DR. SALEKUL ISLAM [SLE]

Professor

Postdoctoral Fellow, Énergie Matériaux Télécommunications (EMT), Institut national de la recherche scientifique

(INRS),

PhD

MS

in

in

Computer

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BSc in Computer Science and Engineering, BUET, Bangladesh (2000)

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Biography

(2008-11)

Canada

Canada

(2008)

(2003)

Dr. Salekul Islam has been Professor of the Electrical and Computer Engineering (ECE) Department of North South University since 2024. Before that he served as a Professor of the Computer Science and Engineering (CSE) Department of United International University (UIU) since 2018, and was also the Head of the CSE Department of UIU for around nine years from 2014 to 2023. He was also in the position of the Director of Institutional Quality Assurance Cell (IQAC) and the Director of Centre for AI and Robotics (CAIR) at UIU. He guided and led students' teams from 2022 to 2024, to participate in the University Rover Challenge arranged by the Mars Society at Mars Desert Research Station, Hanksville, Utah. UIU teams secured the 5th, 9th and 13th position in 2024, 2023 and 2022, respectively.

Dr. Islam completed his PhD in Computer Science from Concordia University, Canada in 2008. He also worked as a Fonds de Recherche du Québec Nature et Technologies (FRQNT) Postdoctoral Fellow at Institut national de la recherche scientifique (INRS), Canada from 2008 to 2011. He was a Visiting Faculty Member of Anglia Ruskin University, UK in 2015. Dr. Islam was a member of the National Working Committee for preparing the Policy on Blended Learning Method. He is actively involved with Bangladesh Board of Accreditation for Engineering and Technical Education (BAETE) in different capacities including as a Member of the Board, member of the Task force for Preparing the OBE Manual, the Chair of the Evaluator Assessment Committee and the resource person for conducting several training sessions for the Evaluators and various engineering programs.

Dr. Islam's research areas mainly focus in Blockchain, Edge Cloud computing, network security, Image Processing, NLP and Robotics. He has been serving as an Associate Editor of IEEE Access and Frontiers in High Performance Computing journals. He served as the Organizing Chair of several international conferences. He is a Fellow of Institute of Engineers, Bangladesh (IEB) and is also a Senior Member of IEEE.

Following are some of his key skills and experiences:

▪ 13 years' experience (till 2024) of full-time teaching at the university level including curriculum development

▪ 23 years' experience ((till 2024) of research including writing research grants and leading research teams

▪ Profound knowledge in Outcome-Based Education (OBE) and accreditation

▪ Deep understanding of university management, especially private universities of

Bangladesh, 10 years experience in various administrative positions

▪ Hands-on experience in indexing and elevating positions in renowned university rankings

▪ Motivate and lead a large, diversified group of faculty members and students as well

Research Areas

▪ Data Networking and Information Security

▪ Artificial Intelligence & Robotics

▪ Signals and Image Processing

▪ Cloud Computing and Distributed Systems

Research Interests

▪ Cyber security

▪ Blockchain

▪ Cloud and edge computing

▪ Software-defined Networking (SDN)

▪ Future Internet

▪ Natural Language Processing (NLP)

▪ Computer Vision

▪ Machine Learning

List of Publications

a. Journal Articles

1. Md. Faiyaz Abdullah Sayeedi, Anas Mohammad Ishfaqul Muktadir Osmani, Taimur Rahman, Jannatul Ferdous Deepti, Raiyan Rahman, Salekul Islam, ElectroCom61: A Multiclass Dataset for Detection of Electronic Components, Data in Brief, 2025.

2. Mehedi Hasan Bijoy, Nahid Hossain, Salekul Islam, and Swakkhar Shatabda. A transformer-based

spelling error correction framework for Bangla and resource scarce Indic languages. Computer

Speech & Language, volume 89, page 101703, 2025.

3. Biswajit Paul, Chadi Assi, Georges Kaddoum, Rajesh Palit, and Salekul Islam. An energy

efficient
cluster formation based on optimal node distribution in full capacity multi-hop lora networks.
IEEE Open Journal of the Communications Society, volume 5, pages 779–794, 2024.
4. Md. Saddam Hossain Mukta, Jubaer Ahmad, Akib Zaman, and Salekul Islam. Attention and
meta-heuristic based general self-efficacy prediction model from multimodal social media dataset.
IEEE Access, 2024.
5. Muhammad Sakib Khan Inan, Nabila Sabrin Sworna, A.K.M. Muzahidul Islam, Salekul Islam,
Zulfikar Alom, Mohammad Abdul Azim, and Swakkhar Shatabda. A slice selection guided deep integrated pipeline for alzheimer's prediction from structural brain mri. Biomedical Signal
Processing and Control, volume 89, page 105773, 2024.
6. Lomat Haider Chowdhury, Salekul Islam, and Swakkhar Shatabda. A bengali news and public
opinion dataset from youtube. Data in Brief, volume 52, page 109938, 2024.
7. Md. Rakibul Islam, Md. Bokhtiar-Al-Zami, Biswajit Paul, Rajesh Palit, Jean-Charles Grégoire,
and Salekul Islam. Performance evaluation of multi-hop lorawan. IEEE Access, volume 11,
pages 50929–50945, 2023.
8. Md. Saddam Hossain Mukta, Jubaer Ahmad, Mohaimenul Azam Khan Raiaan, Salekul Islam,
Sami Azam, Mohammed Eunus Ali, and Mirjam Jonkman. An investigation of the effectiveness
of deepfake models and tools. Journal of Sensor and Actuator Networks, volume 12, 2023.

9. Mahafuja Khatun, Ridwan Arefin Islam, and Salekul Islam. B-sahic: A blockchain based secured
and automated health insurance claim processing system. Journal of Intelligent & Fuzzy Systems,
volume 44, pages 1–22. IOS Press, 2023.
10. Al Mohimanul Islam, Fatiha Binta Masud, Md. Rayhan Ahmed, Anam Ibn Jafar, Jeath Rahmat
Ullah, Salekul Islam, Swakkhar Shatabda, and A. K. M. Muzahidul Islam. An attentionguided
deep-learning-based network with bayesian optimization for forest fire classification and
localization. Forests, volume 14, 2023.
11. Nahid Hossain, Mehedi Hasan Bijoy, Salekul Islam, and Swakkhar Shatabda. Panini: a transformer-based grammatical error correction method for bangla. Neural Computing and
Applications, pages 1–15. Springer, 2023.
12. Zaheed Ahmed Bhuiyan, Salekul Islam, Md. Motaharul Islam, A. B. M. Ahasan Ullah, Farha Naz,
and Mohammad Shahriar Rahman. On the (in)security of the control plane of sdn architecture:
A survey. IEEE Access, volume 11, pages 91550–91582, 2023.

Teaching

- CSE 231 Digital Logic design
- CSE 438 Data Communication & Network