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] <u>N. Saha</u>, 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.

CONFERENCES

[1] <u>N. Saha</u>, 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.

[2] S. Bera, S. Misra, and <u>N. Saha</u>, "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 – Present

Reviewer, Peer-Review Journals

- ■ IEEE Transactions on Vehicular Technology
- ■ Int. J. of Communication Networks and Distributed Systems (Inderscience)
- ■ Int. J. of Communication Systems (Wiley)

TEACHING EXPERIENCE

Teaching Assistant, IIT Kharagpur — 2016 – Present

- ■ Teaching assistant for Programming and Data Structures Lab (CS19001)
- ■ Instructed undergraduate students by leading discussions, fielding questions, and grading lab assignments.

SKILLS	LaTeX, 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

- Bengali: Native language.
- English: Fluent (speaking, reading, writing).

INTERESTS Photography, reading, badminton.

REFERENCES

- **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
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