

Curriculum Vitae

Peyman Faizian

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General Information

University address: School of Computing
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Professional Preparation

2018 Ph.D., Florida State University. Major: Computer Science.
2016 M.S., Florida State University. Major: Computer Science.
2009 M.S., University of Tehran. Major: Algorithms and Computation.
2006 B.S., University of Tehran. Major: Computer Science.

Professional Experience

2018–present Assistant Professor, School of Computing, University of North Florida.
2016–2018 Graduate Research Assistant, Department of Computer Science, Florida State University.
2015 Intern, Datamaxx Group.
2013–2015 Graduate Research Assistant, College of Education, Florida State University.
2002–2012 Network/system Administrator, Sharif Industrial Co.

Language Proficiency

Farsi - native in speaking, reading, and writing.
English - fluent in speaking, reading, and writing.

Current Membership in Professional Organizations

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

Teaching

Courses Taught

Web Programming and Design (CGS3066)
Computer Science I (COP2220)
Computer Networks and Distributed Systems (CNT4504)
Data Structures (COP 3530)

New Course Development

Software Defined Networking (2019)

Master's Committee Member

Sam Matloob (2019)
Jeremy Futral (2018)

Research and Original Creative Work

Publications

Refereed Journal Articles

Lee, J., **Faizian, P.**, Tong, Z., Yuan, X., & Lang, M. (submitted). Enhancing InfiniBand with OpenFlow-Style SDN Capability. *ACM Transactions on Parallel Computing*. Manuscript submitted for publication.

- Mollah, A., Wang, W., **Faizian, P.**, Rahman, S., Yuan, X., Pakin, S., & Lang, M. (submitted). Modeling Universal Globally Adaptive Load-balanced Routing. *ACM Transactions on Parallel Computing*. Manuscript submitted for publication.
- Faizian, P.**, Alfaro, J., Rahman, S., Mollah, A., Yuan, X., Pakin, S., & Lang, M. (2018). TPR: Traffic Pattern-based Adaptive Routing for Dragonfly Networks. *IEEE Transactions on Multi-Scale Computing Systems*. 4(4), 931-943.
- Faizian, P.**, Mollah, A., Yuan, X., Pakin, S., & Lang, M. (2018). Random Regular Graph and Generalized De Bruijn Graph with k-shortest Path Routing. *IEEE Transactions on Parallel and Distributed Systems*, 29(1), 144-155. Retrieved from <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8013054&isnumber=8172504> doi:10.1109/TPDS.2017.2741492

Refereed Proceedings

- Mollah, A., **Faizian, P.**, Rahman, S., Yuan, X., Pakin, S., & Lang, M. (in press). A Comparative Study of Topology Design Approaches for HPC Interconnects. In *the 18th IEEE/ACM International Symposium on Cluster, Cloud, and Grid Computing* (10 pages). Washington DC.
- Faizian, P.**, Mollah, A., Tong, Z., Yuan, X., & Lang, M. (2017). A Comparative Study of SDN and Adaptive Routing on Dragonfly Networks. In *ACM/IEEE International Conference for High Performance Computing, Networking, Storage, and Analysis (SC)* (pp. 51:1-51:11). Denver, Co.
- Mollah, A., **Faizian, P.**, Rahman, S., Yuan, X., Pakin, S., & Lang, M. (2017). Modeling UGAL on the Dragonfly Topology. In Jarvis S., Wright S., Hammond S. (Ed.), *the SC17 workshop on Performance Modeling, Benchmarking and Simulation of High Performance Computer Systems (PMBS17)* (pp. 136-157). Springer, Cham.
- Faizian, P.**, Mollah, A., Rahman, S., Yuan, X., Pakin, S., & Lang, M. (2017). Throughput Models of Interconnection Networks: the Good, the Bad, and the Ugly. In *25th IEEE Annual Symposium on High Performance Interconnects (HotI)* (pp. 33-40). Santa clara, CA. Retrieved from <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8071054&isnumber=8071035>
- Faizian, P.**, Rahman, M., Mollah, A., Yuan, X., Pakin, S., & Lang, M. (2016). Traffic Pattern-based Adaptive Routing for Intra-group Communication in Dragonfly Networks. In *the 24th IEEE Annual Symposium on High Performance Interconnects (HotI)* (pp. 19-26). Santa Clara, CA.

Faizian, P., Mollah, A., Yuan, X., Pakin, S., & Lang, M. (2016). Random Regular Graph and De Bruijn Graph with k -shortest Path Routing. In *the 30th IEEE International Parallel & Distributed Symposium (IPDPS)* (pp. 10). Chicago, Illinois.

Presentations

Refereed Papers at Conferences

Faizian, P., Mollah, A., Tong, Z., Yuan, X., & Lang, M. (presented 2017, November). *A Comparative Study of SDN and Adaptive Routing on Dragonfly Networks*. Paper presented at ACM/IEEE International Conference for High Performance Computing, Networking, Storage, and Analysis (SC). Denver, CO.

Faizian, P., Mollah, A., Rahman, S., Yuan, X., Pakin, S., & Lang, M. (presented 2017, August). *Throughput Models of Interconnection Networks: the Good, the Bad, and the Ugly*. Paper presented at 25th IEEE Annual Symposium on High Performance Interconnects (HotI). Santa Clara, CA.

Faizian, P., Rahman, M., Mollah, A., Yuan, X., Pakin, S., & Lang, M. (presented 2016, August). *Traffic Pattern-based Adaptive Routing for Intra-group Communication in Dragonfly Networks*. Paper presented at the 24th IEEE Annual Symposium on High Performance Interconnects (HotI). Santa Clara, CA.

Faizian, P., Mollah, A., Yuan, X., Pakin, S., & Lang, M. (presented 2016, May). *Random Regular Graph and De Bruijn Graph with k -shortest Path Routing*. Paper presented at the 30th IEEE International Parallel & Distributed Processing Symposium (IPDPS). Chicago, IL.

Other Refereed Presentations

Faizian, P. (presented 2015, November). *On the Performance of Random Regular Topologies*. At Florida State University Computer Science Expo 2015.

Contracts and Grants

Contracts and Grants Funded

Faizian, Peyman. (October 2018). *PolyPi: A tiny, modular, portable and green supercomputer*. Funded by University of North Florida Academic Technology Grant. Total award \$1098.

Service

University of North Florida

UNF Departmental Service

Member, Diversity and Inclusion committee (2019–present).

Member, Suspension committee (2018–present).

Member, Cyber-Physical Systems Security Taskforce (2018–present).

Member, Computing Resources Committee (2018).

The Profession

Guest Reviewer for Refereed Conferences

IEEE HPCC (2017, 2019).

IEEE/ACM CCGrid (2017).

IEEE Big Data (2016).