

Baha Uddin Kazi

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Email: bahauddinkazi@sce.carleton.ca

RESEARCH INTEREST

5G and beyond Networks, Data Science and Machine Learning, Performance Engineering and Modeling & Simulation

EDUCATION

PhD, Electrical and Computer Engineering August 2018 (Expected)

Carleton University

Thesis: Efficient Control Plane Algorithms for Multi-Cell Cooperative Cellular Networks

MASc, Computer Networks 2012

Ryerson University

Thesis: "Policy Disputes in BGP: Analysis, Detection and Proposed Solution"

MSc, Computer Science 2002

National University, Bangladesh

BSc, Computer Science 2000

National University, Bangladesh

AWARDS AND HONORS

Best Paper Awards, Runner-up, Communications and Networking Symposium (CNS), Spring Simulation Multi-Conference 2017.

Scholarships

Ontario Graduate Scholarship (OGS)

Dr. Rogers Kaye Memorial Scholarship

The Queen Elizabeth II Scholarship

Graduate Scholarship, Carleton University

Domestic Entrance Doctoral Award

Graduate Scholarship, Ryerson

Graduate Award, Ryerson

RESEARCH AND TEACHING EXPERIENCE

Research Assistant Sept. 2013-Till Now

Department of Systems and Computer Engineering, Carleton University

Research Assistant Sept. 2010-Aug. 2012

Department of Electrical & Computer Engineering, Ryerson University

Assistant Professor Sept. 2006-Aug. 2010

Information and Communication Technology

Bangladesh Institute of Bank Management (BIBM)

(Courses taught: Database Management System, Computer Networks, IT Security and Fraud Prevention, Information System Audit in Banks, Computer Applications in Banks and Business Math)

Lecturer May 2005-Aug. 2006

Department of Computer Science and Engineering

International Islamic University Chittagong, Bangladesh

(Courses taught: Object Oriented Programming, Data Structure and Algorithms, System Analysis & Design and Computer Networks)

Lecturer Apr. 2004-Apr.2005

Department of Computer Science and Engineering

University of Science and Technology Chittagong, Bangladesh

(Courses taught: Object Oriented Programming, Database Management System, Artificial Intelligence and System Analysis & Design)

TEACHING ASSISTANT

Department of Systems and Computer Engineering, Carleton University
Algorithm and Data Structure **Winter 2013-2018**
Distributed Networks Processing **Fall 2013-2017**

(Programming Languages: C++, Java, HTML5, JavaScript, PHP and MySQL, R)

Computer Networks Program, Ryerson University

LAN and WAN Switching **Fall 2011**
IP Protocols **Winter 2011**

(I also have experience with Blackboard as a TA)

STUDENT SUPERVISION

Co-supervised some MASc and undergraduate students, Advanced Real-Time Simulation (ARS) Lab, Carleton University.

CERTIFICATION

Cisco Certified Network Associate (CCNA)

Cisco Certified Academy Instructor (CCAI)

PATENT

[P1] Kazi, Baha Uddin G. A. Wainer, G. Boudreau and R. Casselman, "Coordinated Multi-Point (CoMP) Method and Systems Using a Coordination Station". Canada Patent P47112 US2, 2015

JOURNALS

[J4] Kazi, Baha Uddin, and Gabriel Wainer. "Next Generation Wireless Cellular Networks: Ultra-Dense Multi-Tier and Multi-Cell Cooperation Perspective" *Wireless Networks*, 2018. (Accepted)

[J3] Kazi, Baha Uddin, and Gabriel Wainer. "Integrated cellular framework for modeling ecosystems: Theory and applications." *SIMULATION: Transactions of The Society for Modeling and Simulation International*, 2017: 0037549717706007.

[J2] Shah Md. Ahsan HabibMd. Shihab Uddin Khan, Mahbubur Rahman Alam, Kaniz Rabbi, Baha Uddin Kazi. "Implication of The Use of Information and Communication Technology in Channeling Worker's Remittances to Bangladesh." Research Monograph, Bangladesh Institute of Bank Management (BIBM), 2011.

[J1] Khan, Md Shihab Uddin, Md Mahbubur Rahman Alam, and Kazi Baha Uddin. "IT Readiness of Banks for Business in Cyberspace." *Banking Research Series*, Bangladesh Institute of Bank Management (BIBM), 2010.

CONFERENCES

[C8] Kazi, Baha Uddin, and Gabriel Wainer. "Handover oscillation reduction in ultra-dense heterogeneous cellular networks using enhanced handover approach" In *Proceedings of the 21st Communications and Networking Symposium (CNS-2018)*, Society for Computer Simulation International, ACM, 2018.

[C7] Kazi, Baha Uddin, and Gabriel Wainer. "Handover enhancement for LTE-Advanced and beyond heterogeneous cellular networks." In *Proceedings of International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS-2017)*, pp. 1-8. IEEE, 2017.

[C6] Wainer, Gabriel, Mohammad Etemad, and Baha Uddin Kazi. "Modeling Coordinated Multipoint with a dynamic Coordination Station in LTE-A mobile networks." In *Proceedings of 14th IEEE International Conference on Networking, Sensing and Control (ICNSC-2017)* pp. 807-812. IEEE, 2017.

[C5] Kazi, Baha Uddin, Gabriel Wainer, and Victor Guimaraes da Silva. "Modeling and simulation of user mobility and handover in LTE and beyond mobile networks using DEVS formalism." In *Proceedings of the 20th Communications and Networking Symposium (CNS-2017)*, p. 1. Society for Computer Simulation International, ACM, 2017.

**PROFESSIONAL
ACTIVITIES**

[C4] Kazi, Baha Uddin, and Gabriel Wainer. "Formal modeling and simulation to analyze the dynamics of malware propagation in networks using Cell-DEVS." In Proceedings of the 20th Communications & Networking Symposium (CNS-2017), p. 6. Society for Computer Simulation International, ACM, 2017.

[C3] Kazi, Baha Uddin, Mohammad Etemad, Gabriel Wainer, and Gary Boudreau. "Signaling overhead and feedback delay reduction in heterogeneous multicell cooperative networks." In Proceedings of International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS-2016), pp. 1-8. IEEE, 2016.

[C2] Kazi, Baha Uddin, Mohammad Etemad, Gabriel Wainer, and Gary Boudreau. "Using elected coordination stations for CSI feedback on CoMP downlink transmissions." In Proceedings of International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS-2016), pp. 1-8. IEEE, 2016.

[C1] Shaikh, Md Sadeque Imam, Fazle A. Rabbi, and Kazi Baha Uddin. "E-governance in Bangladesh-survey, analysis and proposed recommendations." In 19th Telecommunications Forum (TELFOR-2011), pp. 55-58. IEEE, 2011.

Leadership

Session Chair, Security Protocols and Techniques, International Symposium on Performance Evaluation of Computer and Telecommunication Systems 2016 (SPECTS-2016)

Reviewer

IEEE Wireless Communications and Networking Conference (WCNC), 2018

Winter Simulation Multi-Conference, 2014, 2015, 2016, 2017

Summer Simulation Multi-Conference, 2014, 2015, 2016, 2017

Spring Simulation Multi-Conference, 2014, 2015, 2016, 2017

ACM SIGSIM Conference on Principles of Advanced Discrete Simulation, 2017

The 15th IEEE International Symposium on Network Computing and Applications (NCA), 2016

Technical Program Committee Member

International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS), Seattle, USA 2017

International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS), Bordeaux, France 2018

MEMBERSHIP

Student Member, IEEE

Student Member, SCS

Associate Member, Bangladesh Computer Society (BCS)

LANGUAGE

English, Bangla

CITIZENSHIP STATUS

Canadian

REFERENCES

Gabriel A. Wainer

Professor

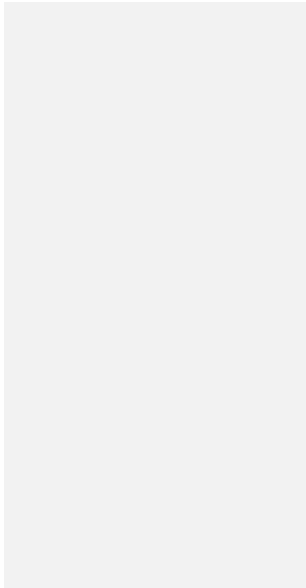
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Associate Professor
Federal University of Pernambuco
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