

Niloy Saha

Dept. of Computer Science & Engineering, IIT Kharagpur, Kharagpur, West Bengal 721302, India
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EDUCATION

Indian Institute of Technology, Kharagpur, West Bengal, India

- M.S. in Computer Science and Engineering 2016 – Present
 - Thesis: QoS-Aware Software-Defined Networks for IoT Applications
 - Advisor: Prof. Sudip Misra

Institute of Engineering and Management, Kolkata, West Bengal, India

- B.Tech. in Electronics and Communication Engineering 2011 – 2015
 - Cumulative GPA: 9.07 / 10.00

South Point School, Kolkata, West Bengal, India

- Higher Secondary, Science 2009 – 2011
 - Percentage: 86.28%
- Secondary, General 2009
 - Percentage: 86.11%

AREAS OF INTEREST

Software-Defined Networking, Internet of Things, Wireless Communications.

PUBLICATIONS

JOURNALS

- [1] N. Saha, S. Bera and S. Misra, “Sway: Traffic-Aware QoS Routing in Software-Defined IoT,” *IEEE Transactions on Emerging Topics in Computing*, 2018. DOI: 10.1109/TETC.2018.2847296.
- [2] S. Misra and N. Saha, “Detour: Dynamic Task Offloading in Software-Defined Fog for IoT Applications,” *IEEE Journal on Selected Areas in Communications*, 2019. DOI: 10.1109/JSAC.2019.2906793.

CONFERENCES

- [1] N. Saha, S. Misra and S. Bera, “QoS-Aware Adaptive Flow-rule Aggregation in Software-Defined IoT”, in *Proc. of the IEEE GLOBECOM, Abu Dhabi, UAE*, 2018. DOI: 10.1109/GLOCOM.2018.8647471
- [2] S. Bera, S. Misra, and N. Saha, “DynamITE: Dynamic Traffic Engineering in Software-Defined Cyber Physical Systems,” in *Proc. of the IEEE ICC Workshop on Communication, Computing, and Networking in Cyber Physical Systems*, Kansas City, Kansas, USA, 2018. DOI: 10.1109/ICCW.2018.8403550.

RESEARCH EXPERIENCE

Indian Institute of Technology, Kharagpur, West Bengal, India

- Junior Research Fellow Apr 2016 – Jun 2017
 - Project: Cloud-assisted WBAN-based Ubiquitous Healthcare Management System and its Application in Telemedicine
 - Supervisor: Prof. Sudip Misra
 - Focus: Development of communication architecture, experimental verification and clinical trials

PROFESSIONAL AFFILIATIONS & ACTIVITIES

Institute of Electrical and Electronics Engineers

- Graduate Student Member 2016 – Present
- Student Activity Committee, IIT Kharagpur Student Branch 2017 – 2018
- Treasurer, IIT Kharagpur Student Branch 2019 – Present

Reviewer, Peer-Review Journals

- IEEE Transactions on Mobile Computing
- IEEE J. on Selected Areas in Communications
- IEEE Transactions on Vehicular Technology

- IEEE Systems J.
- Int. J. of Communication Systems (Wiley)

TEACHING EXPERIENCE	Teaching Assistant , IIT Kharagpur	2016 – 2018
	<ul style="list-style-type: none"> ▪ Teaching assistant for Programming and Data Structures Lab (CS19001) ▪ Instructed undergraduate students by leading discussions, fielding questions, and grading lab assignments. 	
SKILLS	L ^A T _E X, MATLAB, NS-3, Mininet, POX/ONOS SDN Controllers, Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Microsoft Visio, C++, Java, Python.	
EXTRA CURRICULARS	Completed certified course on Fine Arts & Painting for four years.	
LANGUAGES	<ul style="list-style-type: none"> ▪ Bengali: Native language. ▪ English: Fluent (speaking, reading, writing). 	
INTERESTS	Photography, reading, badminton.	
REFERENCES	<ul style="list-style-type: none"> ▪ Dr. Sudip Misra Professor Department of Computer Science & Engineering Indian Institute of Technology Kharagpur-721302, West Bengal, India smisra@sit.iitkgp.ernet.in • +91-3222-282338 ▪ Dr. Soumen Moulik Assistant Professor Department of Electronics & Communication National Institute of Technology, Meghalaya Shillong, Meghalaya-793003, India mouliksoumen@gmail.com • +919836874418 	

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