

MD Iftakharul Islam

Department of Computer Science
Kent State University
Kent, OH.

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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." *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

American Behavioral Scientist

American Journal of Sociology

American Sociological Review

Annals of the American Association of Geographers

Applied Network Science

Case Studies on Transport Policy

Cities

Computers, Environment and Urban Systems

Environment and Planning A: Economy and Space

Environment and Planning B: Urban Analytics and City Science

European Physical Journal: Data Science

Geo: Geography and Environment

Geographical Analysis

International Journal of Geographical Information Science

International Planning Studies

International Regional Science Review

ISPRS International Journal of Geo-Information

Journal of the American Planning Association

Journal of Open Source Education

Journal of Planning Education and Research

Journal of Planning Literature

Journal of Transport and Land Use

Journal of Transport Geography

Journal of Urban Design

Journal of Urban History

Journal of Urban Technology

Journal of Urbanism

Landscape and Urban Planning

Mathematics

Nonlinear Dynamics

Physica A: Statistical Mechanics and Its Applications

PLOS One
Proceedings of the National Academy of Sciences
The Professional Geographer
Region
Research in Transportation Economics
Scientific Reports
Social Forces
Social Indicators Research
Sustainability
Sustainable Cities and Society
Town Planning Review
Transactions in GIS
Transport Findings
Transport Policy
Transport Reviews
Transportation Research Part D: Transport and Environment
Transportation Research Record
Urban Design International
Urban Planning
Urban Science
Urban Studies

Academic Press Peer Review

Cambridge University Press
Routledge
Springer Nature

Funding Agency Peer Review

Israel Science Foundation
National Science Foundation
Research Grants Council of Hong Kong
Social Sciences and Humanities Research Council of Canada
United Arab Emirates University, Office of Associate Provost for Research

Service to the Field

Review and Appraisal Committee, Association of Collegiate Schools of Planning, 2021–22
Program Committee, Spatial Data Science Symposium, 2021–22
Co-Lead, Emerging Data and Technologies track, World Society for Transport and Land Use Research Conference, 2021

Outreach and Engagement Task Force, Association of Collegiate Schools of Planning, 2019–2021
Program Committee, Future Cities Challenge, 2019–20
Review and Appraisal Committee, Association of Collegiate Schools of Planning, 2018–20
Scientific Committee, Symposium on Simulation for Architecture and Urban Design, 2018–20
Book review editor, *Berkeley Planning Journal*, 2013–14

Service to the University

USC Healthy Campus Built Environment and Sustainability Committee, 2022–23
USC Price Ph.D. Degree Committee, 2020–23
USC Price Research Committee, 2020–21
USC Price Urban Planning and Development Ph.D. Admissions Subcommittee (chair), 2020–21
USC DUPSA Hiring Search Committee, 2019–20
Northeastern CSSH Standing Committee on Digital Proficiencies and Quantitative Methods, 2018–19
UC Berkeley DCRP Ph.D. program faculty representative, 2015–16
UC Berkeley DCRP Ph.D. program admissions committee, 2015–16

Doctoral Committees

Robert Binder, USC Price, exam committee
Seongmoon Cho, USC Price, exam committee
David Rosas Flores, USC Price, exam and dissertation committees
James Gross, USC Price, exam committee
Jaehyun Ha, USC Price, exam committee
Naomi Lee, USC Price, exam committee
Thu Nguyen, USC Price, exam committee
Clemens Pilgram, USC Price, exam and dissertation committees
Bonnie Wang, USC Price, exam committee
Mengya Xu, USC Spatial Sciences Institute, exam committee
Li Yi, USC Spatial Sciences Institute, exam and dissertation committees

Studio Review Jury

MIT, Workshop on Geographic Information Systems (Prof. Sarah Williams), Fall 2018

MEMBERSHIPS

American Association of Geographers
American Planning Association
Association of Collegiate Schools of Planning
Association for Computing Machinery
Complex Systems Society

Network Science Society
New York Academy of Sciences
Project Management Institute
Python Software Foundation
Regional Studies Association
Urban Affairs Association

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