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Biography

I am an associate professor of the Electrical & Computer Engineering Department (ECE) department of North South University (NSU), Dhaka, Bangladesh. I joined NSU in Dec 2015. I completed my PhD from Virginia Tech in Fall 2015. During my PhD, I worked as a Graduate Research Assistant (GRA) with my adviser, Dr. T. M. Murali, from the Summer of 2011 to the Fall of 2015. I worked as a Graduate Teaching Assistant (GTA) at Virginia Tech from Fall 2010 to Spring 2011. Before that, I worked as a lecturer at American International University Bangladesh (AIUB), Dhaka, Bangladesh. I received a B.Sc. in Computer Science & Engineering (CSE) from Bangladesh University of Engineering & Technology (BUET) in 2008.

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Research Areas

Artificial Intelligence & Robotics

Research Interests

Computational Systems Biology, Graph Mining, Machine Learning

Teaching

CSE 225 Data Structures and Algorithms

- CSE 225L Data Structures and Algorithms Lab
- CSE 373 Design and Analysis of Algorithms
- CSE 115 Programming Language I
- CSE 115L Programming Language I Lab
- CSE 173 Discrete Mathematics
- CSE 299 Junior Design Course
- CSE 498/EEE 498/ETE 498 Internship/Co-op/Directed Research
- CSE 511 Advanced Algorithms
- CSE 325/CSE 425 Concepts of Programming Language
- CSE 491 Special Topics
- CSE 551 Graph Theory

Selected Publications

Journals

- C. L. Poirel, A. Rahman, R. Rodrigues, A. Krishnan, J. R. Addesa, T. M. Murali, "Reconciling Gene Expression Data with Molecular Interaction Networks," Bioinformatics, 2013
- A. Rahman, C. L. Poirel, D. J. Badger, C. Estep, T. M. Murali, "Reverse Engineering Molecular Hypergraphs," IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB), 2013
- Badiuzzaman Pranto, Sk. Maliha Mehnaz, Esha Bintee Mahid, Imran Mahmud Sadman,
 Ahsanur Rahman, Sifat Momen, "Evaluating Machine Learning Methods for Predicting
 Diabetes among Female Patients in Bangladesh," Information, 2020
 Conference Papers
- A. Rahman, S. Jan, H. Kim, B. A. Prakash, and T. M. Murali, "Unstable Communities in Network Ensembles," 16th SIAM conference on Data Mining (SDM), 2016
- A. Rahman, S. Jan, H. Kim, B. A. Prakash, and T. M. Murali, "Mining Unstable Communities from Network Ensembles," 5th IEEE Workshop on Data Mining in Networks, 2015
- A. Rahman, C. L. Poirel, D. J. Badger, and T. M. Murali, "Reverse Engineering Molecular Hypergraphs," ACM Conference on Bioinformatics, Computational Biology and

- Biomedicine (ACM BCB), Orlando, FL, 2012., 2012.
- A. Rahman and M. R. Islam, "An approximation algorithm for bounded degree closest phylogenetic 2nd root problem," International Conference on Computer and Information Technology (ICCIT), 2010
- A. Rahman, "Load Balancing in DHT based P2P Networks," International Conference on Electrical and Computer Engineering (ICECE), 2008
- M. A. Rahman and M. A. Sattar, "A New Approach to Sort Unicode Bengali
 Text," International Conference on Electrical and Computer Engineering (ICECE), 2008
- M. S. Islam, M.R.J. Mahin, and A. Rahman, "A Data Analysis Pipeline for Identifying Periodic Processes during Drosophila Development," Proceedings of the 2nd International Conference on Advanced Computer Science and Information Systems (ICACSIS), 2020
- M. Chowdhury and A. Rahman, "Predicting Places of Revelation of Quran's
 Verses," International Conference on Computing & Information Technology (ICCIT 1441),
 2020
- F.I. Tahmid, F. Akbar, A. Rahman, "A Smart Cyberbullying Detection and Reporting System," Proceedings of the Seventh International Women in Data Science Conference at Prince Sultan University (WiDS PSU), 2024
- A. Rahman, K. Roy, R. Maliha, T.F. Chowdhury, "A Fast Exact Algorithm to Enumerate Maximal Pseudo-cliques in Large Sparse Graphs," Proceedings of the 30th ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2024

 Book Chapters
- A. Rahman and T. Motahar, "Big Graph Analytics," Invited Chapter in "Data Analytics:
 Concepts, Techniques and Applications", CRC Press, USA, 2018