

# 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 CAD algorithms  
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." *10<sup>th</sup> 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 98<sup>th</sup> 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 28<sup>th</sup> 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 97<sup>th</sup> 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

Updated February 2023