

MIRZA MOHAMMAD LUTFE ELAHI [MLE]

Senior Lecturer & Web Coordinator

M.Sc.

in

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Biography

University,

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Mirza Mohammad Lutfe Elahi received a B.Sc. degree in Computer Science and Engineering from the University of Dhaka, Bangladesh. He pursued his M.Sc. in Computer Engineering at the University of Texas at Arlington, USA. He worked on modeling and simulation of a General Motors (GM) conveyor system using decision-making optimizer in Masters Thesis. He also worked in CISCO, Milpitas as a Software Engineer Intern. He joined North South University in 2011. His current research interests are primarily in Machine Learning and Computer Vision.

Research Areas

- Artificial Intelligence & Robotics

Research Interests

- Machine Learning
- Computer Vision

Teaching

- CSE 115 Programming Language I
- CSE 115L Programming Language I Lab
- CSE 445 Machine Learning
- CSE 299 Junior Design Course
- CSE499A/EEE499A/ETE499A – Senior Design I
- CSE499B/EEE499B/ETE499B – Senior Design II

Selected Publications

Journals

- Nahian Ahmed, Safin Mahmud, M. M. Lutfе Elahi, Silvia Ahmed, Mohammad Sujauddin, “Forecasting River Sediment Deposition through Satellite Image Driven Unsupervised Machine Learning Techniques,” Remote Sensing Applications: Society and Environment, Volume 13, Pages 435-444, 2019
- Mirza M. Lutfе Elahi, Karthik Rajpurohit, Jay M. Rosenberger, Gergely Zaruba, John Priest, “Optimizing real-time vehicle sequencing of a paint shop conveyor system,” Omega (The International Journal of Management Science), Volume 55, Pages 61-72, 2015

Conference Papers

- A. Kamal, M. M. Lutfе Elahi, Bruce Poon, M. Ashrafуl Amin, “Fusion Based Approach to Discovering Social Circles in Ego Networks,” International Conference on Machine Learning and Cybernetics (ICMLC), 2015
- M. Amirul Islam, M. Rasheduzzaman, M. M. Lutfе Elahi, Bruce Poon, M. Ashrafуl Amin, Hong Yan, “Feature Fusion for Robust Object Tracking,” International Conference on Wavelet Analysis and Pattern Recognition (ICWAPR), 2015
- M. M. Lutfе Elahi, R. Yasir, M. A. Syrus, M. S. Q. Z. Nine, I. Hossain, N. Ahmed, “Computer

Vision Based Road Traffic Accident and Anomaly Detection in the Context of Bangladesh,” International Conference on Informatics, Electronics and Vision (ICIEV), 2014

- Khondekar Mahabub Akram, M. M. Lutfel Elahi, M. Ashrafu! Amin, “Multiple Level Set Region based Single Line Road Extraction,” International Conference on in Machine Learning and Cybernetics (ICMLC), 2013

#### Research Projects & Grants

- Funding TK 500K BDT, North South University Innovation Funding, 2023-2024
- Funding TK 400K BDT, North South University Innovation Funding, 2018-2019
- Funding TK 300K BDT, North South University Innovation Funding, 2012-2013