

SUBHRENDU CHATTOPADHYAY

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Current Position

Ph.D. Research Scholar (From July,2014) Department of Computer Science and Engineering
Indian Institute of Technology, Guwahati

Research Area

My research interests include Software Defined Networking, FOG Computing, Next Generation Wireless Networks, Distributed Algorithms and Performance Modeling of Network and Communication System. I am currently working under the supervision of **Prof. Sukumar Nandi**

Academic Qualification

Post Graduation: Master of Technology in Dept. of Computer Science and Engineering with **CGPA: 8.81/10** from Indian Institute of Technology, Guwahati (June 2012 - July 2014)

Graduation:Bachelor of Technology in Computer Science and Engineering with **CGPA: 8.04/10** from B.P Poddar Institute of Management and Technology, WestBengal University of Technology (July 2006 - June 2010)

Higher Secondary (10+2): with **77.5%** from Beldanga C.R.G.S High School, under West Bengal Council of Higher Secondary Examination (May, 2006)

Secondary (10): Madhyamik with **81.5%** from Sargachhi Ramakarishna Mission High School, under West Bengal Board of Secondary Education (April, 2003)

Teaching Assistance

1. **Teaching Assistant** in IIT, Guwahati For Operating Systems (CS341) (2018 Monsoon)
2. **Teaching Assistant** in IIT, Guwahati For Network Lab (CS343) (2016 Monsoon)
3. **Teaching Assistant** in IIT, Guwahati For Wireless Networks (CS551) (2015 Monsoon, 2017 Monsoon)
4. **Teaching Assistant** in IIT, Guwahati For Systems Lab (CS558) (2014 Winter,2015 Winter,2016 Winter,2018 Winter)
5. **Teaching Assistant** in IIT, Guwahati For Programming Lab (CS513) (2013 Monsoon, 2014 Monsoon)
6. **Teaching Assistant** in IIT, Guwahati For Computing Laboratory (CS110) (2013 Winter)
7. **Teaching Assistant** in IIT, Guwahati For Discrete Mathematics (CS202) (2012 Monsoon)

Professional Experience

Automation Test Engineer: Programmer Analyst Trainee in Cognizant Technology Solution India Pvt. Ltd. (July 2010 - July 2011)

Professional Certification: LOMA 280 certified with 99.2%

Voluntary Services

1. Conference Reviewer: IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS) 2014 - 2018.
2. Conference Reviewer: IEEE International Conference on Communications (ICC) 2017
3. Conference Reviewer: IEEE National Conference on Communication (NCC) 2017.

List of Publication

1. **Subhrendu Chattopadhyay**, Soumyajit Chatterjee, Sukumar Nandi and Sandip Chakraborty “**Aloe: Fault-Tolerant Network Management and Orchestration Framework for IoT Applications**” ACM/IEEE Transactions on Networking, (Under Major Revision)
2. **Subhrendu Chattopadhyay**, Sukumar Nandi, Sandip Chakraborty and Abhinandan Sridhara Rao Prasad “**Amalgam: Distributed Network Control With Scalable Service Chaining**” in the Proceedings of Nineteenth IFIP Networking 2020 (NETWORKING 2020), Paris, France, 22th-25th June, 2020.
3. Shubha Brata Nath, **Subhrendu Chattopadhyay**, Raja Karmakar, Sourav Kanti Addya, Sandip Chakraborty and Soumya K Ghosh “**PTC: Pick-Test-Choose to Place Containerized Micro-services in IoT**” in the Proceedings of the IEEE Global Communications Conference (Globecom 2019), Waikoloa, HI, USA, 9th-13th December, 2019.
4. **Subhrendu Chattopadhyay**, Soumyajit Chatterjee, Sukumar Nandi and Sandip Chakraborty “**Aloe: An Elastic Auto-Scaled and Self-stabilized Orchestration Framework for IoT Applications**” in the Proceedings of the Thity Eighth IEEE International Conference on Computer Communications (INFOCOM 2019), Paris, France, 29th April-2nd May, 2019.
5. **Subhrendu Chattopadhyay**, Samar Shailendra, Sukumar Nandi and Sandip Chakraborty “**Improving MPTCP Performance by Enabling Sub-Flow Selection over a SDN Supported Network**” in the Proceedings of the Fourteenth International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob 2018), Limassol, Cyprus, 15th-17th October, 2018.
6. Pranav Kumar Singh, **Subhrendu Chattopadhyay**, Pradeepkumar Gajendra Bhale and Sukumar Nandi, “**Fast and Secure Handoffs for V2I communication in Smart City Wi-Fi Deployment**” in the Proceedings of the Fourteenth International Conference on Distributed Computing and Internet Technology (ICDCIT 2018), Bhubaneswar, Odisha, India, January 11-13, 2018.
7. **Subhrendu Chattopadhyay**, Sukumar Nandi, Samar Shailendra, and Sandip Chakraborty, “**Poster: Primary Path Effect in Multi-Path TCP: How Serious Is It for Deployment Consideration?**” in the Proceedings of the Eighteenth ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc 2017), Chennai, India, July 10-14, 2017.
8. **Subhrendu Chattopadhyay**, Niladri Sett, Sukumar Nandi, and Sandip Chakraborty, “**Flipper: Fault-Tolerant Distributed Network Management and Control**” in Proceedings of the Fifteenth IFIP/IEEE International Symposium on Integrated Network Management (IM 2017), Lisbon, Portugal, May 8-12, 2017.
9. Niladri Sett, **Subhrendu Chattopadhyay**, Sanasam Ranbir Singh, and Sukumar Nandi, “**A time agnostic method for predicting dull nodes and links in evolving networks for data cleaning**” IEEE/WIC/ACM International Conference on Web Intelligence (WI 2016), Omaha, Nebraska, USA, October 13-16, 2016.
10. **Subhrendu Chattopadhyay**, Sandip Chakraborty, Sukumar Nandi, “**Leveraging the Trade-off Between Spatial Reuse and Channel Contention in Wireless Mesh Networks**” in the Proceedings of the Eighth International Conference on COMMunication System & NETworks (COMSNET 2016) , Bangalore, India, January 5-9, 2016 .
11. Sandip Chakraborty, **Subhrendu Chattopadhyay**, “**ES2: Managing Link Level Parameters for Elevating Data Rate and Stability in High Throughput WLAN**” in the

Proceedings of the Eighth International Conference on COMMunication System & NETWORKS (COMSNET 2016) , Bangalore, India, January 5-9, 2016 (**Best paper Award**).

12. Sandip Chakraborty, Sukumar Nandi, **Subhrendu Chattopadhyay**, “**Alleviating Hidden and Exposed Nodes in High-Throughput Wireless Mesh Networks**” in IEEE Transactions on Wireless Communications, Volume 15, Issue 2, Feb 2016, Pages 928-937.
13. Sushanta Karmakar, **Subhrendu Chattopadhyay**, “**A Trigger Counting Mechanism for Ring Topology**” in the Proceedings of the 37th Australasian Computer Science Conference (ACSC 2014) , Auckland, New Zealand, January 20-23, 2014
14. Sandip Chakraborty, **Subhrendu Chattopadhyay**, Suchetana Chakraborty, Sukumar Nandi, “**Defending Concealedness in IEEE 802.11n**” in the Proceedings of the Sixth International Conference on COMMunication System & NETWORKS (COMSNET 2014) , Bangalore, India, January 7-10, 2014.
15. Sandip Chakraborty, Sukumar Nandi, **Subhrendu Chattopadhyay**, “**Surpassing Flow Fairness in a Mesh Network: How to Ensure Equity among End Users?**” in the Proceedings of the Seventh IEEE International Conference on Advanced Networks and Telecommunication Systems (ANTS 2013), Chennai, India, December 15-18, 2013 (**Best paper Award**)