

# ALAKESH KALITA

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## EDUCATION

<b>Indian Institute of Technology Guwahati, India</b> <i>Pursuing Ph.D., Industrial Internet of Things,</i>	<i>January 2018– Till</i>
<b>Assam Central University, India</b> <i>Master of Technology, Computer Science and Engineering,</i> CGPA: 8.34/10	<i>July 2014 - May 2016</i>
<b>Assam Don Bosco University, India</b> <i>Bachelor of Technology, Computer Science and Engineering,</i> CGPA: 7.26/10	<i>July 2008 - June 2012</i>
<b>Abheshwari H.S and M.P. School</b> <i>Class: (10+2), Percentage: 73%</i>	<i>2006 - 2008</i>
<b>Manikpur H.S. School, Assam, India</b> <i>Class: 10, Percentage: 76.83%</i>	<i>2005 - 2006</i>

## WORK EXPERIENCE

<b>Indian Institute of Technology Guwahati, India</b> <i>Research Scholar</i>	<i>January 2018 - Till</i>
<b>Indian Institute of Information Technology Guwahati, India</b> <i>Research Scholar &amp; Junior Research Fellow</i>	<i>July 2017 - December 2017</i>
<b>North-Eastern Hill University, Shillong, India</b> <i>Project Scientist</i>	<i>August 2016 - June 2017</i>
<b>Shriram Transport Finance Company Ltd.</b> <i>Management Trainee</i>	<i>September 2012 - October 2013</i>

## TEACHING ASSISTANTSHIP

<b>Indian Institute of Technology Guwahati, India</b> <ul style="list-style-type: none"><li>CS101: Introduction to Computing Lab (C Programming), January - July, 2018</li><li>CS343: Data Communication, July - December, 2018</li><li>CS348: Computer Networks, January - July, 2019, 2020</li><li>CS578: Internet of Things, July - December, 2019</li></ul>	<i>2018 - Till</i>
<b>Assam Central University, India</b> <ul style="list-style-type: none"><li>C Programming Lab</li></ul>	<i>2015 - 2016</i>

## PUBLICATIONS

### Journals

- **A. Kalita** and M. Khatua, “Channel Condition Based Dynamic Beacon Interval for Faster Formation of 6TiSCH Network,” in **IEEE Transaction on Mobile Computing**, **IF-4.47, Rank-A\* (Accepted)**, [Link](#)
- **A. Kalita** and M. Khatua, “Opportunistic Transmission of Control Packets for Faster Formation of 6TiSCH Network,” in **ACM Transaction on Internet of Things**, (Under Review, submitted major revision)
- **A. Kalita** and M. Khatua, “Autonomous Allocation and Scheduling of Minimal Cell in 6TiSCH Network,” in **IEEE Internet of Things Journal**, **IF-9.51 (Under Review)**

- **A. Kalita** and M. Khatua, “Modeling the Impact of Trickle Parameters in 6TiSCH Network Formation,” (To be submitted soon)

## Conferences

- **A. Kalita** and M. Khatua, “Opportunistic Priority Alternation Scheme for Faster Formation of 6TiSCH Network,” in 21st International Conference on Distributed Computing and Networking (ICDCN), Jan 2020, pp. 1-5. [Link](#)
- **A. Kalita** and M. Khatua, “Faster Joining in 6TiSCH Network using Dynamic Beacon Interval,” in 11th International Conference on Communication Systems Networks (COMSNETS), Jan 2019, pp. 454–457. [Link](#)
- **A. Kalita**, N. Ahmed, H. Rahman, and M. I. Hussain, “A QoS-aware MAC protocol for large-scale networks in Internet of Things,” in 2017 IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS), Dec 2017, pp. 1–6. [Link](#)
- **A. Kalita**, K. Ray, A. Biswas, and M. A. Hussain, “A topology for network-on-chip,” in 2016 International Conference on Information Communication and Embedded Systems (ICICES), Feb 2016, pp. 1–7. [Link](#)
- K. Ray, **A. Kalita**, A. Biswas, and M. A. Hussain, “A multipath network-on-chip topology,” in 2016 International Conference on Information Communication and Embedded Systems (ICICES), Feb 2016, pp. 1–7. [Link](#)
- A. Biswas, M. A. Hussain, and **A. Kalita**, “An improved congestion free modified fat tree network,” in 2016 International Conference on Signal Processing, Communication, Power and Embedded System (SCOPEs), Oct 2016, pp. 759-763. [Link](#)
- **A. Kalita**, A. Biswas, Md. Anwar Hussain, “A Multipath Fault Tolerant Topology for Network-On-Chip,” accepted in Springer, International Conference on Computing and Communication Systems 2016 (I3CS2016)-2016. ( **Withdrawn**)

## WORKSHOP & TRAINING

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- An active volunteer of in the organizing committee of the 3<sup>rd</sup> ISEA International Conference on Security and Privacy (ISEA-ISAP 2020) in IIT Guwahati from 27 Feb - 1 Mar 2020
- An active member of organizing committee in two days workshop on “Internet of Things: It’s Inside Out” at NEHU, Shillong, Meghalaya from 12 May - 13 May, 2017
- Faculty Development Programme (FDP) in “Cloud Computing with AWS” in association with IIIT Guwahati , organized by E&ICT Academy at IIIT Guwahati from 05 Dec - 10 Dec, 2016
- Two days workshop on “Internet of Things: A Gateway to Smart and Intelligent Future” at NIT Meghalaya, organized by E&ICT Academy in 2016
- Fifteen days Summer Training on Networking at IOCL, Bongaigaon in 2011

## ACHIEVEMENTS & AWARDS

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- Received travel grant to attend ICDCN’2020 conference from IIT Guwahati, India.
- Qualified NET’2019 with 98.9 percentile
- Received travel grant to attend COMSNETS’2019 conference from the conference organizer
- MHRD scholarship for Ph.D. (2018-till)
- Bagged second prize in Regional Innovators Conclave conducted by Government of Meghalaya for the “Smart Lighting Model”, Meghalaya, India 2017
- Qualified GATE’2017
- TEQIP-II scholarship during M-Tech (2014-2016)
- Bagged first prize in line follower robotics competition, was held in Assam University, India 2016

## TECHNICAL SKILLS

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<b>Technical Skill:</b>	Testbed setup
<b>Programming:</b>	C, C++
<b>Documentation language:</b>	LaTeX, Microsoft Word
<b>Databases:</b>	MySQL
<b>Software &amp; Tools:</b>	<b>Operating System:</b> Windows, Linux
	<b>Network Simulator:</b> Cooja, OMNeT++, NS-3
	<b>IDE:</b> NetBeans, Arduino, MATLAB, VB

## PROFESSIONAL MEMBERSHIP

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- ACM student membership since November 2019 (ID: 9926691)

Date: 04/07/2020

Place: IIT Guwahati



Signature