

Md Raihan Uddin

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OBJECTIVES

Dedicated and detail-oriented individual with research experience seeking to contribute my skills and passion for modeling, simulation, and analyzing systems to a dynamic research team. Committed to advancing knowledge and making a meaningful impact through collaborative research projects.

RESEARCH INTEREST

- Modeling, simulation, and analysis
- Data analytics and visualization
- High performance computing
- Machine learning and artificial intelligence

EDUCATION

PhD in Electrical and Computer Engineering 01/2023-present
GPA: 4.00 out of 4.00
Wichita State University, Wichita, Kansas

Bachelor of Science in Electrical Electronic & Communication Engineering 01/2015-12/2018
CGPA 3.87 out of 4.00
Bangladesh University of Professionals, Mirpur Cantonment, Dhaka, Bangladesh

SKILLS

Computer Skills: C/C++, Python, MATLAB, Microsoft Office

Technical Skills: Modeling, Simulation, and Analysis

RELEVANT EXPERIENCE

Graduate Teaching Assistant (GTA) 01/2023-present
Wichita State University, Wichita, Kansas

- Graded the exam, quiz, and homework scripts to assist the professor in the ECE 875 (Computer System in Data Analytics) course in Spring 2023
- Graded the exam, quiz, and homework scripts to assist the professor in the ECE 394 (Introduction to Computer Architecture) course in Fall 2023

Graduate Research Assistant (GRA) 01/2023-present
Wichita State University, Wichita, Kansas

- Conduct experiments and tests using simulation tool VisualSim
- Collect and analyze different parameters to model heterogeneous systems
- Apply machine learning to automate system design

RELEVANT PROJECTS

A Cost and Computation Effective Method to Reduce Input Features Using Machine Learning (Spring 2023)

- Designed a methodology to reduce the number of input features by keeping the accuracy almost unchanged using permutation importance, random forest elimination with cross validation, and random forest importance features.
- The number of computations due to reduced features was reduced significantly.

Auto Bin Using Arduino and Sensors. (Spring 2018)

- Using the servo motor the mouth of the bin was automatized when the sensor sensed the presence of any person in front of it.
- Gave three different signals in three different conditions such as bin full, bin half or bin empty.

Power System Analysis Using Newton-Raphson & Gauss Seidel Method. (BS Final Project 2018)

- Analyzed the power system of Mirpur Cantonment Area in MATLAB using Newton-Raphson and Gauss Seidel Method.

PUBLICATIONS

- A. Asaduzzaman, L. Mercer, **M.R. Uddin**, Y. Woldeyes, "Modeling and Analyzing Wind Velocity at Entrance Doors to Avoid Accidents" accepted in IEEE High Performance Extreme Computing, MIT Lincoln Lab, MIT, Boston, 2023.
- A. Asaduzzaman, **M.R. Uddin**, G. S. Kutala, Y. Woldeyes, "Accuracy Analysis of Hotel Review Information Using Machine Learning" accepted in IEEE High Performance Extreme Computing, MIT Lincoln Lab, MIT, Boston, 2023.
- S.M. Hossain, S. Biswas, and **M.R. Uddin**, "Sustainable energy transition in Bangladesh: Challenges and pathways for the future," Engineering Reports, 17th Aug 2023, doi.org/10.1002/eng2.12752.

ACHIEVEMENTS

- DEAN's Certificate (Bachelor of Science)

REFERENCES

- Current Supervisor
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