

CURRICULUM VITAE

MD. ALAMGIR HOSSAIN, Ph.D.

Professor

Department of Information and Communication Technology
Islamic University, 7003, Email: hossain@iu.ac.bd



OBJECTIVE

To achieve a challenging research-oriented work utilizing my ability in a well-organized environment and to develop my career as a successful researcher

INTERESTED FIELD OF STUDY

My area of specialization lies particularly in image processing, computer vision, machine learning, and its applications. I am especially interested in developing algorithms and representations

PERSONAL DETAIL

Date of birth: 14th July 1981

Marital status: Married

Number of Children: 1(one daughter)

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PROFESSIONAL EXPERIENCE

Chairman, Department of **Information and Communication Technolgy**, Islamic University, Kushtia-7003, Bangladesh (29th October 2022 – till to date)

Professor, Department of **Information and Communication Technolgy**, Islamic University, Kushtia-7003, Bangladesh (19th January 2024 – till to date)

Associate Professor, Department of **Information and Communication Technolgy**, Islamic University, Kushtia-7003, Bangladesh (19th January 2019 – 18th January 2024)

Ph.D. Researcher, Intelligent Cloud and Network Security Lab, Department of **Computer Science and Engineering**, Kyung Hee University, Yongin-si, Republic of Korea (1st March 2017 – 31th August 2021)

Lecturer and Assistant Professor, Department of **Information and Communication Engineering**, Islamic University, Kushtia-7003, Bangladesh (18th April 2010 – 18th January 2019)

Lecturer, Department of **Computer Science and Engineering**, Institute of Science Trade and Technology (ISTT), ISTT Bhaban, 57/8, Panthapath (west) Dhaka, Bangladesh(23rd October 2007- 17th April 2010)

Researcher

Computer Vision and Intelligence Interfacing Lab (CVIIL)

Dept. of Information and Communication Engineering

Islamic University, Kushtia-7003, Bangladesh (1st July 2012- 28th February 2017)

Coach

Department of Information and Communication Engineering, Islamic University, Kushtia-7003, Bangladesh

ACM- International Collegiate Programming Contest (ACM-ICPC)
Asia Regional Dhaka, (21st September 2014 - 28th February 2017)

SELECTED PUBLICATION

- [1] **Md Alamgir Hossain**, Md Imtiaz Hossain, Md Delowar Hossain, Eui-Nam Huh, DFC-D: A dynamic weight-based multiple features combination for real-time moving object detection, *Multimedia Tools and Applications* 81.22 (2022): 32549-32580
- [2] **Md Alamgir Hossain**, VanDung Nguyen, and Eui-Nam Huh, "The trade-off between accuracy and the complexity of real-time background subtraction," *IET Image Processing*, doi: 10.1049/ipt2.12026
- [3] **Md Alamgir Hossain**, Md Imtiaz Hossain, Md Delowar Hossain, Ngo Thien Thu, and Eui-Nam Huh, "Fast-D: When Non-smoothing Color Feature Meets Moving Object Detection in Real-time," *IEEE Access*, Oct. 2020, doi: 10.1109/ACCESS.2020.3030108.
- [4] **Md Alamgir Hossain**, Tien-Dung Nguyen, and Eui-Nam Huh, "A novel accuracy assessment model for video stabilization approaches based on background motion," *Turkish Journal of Electrical Engineering and Computer Sciences* 27, no. 2, pp. 1260-1275, 2019, doi:10.3906/elk-1810-68.
- [5] Eui-Nam Huh, **Alamgir Hossain**, Dao Tan Tri Nguyen, Md Delowar Hossain, Ga-Won Lee, "System and method for real-time object detection in video." **U.S. Patent Application** No. 17/666,843, 2022
- [6] Ngo Thien Thu, VanDung Nguyen, Xuan-Qui Pham, **Md Alamgir Hossain**, and Eui-Nam Huh, "Motion Saliency Detection for Surveillance Systems Using Streaming Dynamic Mode Decomposition," *Symmetry*, vol. 12, no. 9, pp.1397, 2020.
- [7] Md Imtiaz Hossain, Ashraf Siddique, **Md Alamgir Hossain**, Md Delowar Hossain, Eui-Nam Huh, "Batch Entropy Supervised Convolutional Neural Networks for Feature Extraction and Harmonizing for Action Recognition," *IEEE Access*, vol. 8, pp. 206427-206444, 2020, doi: 10.1109/ACCESS.2020.3037529.
- [8] Md Delowar Hossain, Tangina Sultana, **Md Alamgir Hossain**, Md Imtiaz Hossain, Luan N. T. Huynh, Junyoung Park and Eui-Nam Huh, "Fuzzy Decision-Based Efficient Task Offloading Management Scheme in Multi-Tier MEC-Enabled Networks," *Sensors*, vol. 21, no. 4, p. 1484, 2021, IF: 3.275.
- [9] Md. Delowar Hossain , Tangina Sultana , **Md. Alamgir Hossain** , Md. Abu Layek, Md. Imtiaz Hossain, Phoo Pyae Sone, Ga-Won Lee and Eui-Nam Huh "Dynamic Task Offloading for Cloud-Assisted Vehicular Edge Computing Networks: A Non-Cooperative Game Theoretic Approach" *Sensors* 22.10 (2022): 3678, IF: 3.275.
- [10] Md. Mehedi Hasan, A F M Shahab Uddin, Mostafijur Rahman Akhond, Md. Jashim Uddin, **Md. Alamgir Hossain** and Md. Alam Hossain "Machine Learning and Image Processing Techniques for Rice Disease Detection: A Critical Analysis." *International Journal of Plant Biology* 14.4 (2023): 1190-1207
- [11] **Md Alamgir Hossain**, Md Imtiaz Hossain, Md Delowar Hossain, Ga-Won Lee, and Eui-Nam Huh, " Performance Evaluation of Background Subtraction Based Moving Object Detection Approach," *KIISE Transactions on Computing Practices (KTCP)*, vol. 26, no. 10, pp. 442-450, 2020.
- [12] Md Delowar Hossain, Tangina Sultana, **Md Alamgir Hossain**, Ga-Won Lee, and Eui-Nam Huh, "Efficient Load Management in Multi-Access Edge Computing using Fuzzy Logic," *KIISE Transactions on Computing Practices (KTCP)*, vol. 26, no. 11, pp.482-492, 2020

ON-GOING AND COMPLETED PROJECTS

- [1] Deep learning method for segmentation of thoracic organs at risk using CT images
- [2] Digital Skills Training Program for Students - EDGE Project.
- [3] ViT-SRGAN-Based Enhanced Surveillance System
- [4] 3D Medical Image Synthesis Using Advanced Diffusion Model for Improved Visualization and Analysis

EDUCATION

Ph.D. in Computer Engineering in the Department of **Computer Science and Engineering**, Kyung Hee University, Yongin-si, Republic of Korea (1st March 2017 – 18th August 2021)

M. Sc. and B. Sc. (Honors) in Information and Communication Engineering

Islamic University, Kushtia-7003, Bangladesh

B.Sc. Result: 1st Class 4th in position (CGPA-3.74 out of 4)

M.Sc. Result: 1st Class 4th in position (CGPA-3.91 out of 4)

Higher Secondary Certificate (HSC) and Secondary School Certificate (SSC) in Science

Achievement: 1st Division (Star marks), 1st Division, respectively

TECHNICAL KNOWLEDGE

Fundamental:	Computer Fundamental, Operating Systems, and Ms-Office Package
Database:	SQL / Oracle 10g, MySQL, SQL Server
Web Development:	HTML, CSS, JAVASCRIPT, PHP, DHTML, ASP.NET
Programming Language:	C++, Matlab, C, C++, C#, Java, Python
Python framework:	Open CV, Pytorch, TensorFlow
Networking:	DNS, Web Server, DHCP, Configuring LAN / WAN

LANGUAGE PROFICIENCY

Bengali: Excellent in Reading, Listening, Writing, and Conversation

English: Very good in Reading, Listening, Writing, and Conversation

Korean: Very good in Reading, Writing and Listening

The medium of instruction in the M.Sc. and B.Sc. program is English

REFEREES

Eui-Nam Huh, Ph.D.	Md Zahidul Islam, Ph.D.
Professor	Professor
Department of Computer Science and	Department of Information and
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