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.

RESEARCH AREAS

CGRA and GPU architecture modeling High-Level Synthesis Network Algorithms

PHD DISSERTATION

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

PUBLICATIONS

- MD Iftakharul Islam, Javed I Khan "C2RTL: A High-level Synthesis System for IP Lookup and Packet Classification." *IEEE 22nd International Conference on High Performance Switching and Routing* (HPSR). Paris, France. doi:10.1109/HPSR52026.2021.9481810
- MD Iftakharul Islam, Javed I Khan "CP-Trie: Cumulative PopCount based Trie for IPv6 Routing Table Lookup in Software and ASIC." *IEEE 22nd International Conference on High Performance Switching and Routing (HPSR)*. Paris, France. doi:10.1109/HPSR52026.2021.9481816
- MD Iftakharul Islam, Javed I Khan "SAIL based FIB lookup in a programmable pipeline based Linux router." *IEEE 20th International Conference on High Performance Switching and Routing (HPSR)*. Xi'an, China. doi:10.1109/HPSR.2019.8808129
- MD Iftakharul Islam, Javed I Khan "Leveraging Domino to implement RCP in a stateful programmable pipeline." *IEEE 20th International Conference on High Performance Switching and Routing (HPSR)*. Xi'an, China. doi:10.1109/HPSR.2019.8808107
- MD Iftakharul Islam, Javed I Khan "A network-centric TCP for interactive video delivery networks (VDN)." *IEEE 25th International Conference on Network Protocols (ICNP) Workshop PVE-SDN*.

 Toronto, ON, Canada. doi:10.1109/ICNP.2017.8117596
- MD Iftakharul Islam, Javed I Khan "Video splicing techniques for P2P video streaming." *IEEE 35th International Conference on Distributed Computing Systems (ICDCS) Workshops.* Columbus, OH, USA. doi:10.1109/ICDCSW.2015.23
- 2009 MD Iftakharul Islam, Md Mostofa Akbar "Heuristic algorithm of the multiple-choice multidimensional knapsack problem (MMKP) for cluster computing." 12th International Conference on Computers and Information Technology. Dhaka, Bangladesh. doi:10.1109/ICCIT.2009.5407147

INVITED TALKS

"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.

MEMBERSHIPS

Association for Computing Machinery (ACM)
Institute of Electrical and Electronics Engineers (IEEE)

PROFESSIONAL EMPLOYMENT

2022	Software Engineer 3, Juniper Networks, Sunnyvale, CA, USA
2013-21	Graduate Teaching Assistant, Kent State University, Kent, OH, USA
2015–15	Software Engineer Intern, inContact, Columbus, OH, USA
2014-14	Software Engineer Intern, RightRez, Bloomington, IN, USA
2012-13	Senior Software Engineer, GenWeb2, Dhaka, Bangladesh.
2010-11	Software Engineer, KB Group, Dhaka, Bangladesh.
2009–10	Software Engineer, Arista Enterprises, Dhaka, Bangladesh.
2008-09	Software Engineer, SDSL, Dhaka, Bangladesh.

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