MD Iftakharul Islam

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EDUCATION

Ph.D.   Computer Science, Kent State University, Kent, OH, 2022

B.S.   Computer Science and Engineering, BUET, Dhaka, Bangladesh, 2008.

WORK EXPERIENCE

2022–   Juniper Networks
           Sunnyvale, CA.
           Software Engineer 3

2013–21   Kent State University
           Kent, OH.
           Graduate Assistant

RESEARCH AREAS

CGRA architecture modeling and functional simulation

Computer architecture

High-Level Synthesis for ASIC and FPGA

Network Algorithms

PHD DISSERTATION

An IPv6 Routing Table Lookup Algorithm in Software and ASIC by Designing a High-Level Synthesis System

PUBLICATIONS

2022   C. Higgs, A. Alderton, J. Rozek, D. Adlakha, H. Badland, G. Boeing, A. Both, E. Cerin, M. Chandrabose, C. De Gruyter, L. Gunn, A. De Livera, E. Hinckson, S. Liu, S. Mavoa, J. Sallis, K. Simons, and B. Giles-Corti. "Calculation of Policy-Relevant Spatial Indicators of Urban Liveability: Experiences of Scaling a Research Programme from Local to Global." *10th State of Australasian Cities Conference*. Melbourne, Australia: APO. doi:10.25916/jbnk-hp52

2019   G. Boeing. "Street Network Patterns, Orientation, and Entropy around the World." *Compendium of the Transportation Research Board 98th Annual Meeting*. Washington, DC: Transportation Research Board. https://trid.trb.org/view/1573315

2018   A. Abdelkader, G. Boeing, B. T. Fasy, and D. L. Millman. Topological Distance between Nonplanar Transportation Networks. *Proceedings of the 28th Fall Workshop on Computational Geometry*. New York, NY: City University of New York. https://bit.ly/3lHhqAD

2018   G. Boeing. "The Relative Circuity of Walkable and Drivable Urban Street Networks." *Compendium of the Transportation Research Board 97th Annual Meeting*. Washington, DC: Transportation Research Board. https://trid.trb.org/view/1495502

INVITED TALKS

2022   "Programming FPGAs in high level languages: challenges and opportunities" Kent State University, Choose Ohio First- Computer Science Program in Computer Science department. Kent, Ohio. Nov 18.

SERVICE

Academic Journal Peer Review

IEEE Transaction on Networking (ToN)

IEEE Journal of Selected Area of Communication (JSAC)

Journal of Parallel and Distributed Computing, Elsevier.

Journal of Computer Networks, Elsevier.

Shadow reviewer of Journal of Network and Computer Applications, Elsevier.

MEMBERSHIPS

Association for Computing Machinery (ACM)

Institute of Electrical and Electronics Engineers (IEEE)

PROFESSIONAL EMPLOYMENT

2009–13   Accenture, New York, New York; London, England; San Diego, California

2007–09   Permission Data, New York, New York

2004–07   Acumen Inc., Mesa, Arizona

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