

# MIRZA MOHD. SHAHRIAR MASWOOD

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## EDUCATION

❖ <b>PhD Candidate (Telecommunications &amp; Computer Networking)</b> University of Missouri-Kansas City, USA Expected: May 2018	Aug 2013 – Current (GPA:4.00/4.00)
❖ <b>Master of Science in Electrical Engineering</b> University of Missouri-Kansas City, USA	Aug 2013 – May 2015 (GPA:4.00/4.00)
❖ <b>Bachelor of Science in Electronics and Communication Engineering</b> Khulna University of Engineering & Technology, Khulna, Bangladesh	April 2010 (GPA:3.65/4.00)

## COURSE WORK

- Data Structure, Network Architecture, Network Routing, and Cloud Computing
- Advanced Radar, Satellite, Optical Fiber, and Wireless Communication
- Advanced Embedded System, Analog Integrated Circuit Design, VLSI, and Solar Cell

## LIST OF PUBLICATIONS

### International Journal

1. M. M. S. Maswood, C. Develder, E. Madeira, D. Medhi, "[Energy-Efficient Dynamic Virtual Network Traffic Engineering for North-South Traffic in Multi-Location Data Center Networks](#)," *Computer Networks*, vol. 125, pp. 90-102, 2017.
2. Md. Faisal Shuvo, Md. Abu Saleh Ovi, Md. Mehedi Hasan, Arifur Rahman, M.M.S. Maswood, "[Cost Effective System Modeling of Active Micro- Module Solar Tracker](#)," *International Journal of Advanced Computer Science and Applications*, Vol. 05, No. 01, pp. 188-193, 2014.
3. Rijvi Ahmed, A.H.M. Nazir Hossain, M.M. S. Maswood, "[Performance Analysis and Development of an Efficient Routing Scheme for IEEE 802.16/WiMAX Mesh Networks](#)," *ACEEE Int. J. on Network Security*, Vol. 01, No. 03, pp. 12-14, 2010.

### International Conference

1. M. M. S. Maswood, C. Develder, E. Madeira, D. Medhi, "[Dynamic virtual network traffic engineering with energy efficiency in multi-location data center networks](#)," in Proc. of the 28th International Teletraffic Congress, 2016, pp. 10–17.
2. M. M. S. Maswood, D. Medhi, "[Optimal Connectivity to Cloud Data Centers](#)," IEEE CloudNet, 25-27 September 2017 – Prague, Czech Republic.
3. MM Hasan, A Rahaman, M Talukder, M.M.S. Maswood, MM Rahman, "[Segmented Hidden NN - An Improved Structure of Feed Forward NN](#)," ICIEV, 2014.
4. Arifur Rahaman, Md. Mehedi Hasan, Riaz Ahmed, M.M.S. Maswood and Md. Mostafizur Rahman, "[A New Background Updating Model for Motion Detection Considering Future Frame](#)," 16th International Conference on Computer and Information Technology (ICCIT-2013).

5. Md. Mehedi Hasan, Arifur Rahaman, Munmun Talukder, Mobarakol Islam, M.M.S. Maswood and Md. Mostafizur Rahman, "[Neural Network Performance Analysis Using Hanning Window Function as Dynamic Learning Rate](#)," 2nd International Conference on Informatics, Electronics & Vision (ICIEV), pp. 1-5, May-17-18, 2013.
6. MM Hasan, A Rahaman, M.M.S. Maswood, MM Rahman, "[An Improved Method for 7- Segment Numeric Character Recognition](#)," 2nd International Conference on Informatics, Electronics & Vision (ICIEV), pp. 1-6, May-17-18, 2013.
7. Arifur Rahaman, Md. Mehedi Hasan, S. M. Nafiu Hossain, M. M. Farhad, Md. Nazmul Ahassan, M.M.S. Maswood, and Md. Mostafizur Rahman, "[An Efficient Background Updating Model for Motion Detection](#)," 2nd International Conference on Informatics, Electronics & Vision (ICIEV), pp. 1-5, May-17-18, 2013.

#### **International Journal (Under submission)**

1. Mirza Maswood, Ali Koleiny, Scott Nickell, Laura Wymer, Ronald Morris, Majid Bani-Yaghoub, and Jimmy Adegoke, "[Missouri Spring Freeze Event and Crop Loss Analysis for the Years 1982-2015](#)".

#### **International Conference (Under submission)**

1. M. M. S. Maswood, D. Medhi, "[An Adaptive Allocation Scheme for Load Balancing and SLA Maintenance in Multi-Location Data Center Networks](#)".
2. M. M. S. Maswood, Robayet Nasim, Andreas J. Kassler, D. Medhi, "[Cost-Efficient Resource Scheduling with QoS Constraints for Geo-Distributed Data Centers](#)".

## **SKILLS**

**Programming Language:** C, C++, Python, and Shell Scripting.

**Simulation:** CPLEX, AMPL, MATLAB, NS-2, Opnet, Packet Tracer, GNS3, Wireshark, Cadence, and CodeWarrior.

**Communication Engineering:** GSM, CDMA, VSAT, Fiber, WiMax, Satellite, RADAR, Signal Encoding, and Modulation.

**Computer Networking:** Configuring LAN, Configuring DNS, MAIL, PROXY Servers, TCP/IP, IPv6, Network security analysis, and CCNA Exploration 4.0.

## **WORK HISTORY**

### **University of Missouri-Kansas City, USA**

#### **Graduate Research Assistant**

Aug 2013 – Current

- Performs research in optimizing various network related cost e.g. bandwidth, energy consumption, data center maintenance cost.
- Evaluates the characteristics of traffic in data center networks.
- Performs research in data center architecture and next-generation network, load balancing among geo-distributed datacenters, mapping of virtual network on top of physical network, and cloud computing.

#### **Graduate Teaching Assistant**

Sep 2015 – Current

- **Instructor of Network Architecture-1 (CSEE 5110) (2 times including Fall 2017 semester)**

Introducing fundamental concepts and principles in the design and implementation of computer communication networks, their protocols, and architectures. Major topics include: layering, and addressing, naming, routing, internetworking, Internet protocols, reliable transfer, congestion control, link control, multiple media access, and network measurement and management.

- **Instructor of Engineering Computation (ECE 216/217) (5 times)**

Helping students to learn about developing, analysis and synthesis of structured computer programs for solving engineering problems in the Python, MATLAB, and C languages. Also, introduce them to algorithms and data structures. Furthermore, administering exams and grading scripts.

**Khulna University of Engineering and Technology, Khulna, Bangladesh**  
**Lecturer/Faculty (Electronics and Communication Engineering)**

March 2011 – June 2015

**Assistant Professor/Faculty (Electronics and Communication Engineering)** July 2015 – Current  
(Currently on study leave)

- Instructed courses e.g. C, C++, Analog and Digital Electronics, Computer Networking, and Wireless Communication.
- Prepared exam papers for the courses instructed.
- Helped students to develop different projects and supervised several undergraduate theses.
- Graded courses, tabulated final result, designed class routine, syllabus, and student learning outcome, managed treasury, worked as Assistant Provost.

#### **AWARDS/GRANTS**

- ❖ **Preparing Future Faculty Award** (Fall 2016 – Spring 2018)
- ❖ **School of Graduate Studies Research Grant** (Fall 2016 – Spring 2017)
- ❖ **Interdisciplinary Applied Math Fellowship** (Spring 2016 – Fall 2016)
- ❖ **Doctoral Fellowship** as recognition of the contributions in the research program (From Fall 2013 to Spring 2015).
- ❖ **Travel grant** from the National Science Foundation, USA to attend the 20th GENI Engineering Conference at UC Davis, CA, June 2014 and The GENI Research and Educational Experiment Summer Camp at Iowa State University, Ames, Iowa, July 2014.