post Doctoral Researcher
Haldia Institute of Technology, West Bengal, India	02/04/2018	12/06/2018	Purba Medinipur, West Bengal 721631	Associate Professor
Haldia Institute of Technology, West Bengal, India	09/07/2015	01/04/2018	Purba Medinipur, West Bengal	Assistant Professor
Aliah University, Kolkata, India	19-01-2015	30-06-2015	Rajar Hat City, West Bengal, 700156	Guest Lecturer
Jadavpur University, Kolkata, India	01-07-2013	28-02-2015	Jadavpur, Kol-32, West Bengal	Senior Research Fellow
Jadavpur University, Kolkata, India	14-03-2008	14-03-2013	Jadavpur, Kol-32, West Bengal	Research Fellow
Guru Nanak Inst of Tech, West Bengal, India	11-09-2007	31-12-2007	197F Nilgunj road , Panihati, Kolkata -114, West Bengal	Lecturer
Institute of Genetic Engg, West Bengal, India	08-08-2006	02-09-2007	30-Thakurhat road, Badu, Kolkata-700128, West Bengal	Teaching Faculty.

Field of research interest: Wireless Sensor Network, Mobile Computing.

Core Subjects: Design Analysis and Algorithm, Wireless Sensor Network, Computer Networking, Cryptography, Operating System, Digital Electronics, Computer Graphics, Data Structure.

Computer Languages: C, Matlab.

Educational Qualifications:

Examination	Board	Subject	Institution Name	Year	% or Grade
Madhyamik	WBBSE	General	Dum Dum Baidyanath Institution	1998	84.75 %
Higher Secondary	WBCHSE	Science	Dum Dum Baidyanath Institution	2000	81.4 %
B.Tech	WBUT	Computer Science and Engg.	B.P.Poddar Institute of Management And Technology	2005	7.6
M.Tech	Jadavpur University	Computer Technology	Jadavpur University	2009	68.77%
PhD	Jadavpur University	Wireless Sensor Network	Jadavpur University	2015	73.5% Course Work
Post Doc	University of the West of Scotland, UK	Wireless Sensor Network	University of the West of Scotland, UK	2017	NA

Received Award:
1. Best paper Award for the paper titled **"A Comparative Study on Efficiency of Different Wireless Sensor Network Routing Algorithms in Terms of Energy Dissipation"** in the international conference ICIP-2010 which was held in Bangalore, India on 6-8th August, 2010.
2. Erasmas Mundus Fellowship given by Europian Eunion.
3. UGC fellowship for meritorious students in Science and Technology.

Course Attended:
1. Attended UGC refreshers course on 'Theoretical Aspects of Computer Science' in Jadavpur University, Kolkata (11/Jan/2007 to 2/Feb/2007).
2. Faculty Development Program (FDP) on Research Challenges of Modern Computer Technologies (01/Aug/2016 – 05/Aug/2016) organised by Dept of Computer Science and Engineering, Haldia Institute of Technology.

Course Organised
1. Faculty Development Program (FDP) on Research Challenges of Modern Computer Technologies (01/Aug/2016 – 05/Aug/2016) organised by Dept of Computer Science and Engineering, Haldia Institute of Technology. I was acted as a Jt Secretary.

Invited Lecture:
1. I have given a lecture on "Localization on Sensor Network on 2nd Aug, 2016 in a Faculty Development Program at depth of CSE, Haldia Inst of Tech, India.

List of Research Publication

Journal Publication
1. **Subrata Dutta**, Mohammad S. Obaidat , KeshavDahal, Debasis Giri, Sarmistha Neogy , "Comparative Study of Different Cost Function Between Neighbors for Optimizing Energy Dissipation in WSN", IEEE System Journal, pp 1-12, DOI 10.1109/JSYST.2018.2800292, **Impact Factor: 3.88. SCI indexed**
2. **Subrata Dutta**, Nandini Mukherjee, Sarmistha Neogy, Sarbani Roy "A Comparative Study on Efficiency of Different Wireless Sensor Network Routing Algorithms", International Journal of Information Processing. 5(1), pp. 1-9, 2011, ISSN:0973-8215.
3. **Subrata Dutta**, Nandini Mukherjee, Monideepa Roy, Sarmistha Neogy, "A Study on efficient path selection algorithms for propagating data messages with a goal of optimizing energy dissipation in WSN**,** International Journal of Sensor Network, pp. 199-213, Vol. 15, No. 4, August,2014, ISSN print: 1748-1279. **SCI indexed**

Conference Publication
4. **Subrata Dutta**, Nandini Mukherjee, Sarmistha Neogy, Sarbani Roy "A Comparative Study on Efficiency of Different Wireless Sensor Network Routing Algorithms in Terms of Energy Dissipation", The Fourth International Conference on Information Processing (ICIP 2010), Bangalore, August 6-8, 2010, pp.271-280, published by: I.K. International Publishing House Pvt. Ltd., ISBN: 978-93-80578-46-0. Name of proceeding: Fourth International Conference on Information Processing. Winner of the best paper award. Out of 358 submitted papers, 116 papers have been accepted.
5. **Subrata Dutta**, Nandini Mukherjee, Sarmistha Neogy, Sarbani Roy, "A Comparison of the Efficiencies of Different Wireless Sensor Network Algorithms with respect to Time", The Second International conference on Networks & Communications (NeCoM-2010), Chennai, India July 23-25, 2010, pp.602-618, published by: Springer, ISBN:978-3-642-14492-9, Name of proceeding: Recent Trends in Networks and Communications.
6. **Subrata Dutta**, Nandini Mukherjee, Monideepa Roy and Sarmistha Neogy, "Efficient Path Selection to Propagate Data Message for Optimizing the Energy Dissipation in WSN" in The Fourth International Conference on Wireless & Mobile Networks (WiMoN-2012), Jul 13-15, 2012 in Chennai, India, pp. 671-683, Springer ISBN: 978-3-642-31513-8.
7. **Subrata Dutta**, Nandini Mukherjee and Sarmistha Neogy, "Location Estimation of Wireless Sensor Nodes using a few Beacon Nodes in a 2-D Geographical Area" in Applications and Innovations in Mobile Computing (AIMoC 2015). 12-14 Feb. 2015 , Kolkata, India, pp. pp. 81-88, IEEE explorer, **INSPEC Accession Number:** 15072642

8. Arindam Giri, **Subrata Dutta**, Sarmistha Neogy, "Enabling Agricultural Automation to Optimize Utilization of Water, Fertilizer and Insecticides by implementing Internet of Things (IoT) ", in InCITe 2016, Oct 6-7, 2016 in Noida,India pp. 125-131. IEEE explorer. **INSPEC Accession Number:** 16674057.
9. Jagannath Samanta, Jaydeb Bhaumik, Soma Barman, Sk. G. S. Hossain, Mandira Sahu and **Subrata Dutta**, "RS (255, 249) Codec Based on All Primitive Polynomials Over $GF(2^8)$", in the International conference on Communication, Devices, and Computing, Haldia, Lecture Notes in Electrical Engineering book series (LNEE, volume 470), pp. 60-81
10. Arindam Giri, **Subrata Dutta**, Sarmistha Neogy, Keshav Dahal, Zeeshan Pervez, "Internet of Things (IoT): A Survey on Architecture, Enabling Technologies, Applications and Challenges", International Conference on Internet of Things and Machine Learning, SCI,DBLP indexed, January 2017, DOI: 10.1145/3109761.3109768.

Journal Paper Communicated
1. **Subrata Dutta**, Mohammad S. Obaidat , KeshavDahal, Debasis Giri, Sarmistha Neogy "M-MEMHS: Modified Minimization of Error in Multi Hop System for Localization of an Unknown Sensor Nodes", IEEE System Journal. **Got revision**
2. **Subrata Dutta**, Debasis Giri, Mohammad S. Obaidat , KeshavDahal, Sarmistha Neogy, "Optimum Node Deployment Policy for Maximizing Lifetime of Wireless Sensor Network", IEEE Trans of Mobile Computing.
3. Arindam Giri, **Subrata Dutta**, Sarmistha Neogy, "OFCA: Optimized Fuzzy Clustering Algorithm for Wireless Sensor Networks", IEEE Transactions on Industrial Electronics

Book Chapter (Accepted)
1. Book Chapter (Accepted) Mohammad S. Obaidat, Soumya Prakash Rana, Tanmoy Maitra, Debasis Giri, and Subrata Dutta, Biometric-based Security Systems: State of the Art and Perspective, Chapter 18, by Cambridge University Press and IEEE, Chapter 18, Accepted

Personal Data:

Father's Name	:	Shree Juran Chandra Dutta
Mothers Name	:	Smt. Shelly Duta
Date of Birth	:	6th March, 1981.
Nationality	:	Indian
Sex	:	Male

Hobby: Gardening, Painting, Listening Song.

Declaration: I hereby declare the information furnished above is true to the best of knowledge.

Subrata Dutta

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(Subrata Dutta)