

Dr. Subrata Dutta

Dept of CSE, NIT Jamshedpur, India

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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, Westbengal	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	7.53 (CGPA)
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

PhD Guidance

Sl No.	Name of the student	Date of registration	Status
1.	Mr. Arindam Giri		Registered, Thesis will be submitted within 6 month. I am his second guide.
2.	Mr. Kailash Mishra		Registered and I am the sole guide.
3.	Ms. Madhvi Saxena		Registered and I am the sole guide.
4.	Mr. Sandeep Mahato		Registered and I am the sole guide.

M. Tech Guidance

Sl No	Name of the student	Thesis Title	Passing years
1.	Ms Tanushree Mandal	TRACE ANALYSIS AUTOMATION	2019
2.	Mr Manish Kumar	Automatic Orthogonal Defect Classification	2020
3.	Mr. Suman Kumar	CHME-LEACH, CHP-LEACH: An Approach to increase the Lifetime of Leach based protocol	2020
4.	Ms. Aneesha Das	NA	2021
5.	Ms. Zeenat Fathima	NA	2021

Received Award:

1. Erasmus Mundus Fellowship given by European Union in the year 2016.
2. UGC fellowship for meritorious students in Science and Technology in the year 2007.

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**.

Conference Organized

1. International Conference on IoT and its Application (ICIA-2020) (26-27th December). I was acted as a organizing secretary.

Invited Lecture:

1. Lecture on "Localization on Sensor Network" on 2nd Aug, 2016 in a Faculty Development Program at depth of CSE, Haldia Inst of Tech, India.
2. Lecture on "IoT Application and Security", on 10th November, 2020 in a Faculty Development Program at depth of CSE, Maulana Abul Kalam Azad University of Technology, West Bengal, India.

Membership in professional bodies

1. Member of IEEE, Membership number: 94408672

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,.

2. **Subrata Dutta**, Mohammad S. Obaidat , KeshavDahal, Debasis Giri, Sarmistha Neogy, "M-MEMHS: Modified Minimization of Error in Multihop System for Localization of Unknown Sensor Nodes", IEEE System Journal, 13 (1), pp. 215-225, DOI: 10.1109/JSYST.2018.2868231
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.
4. T Maitra, MS Obaidat, D Giri, **S Dutta**, K Dahal, "ElGamal cryptosystem-based secure authentication system for cloud-based IoT applications", IET Networks, pp. 289-298, Vol. 8, Issue 5.
5. Arindam Giri, **Subrata Dutta**, Sarmistha Neogy, "Information-theoretic approach for secure localization against sybil attack in wireless sensor network", Journal of Ambient Intelligence and Humanized Computing , <https://doi.org/10.1007/s12652-020-02690-9>

Conference Publication

1. **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.
2. **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.
3. **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**
4. 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**.
5. 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
6. 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.
7. Saxena, Madhvi, and **Subrata Dutta**. "Improved the efficiency of IoT in agriculture by introduction optimum energy harvesting in WSN." 2020 International Conference on Innovative Trends in Information Technology (ICITIIT). IEEE, 2020.
8. Giri, Arindam, **Subrata Dutta**, and Sarmistha Neogy. "Fuzzy Logic-Based Range-Free Localization for Wireless Sensor Networks in Agriculture." Advanced Computing and Systems for Security. Springer, Singapore, 2020. 3-12.

9. Shaw, A. K., Chakraborty, A., Mohapatra, D., & **Dutta, S.** (2020, October). Scalable IoT Solution using Cloud Services—An Automobile Industry Use Case. In 2020 Fourth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud)(I-SMAC) (pp. 326-331). IEEE.
10. Basu, Archita, Sujoy Mistry, Satanu Maity, and **Subrata Dutta.** "A Novel Energy Aware Resource Allocation Algorithm into a P2P Based Fog Computing Environment." In International Conference on Information, Communication and Computing Technology, pp. 88-97. Springer, Singapore, 2020.

Book Chapter

1. Arindam Giri, **Subrata Dutta**, Sarmistha Neogy , “Fuzzy Logic-Based Range-Free Localization for Wireless Sensor Networks in Agriculture”, Advanced Computing and Systems for Security , **pp 3-12, DOI** https://doi.org/10.1007/978-981-13-8962-7_1
2. MS Obaidat, SP Rana, T Maitra, D Giri, **S Dutta**, “Biometric Security and Internet of Things (IoT)”, Biometric-Based Physical and Cybersecurity Systems”, SpringerLink,pp-477-509.
3. Saxena, Madhvi, and **Subrata Dutta.** "An Overview of Internet of Things in Healthcare." Interoperability in IoT for Smart Systems (2020): 15-44.
4. Mahato, Sandeep, Kailash Chandra Mishra, **Subrata Dutta**, and Sujoy Mistry. "Security Issues and Challenges in IoT." In Interoperability in IoT for Smart Systems, pp. 115-136. CRC Press, 2020.
5. Giri, Arindam, **Subrata Dutta**, Kailash Chandra Mishra, and Sarmistha Neogy. "IoT Middleware Technology: Review and Challenges." Interoperability in IoT for Smart Systems (2020): 71-90.

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.

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