

Dr. Md. Abdur Rahim

Associate Professor & Chairman, Dept. of Computer Science and Engineering, Pabna University of Science and Technology, Pabna, Bangladesh.



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Areas of interest

Human-computer Interaction, Computer Vision and Image Processing; Pattern Recognition; Machine Learning

Education

- 2020 Ph.D. in Computer Science and Engineering, The University of Aizu, Aizuwakamatsu, Fukushima, Japan.
- 2009 MSc in Computer Science and Engineering with First Class Second Position, GPA conversion: 3.95 (Out of 4.00 Scale) from University of Rajshahi, Rajshahi-6205, Bangladesh.
- 2008 BSc(HONOURS) in Computer Science and Engineering with First Class Second Position, CGPA conversion: 3.82 (Out of 4.00 Scale) from University of Rajshahi, Rajshahi-6205, Bangladesh.
- 2004 HIGHER SECONDARY CERTIFICATE (HSC) in Science with GPA: 4.90 (out of 5.00) from Bhurungamari Degree College, Bhurungamari, Kurigram, Bangladesh.
- 2002 SECONDARY SCHOOL CERTIFICATE (SSC) in Science with GPA: 4.38 (without 4th subject out of 5.00) from Bhurungamari Pilot High School, Bhurungamari, Kurigram, Bangladesh.

Ph.D. Dissertation

Title: Hand Gesture-based Non-touch Interface for Human-Computer Interaction Using Machine Learning Techniques

M.Sc. Thesis

Title: Face recognition using local binary patterns (LBP)

Undergraduate (B.Sc. Honours) Thesis

Title: Visual Recognition of Bengali Sign Language using Artificial Neural Network

Publications

JOURNAL ARTICLES (32)

- 2024 Md Imran Hossain, Md Abdur Rahim and Md. Najmul Hossain, “Single-Channel Speech Separation Based on double-density dual-tree CWT and SNMF”, *Annals of Emerging Technologies in Computing (AETiC)*, Print ISSN: 2516-0281, Online ISSN: 2516-029X, pp. 1-13, Vol. 8, No. 1, 1st January 2024, Published by International Association of Educators and Researchers (IAER), DOI: , Available:
DOI:<http://aetic.theiaer.org/archive/v8/v8n1/pi.html>
- 2023 Md. Najmul Hossain, Al Amin Islam, Md. Abdur Rahim, Md. Imran Hossain, and Arifour Rahman, “Design and Performance Analysis of Defected Ground Slotted Patch Antenna for Sub-6 GHz 5G Applications”, *Journal of Engineering Advancements*, Vol. 04(04) 2023, pp 130-140, 31 December, 2023.
DOI:<https://doi.org/10.38032/jea.2023.04.004>
- 2023 M. N. Hossain, H. A. Mamun, M. S. Islam, L. C. P., M. A. Rahim, M.M. Islam, M. A. Islam, M. A. Rahman, “Challenges and Possible Solutions of Implementing 5G Mobile Networks in Bangladesh”, *Mobile Information Systems*, Volume 2023, Article ID 9586126, 14 pages, 5 December 2023.
DOI:<https://doi.org/10.1155/2023/958612>
- 2023 Md. Najmul Hossain, Al Amin Islam, Jungpil Shin, **Md Abdur Rahim**, Md. Humayun Kabir, “Performance Evaluation of Slotted Star-Shaped Dual-band Patch Antenna for Satellite Communication and 5G Services”, *I.J. Wireless and Microwave Technologies*, 2023, 3, 49-63, Published Online on June 8, 2023, by MECS.
DOI:[10.5815/ijwmt.2023.03.05](https://doi.org/10.5815/ijwmt.2023.03.05)
- 2023 Liton Chandra Paul, Akash Majumder, Tithi Rani, Md. Najmul Hossain, **Md Abdur Rahim**, Jungpil Shin, and Keun Soo Yun, “Design and Analysis of an

- UWB Slotted Vivaldi Antenna for Microwave Imaging Applications”, IEIE Transactions on Smart Processing and Computing, 2023., DOI:, Available:.
DOI:
- 2023 **Md Abdur Rahim**, Md Alfaz Hossain, Md Najmul Hossain, Jungpil Shin and Keun Soo Yun, “Stacked Ensemble-Based Diabetes Type-2 Prediction Using Machine Learning Techniques”, Annals of Emerging Technologies in Computing (AETiC), Print ISSN: 2516-0281, Online ISSN: 2516-029X, pp. 30-39, Vol. 7, No. 1, 1st January 2023, Published by International Association for Educators and Researchers (IAER), DOI: 10.33166/AETiC.2023.01.003, Available: <http://aetic.theiaer.org/archive/v7/v7n1/p3.html>.
DOI:<http://aetic.theiaer.org/archive/v7/v7n1/p3.html>
- 2022 Abu Saleh Musa Miah, Jungpil Shin, Md. Al Mehedi Hasan, **Md Abdur Rahim**, and Yuichi Okuyama, "Rotation, Translation and Scale-Invariant Sign Word Recognition Using Efficient Segmentation and Deep Learning”, Computer Systems Science and Engineering, Vol.44, No.3, 2023, pp.2521-2536.
DOI:[10.32604/csse.2023.029336](https://doi.org/10.32604/csse.2023.029336)
- 2022 Md. Najmul Hossain, Liton Chandra Paul, **Md Abdur Rahim**, and Jungpil Shin, "Multiband Slotted Crescent-shaped Patch Antenna for K-band Satellite and mmWave Communications", IEIE Transactions on Smart Processing and Computing, vol. 11, no. 3, June 2022.
AVAILABLE:<https://doi.org/10.5573/IEIESPC.2022.11.3.213>
- 2022 Md Nur Alam, Onur Alp İlhan, Md. Sabur Uddin, and **Md Abdur Rahim**, "Regarding on the Results for the Fractional Clannish Random Walker’s Parabolic Equation and the Nonlinear Fractional Cahn-Allen Equation”, Advances in Mathematical Physics, vol. 2022, Article ID 5635514, 12 pages, 2022. AVAILABLE:<https://doi.org/10.1155/2022/5635514>
- 2022 Abu Saleh Musa Miah, Jungpil Shin, Md. Al Mehedi Hasan, and **Md Abdur Rahim**, "BenSignNet: Bengali Sign Language Alphabet Recognition using Concatenated Segmentation and Convolutional Neural Network”, Appl. Sci. 2022, 12(8), 3933. AVAILABLE:<https://doi.org/10.3390/app12083933>
- 2022 **Md Abdur Rahim**, Jungpil Shin, Keun Soo Yun, Soft Voting-based Ensemble Model for Bengali Sign Gesture Recognition”, Annals of Emerging Technologies in Computing (AETiC), Print ISSN: 2516-0281, Online ISSN: 2516-029X, pp. 41-49, Vol. 6, No. 2, 1st April 2022, Published by International Association for Educators and Researchers (IAER).
AVAILABLE:[10.33166/AETiC.2022.02.003](https://doi.org/10.33166/AETiC.2022.02.003)
- 2021 Hijaz Ahmad, Nur Alam, **Md Abdur Rahim**, Maged F Alotaibi, Mohamed Omri, The unified technique for the nonlinear time-fractional model with the beta-derivative. Results in Physics. 2021 Sep 11:104785.

AVAILABLE:<https://doi.org/10.1016/j.rinp.2021.104785>

- 2020 Abu Saleh Musa Miah, **Md Abdur Rahim**, and Jungpil Shin, "Motor-Imagery Classification Using Riemannian Geometry with Median Absolute Deviation." *Electronics* (MDPI), Vol. 9, Issue. 10, p.1584, September, 2020. ISSN 2079-9292; CODEN: ELECGJ. **SCIE Indexed**
AVAILABLE:<https://doi.org/10.3390/electronics9101584>
- 2020 **Md Abdur Rahim**, Jungpil Shin and Keun Soo Yun, "Hand Gesture-based Sign Alphabet Recognition and Sentence Interpretation using a Convolutional Neural Network", *Annals of Emerging Technologies in Computing (AETiC)*, Print ISSN: 2516-0281, Online ISSN: 2516-029X, pp. 19-26, Vol. 4, No. 4, 1st October 2020, Published by International Association of Educators and Researchers (IAER), DOI: 10.33166/AETiC.2020.04.003. **Scopus Indexed**
AVAILABLE:<http://aetic.theiaer.org/archive/v4/v4n4/p3.html>
- 2020 **Md Abdur Rahim**, Jungpil Shin, "Hand Movement Activity-Based Character Input System on a Virtual Keyboard," *Electronics*, 2020, 9(5), 774. **SCIE Indexed**.
DOI:<https://doi.org/10.3390/electronics9050774>
- 2020 **Md Abdur Rahim**, Jungpil Shin, Md Rashedul Islam, "Hand Gesture Recognition-Based Non-Touch Character Writing System on a Virtual Keyboard," *Multimedia Tools And Applications*., 1-24. **SCIE Indexed**.
DOI:<https://doi.org/10.1007/s11042-019-08448-6>
- 2019 Jungpil Shin, **Md Abdur Rahim**, Md Rashedul Islam, and Keun Soo Yun, "A Novel Approach of Cursive Signature Generation for Personal Identity," *International Journal of Computer Applications in Technology*., Vol. 62, No. 4, pp. 384-394, May, 2020.
DOI:<https://doi.org/10.1504/IJCAT.2020.10029607>
- 2019 **Md Abdur Rahim**, Jungpil Shin, and Md Rashedul Islam, "Gestural flick input-based non-touch interface for character input," *The Visual Computer*. 2019:1-4. **SCIE Indexed**.
DOI:<https://doi.org/10.1007/s00371-019-01758-8>
- 2019 **Md Abdur Rahim**, Md Rashedul Islam, Jungpil Shin, "Non-Touch Sign Word Recognition Based on Dynamic Hand Gesture Using Hybrid Segmentation and CNN Feature Fusion," *Applied Sciences*. 2019, 9(18), 3790. **SCIE Index**.
DOI: <https://doi.org/10.3390/app9183790>
- 2019 Jungpil Shin, **Md Abdur Rahim**, Won-Du Chang, "Learning System for Japanese Kanji Calligraphy with Computerized Supervision," *Symmetry*. 2019, 11, 1071. **SCIE Indexed**.

DOI: <https://doi.org/10.3390/sym11091071>

- 2019 Jungpil Shin, Md Rashedul Islam, **Md Abdur Rahim**, and Hyung-Jin Mun, "Arm movement activity based user authentication in P2P systems," *Peer-to-Peer Networking and Applications*. pp.1-12, 2019. **SCIE Indexed**.
DOI: <https://doi.org/10.1007/s12083-019-00775-7>
- 2019 Jungpil Shin, Cheol Min Kim, **Md Abdur Rahim**, "Simulating oriental brush character considered with aerial action of pen tablet", *Multimedia Tools and Applications*. pp. 1-19, 2019. **SCIE Indexed**.
DOI: <https://doi.org/10.1007/s11042-019-7287-z>
- 2018 Jungpil Shin, **Md Abdur Rahim**, and Keun Soo Yun, "Panoramic Image Stitching with Efficient Brightness Fusion Using RANSAC Algorithm," *International Journal of Engineering & Technology*, vol. 7, no 3,34, pp. 267-272, 2018. **Scopus Indexed**.
DOI: <https://doi.org/10.14419/ijet.v7i3.34.18981>
- 2015 Md. Khaled Ben Islam, Julia Rahman, Md. Al Mehedi Hasan, and **Md Abdur Rahim**, "Protein Function Prediction Using Hypergeometric Distance with Background Frequency from Protein-Protein Interaction Network," *International Journal of Computational Bioinformatics and in Silico Modeling*, vol. 4 no. 3, pp. 667-672, 2015.
- 2015 Md. Niaz Imtiaz, **Md Abdur Rahim**, "An Improved Energy Efficient Optimized Link-State Routing Protocol for Mobile Ad-hoc Sensor Networks," *International Journal of Information Technology and Electrical Engineering (ITEE Journal)*, vol. 4 no. 4, Aug 2015.
- 2014 **Md Abdur Rahim**, Tanzillah Wahid, and Md. Khaled Ben Islam, "Visual Recognition of Bengali Sign Language using Artificial Neural Network," *International Journal of Computer Applications*, vol. 94 no. 17, pp. 0975-8887, May 2014.
- 2014 Iffat Ara, Md. Najmul Hossain, and **Md Abdur Rahim**, "ECG Signal Analysis Using Wavelet Transform," *International Journal of Scientific & Engineering Research*, vol. 5, no. 5, May-2014.
- 2014 Pronab Kumar Mondal, Uzzal Kumar Prodhan, Md. Selim Al Mamun, **Md Abdur Rahim**, Kazi Kamal Hossain, "Segmentation of White Blood Cells Using Fuzzy C Means Segmentation Algorithm," *IOSR Journal of Computer Engineering (IOSR-JCE)*, vol. 1 no. 9, pp. 466-470, 2013.
- 2013 **Md Abdur Rahim**, Md. Najmul Hossain, Tanzillah Wahid and Md. Shaful Azam, "Face Recognition using Local Binary Patterns (LBP)," *Global Journal*

of Computer Science and Technology, vol. XIII, no. IV, 2013.

- 2013 Md. Najmul Hossain, **Md Abdur Rahim**, Md. Rashedul Islam, Md. Shafiul Azam, "Performance Analysis of Nash and Power Balancing Algorithms for SIR-Based Power Control in CDMA Networks," *International Journal of Scientific & Engineering Research*, vol. 4 no. 5, May 2013.
- 2013 Md. Najmul Hossain, **Md Abdur Rahim**, Iffa Ara, "SIR-Based Power Control Algorithms in CDMA Networks." *Global Journal of Computer Science and Technology*, vol. 13, Issue. 10, 2013.
- 2013 Md. Rashedul Islam, Md. Babul Islam, Md. Firoz Ahmed, Md. Najmul Hossain, **Md Abdur Rahim**, "MEL-LP BASED GENERALIZED CEPSTRAL ANALYSIS FOR NOISY SPEECH RECOGNITION USING HMM," *International Journal of scientific research and management (IJSRM)*, vol. 1 no. 9, pp. 466-470, 2013.

INTERNATIONAL CONFERENCES (15)

- 2023 Hemel Sharker Akash, **Md Abdur Rahim**, Abu Saleh Musa Miah, Yuichi Okuyama, Yoichi Tomioka and Jungpil Shin, "Generalized Technique for Potato Leaves Disease Classification using Convolutional Neural Network", in *8th International Conference on ICT for Sustainable Development*, August 3rd -4th, 2023, Goa, India.
- 2023 M. S. Rana, N. K. Podder, H. K. Rana, M. I. Hasan, M. S. Azam, **M. A. Rahim**, SM H. S. Iqbal, S. Saha, "Identification of Genomic Associations Between Parkinson's and Neurodegenerative Diseases Using Bioinformatics Models", In *International Conference on Electrical, Computer and Communication Engineering (EECE)*, Feb. 23-25, 2023, Chittagong, Bangladesh.
- 2022 N. K. Podder, A. K. Puza, H. K. Rana, B. C. Podder, M. H. Sumon, N. J. Rinvi, **M. A. Rahim** and P. C. Shill, "Identification of Influential Genes and Comorbidities of Colorectal Cancer," 2022 International Conference on Recent Progresses in Science, Engineering and Technology (ICRPSET) 2022.
- 2020 Jungpil Shin, **Md Abdur Rahim**, Okuyama Yuichi, Yoichi Tomioka, "Deep Learning-based Hand Pose Estimation from 2D Image," In *2020 3rd IEEE International Conference on Knowledge Innovation and Invention (ICKII) 2020* Aug 21 (pp. 108-110). IEEE.
DOI: [10.1109/ICKII50300.2020.9318917](https://doi.org/10.1109/ICKII50300.2020.9318917)
- 2020 **Md Abdur Rahim**, Miah AS, Sayeed A, Shin J. Hand Gesture Recognition Based on Optimal Segmentation in Human-Computer Interaction. In *2020 3rd IEEE International Conference on Knowledge Innovation and Invention (ICKII) 2020* Aug 21 (pp. 163-166). IEEE.
DOI: [10.1109/ICKII50300.2020.9318870](https://doi.org/10.1109/ICKII50300.2020.9318870)

- 2020 Jungpil Shin, **Md Abdur Rahim**, "Handedness Detection Based on Drawing Patterns using Machine Learning Techniques," *The Thirteenth International Conference on Advances in Computer-Human Interactions (ACHI2020)*, pp. 68-71, March, 2020.
- 2020 **Md Abdur Rahim**, Md Rashedul Islam, Ui-Pil Chong, Jungpil Shin, "Hand movement activity-based approach for virtual keyboard input," *3rd Eurasian Conference on Educational Innovation 2020 (ECEI 2020)*, February 5-7, 2020, Hanoi, Vietnam. [**Best Conference Paper Award**]
- 2019 **Md Abdur Rahim**, Jungpil Shin, Md Rashedul Islam, "Dynamic Hand Gesture based Sign Word Recognition using Convolutional Neural Network with Feature Fusion," *In 2019 IEEE 2nd International Conference on Knowledge Innovation and Invention (ICKII)*, pp. 221-224, July, 2019. [**Best Conference Paper Award**]
DOI: <https://doi.org/10.1109/ICKII46306.2019.9042600>
- 2019 Md Rashedul Islam, **Md Abdur Rahim**, Md Rajibul Islam, and Jungpil Shin. "Genetic Algorithm Based Optimal Feature Selection Extracted by Time-Frequency Analysis for Enhanced Sleep Disorder Diagnosis Using EEG Signal," *In Proceedings of SAI Intelligent Systems Conference*, pp. 881-894. Springer, Cham, 2019.
DOI: https://doi.org/10.1007/978-3-030-29513-4_65
- 2019 Shunsuke Kobayashi, Ryoma Takahashi, Mitsuki Aihara, **Md Abdur Rahim**, Md Rashedul Islam, Jungpil Shin, Kazuaki Kanai, Yoshikazu Ugawa, "Pathophysiology of Micrographia in Parkinson's Disease," *60th Annual Meeting of the Japanese Society of Neurology*, Pe-051-1, May 22-25, 2019, Osaka, Japan.
- 2019 **Md Abdur Rahim**, Hyung-Jin Mun, Jungpil Shin, "Content-Based Image Retrieval (CBIR) Using Gabor Wavelet, Color Moments and Shape Features," *International Research Conference on Innovation, Technology and Sustainability*, pp. 701-702, January 24-25, 2019, Century Park Hotel, Manila, Philippines.
- 2018 **Md Abdur Rahim**, Jungpil Shin, and Md Rashedul Islam, "Human-Machine Interaction based on Hand Gesture Recognition using Skeleton Information of Kinect Sensor," *In Proceeding of the 3rd International Conference on Applications in Information Technology*, pp. 75-79, ACM, Nov. 2018.
DOI: <https://doi.org/10.1145/3274856.3274872>
- 2018 Md Rashedul Islam, **Md Abdur Rahim**, Hafeza Akter, Raihan Kabir, and Jungpil Shin, "Optimal IMF Selection of EMD for Sleep Disorder Diagnosis using EEG Signals," *In Proceeding of the 3rd International Conference on Applications in Information Technology*, pp. 96-101, ACM, Nov. 2018. [**Best Paper**]

Award]

DOI: <https://doi.org/10.1145/3274856.3274876>

- 2018 Jungpil Shin, **Md Abdur Rahim**, Keun Soo Yun, "Continuous Motion Detection using Histogram of Oriented Gradients," *The 5th International Conference on Small & Medium Business (ICSMB)*, W15-199, Jan. 17-19, 2018, Manila, Philippines.
- 2018 **Md Abdur Rahim**, Jungpil Shin, Keun Soo Yun, "Integrated Recognition of Handwritten and Printed Character using Machine Learning Algorithm," *The 5th International Conference on Small & Medium Business (ICSMB)*, W15-200, Jan. 17-19, 2018, Manila, Philippines.

BOOK CHAPTER (01)

- 2023 MD FARHANUL HAQUE, Abu Saleh Musa Miah, Md. Al-Hasan, Sumaiya Tabssum Mou, **Md Abdur Rahim**, Jungpil Shin, "Multichannel Attention Networks with Ensembled Transfer Learning to Recognize Bangla Handwritten Character", *International Conference on Big Data, IoT and Machine Learning*, 6-8 September, 2023, Bangladesh.

Research Grant: Ongoing

- FY 2023-2024 Person Identification from Natural Handwriting Using Machine and Deep Learning Techniques, Special Research Grant from Pabna University of Science and Technology.
- FY 2022-2023 Sensor-based Non-touch Bangla Character Input System using Machine and Deep Learning techniques, Under the research project of the University Grants Commission of Bangladesh.

Awards & honours

- 2023 Innovative Project Award (Smart Classroom based on IoT), Pabna University of Science and Technology, Bangladesh.
- 2020 Best Conference Paper Award, 3rd Eurasian Conference on Educational Innovation 2020 (ECEI 2020), Ha Long Bay/Hanoi, Vietnam, February 5-7, 2020.
- 2019 Best Conference Paper Award, 2nd IEEE International Conference on Knowledge Innovation and Invention (ICKII), July 13-16, 2019, Seoul, South Korea,
- 2018 Best Paper Award, In Proceeding of the 3rd International Conference on Applications in Information Technology (ICAIT'2018), 2018.
- 2014-2015 Received research fund, supported by University Grants Commission (UGC) of Bangladesh under the projects of Research and Development (RD).

- 2013-2014 Research Fellowship at Ministry of Science and Technology, Bangladesh.
 2009 Second Position in M.Sc. (Thesis) Examination Results
 2008 Second Position in B.Sc. (Honours) Examination Results
 2004-2008 Undergraduate scholarship at University of Rajshahi throughout the four years for excellent undergraduate level based on merit.
 1997-1999 Merit Scholarship of Bangladesh Junior Level Scholarship Examination.

Work Experience

- Dec.2020- Present Associate Professor, Department of Computer Science and Engineering, Pabna University of Science and Technology, Pabna-6600, Bangladesh.
 Nov.2014- Dec. 2020 Assistant Professor, Department of Computer Science and Engineering, Pabna University of Science and Technology, Pabna-6600, Bangladesh.
 Nov.2012- Nov.2014 Lecturer, Department of Computer Science and Engineering, Pabna University of Science and Technology, Pabna-6600, Bangladesh.
 Dec.2011- Nov.2012 Lecturer, Department of Computer Science and Engineering, Uttara University, Uttara, Dhaka, Bangladesh.
 Feb.2011- Dec.2011 Assistant Programmer, Bangladesh Computer Council, Bangladesh.

Others Experience

- Nov.2022- Present Director, ICT Cell, Pabna University of Science and Technology, Rajapur-6600, Pabna.
 Nov.2023- Present Chairman, Department of Computer Science and Engineering, Pabna University of Science and Technology, Rajapur-6600, Pabna.
 Nov.2020- Oct, 2023 Chairman, Department of Computer Science and Engineering, Pabna University of Science and Technology, Rajapur-6600, Pabna.
 Nov.2020- Present Member, Diary and Calendar Printing Committee, Pabna University of Science and Technology, Rajapur-6600, Pabna.
 2014-2017 Assistant Proctor, Pabna University of Science & Technology, Pabna-6600, Bangladesh.
 2016-2017 Member, Campus Network Sub-Project of BdREN, Pabna University of Science & Technology, Pabna-6600, Bangladesh.
 2015-2016 Coordinator, MCSE Evening Program, Department of Computer Science and Engineering, Pabna University of Science & Technology, Pabna-6600, Bangladesh.
 2016-2017 Secretary, Teacher-Officer Club, Pabna University of Science & Technology, Pabna-6600, Bangladesh.
 2016-2017 Executive Member, Teacher Association, Pabna University of Science & Technology, Pabna-6600, Bangladesh.
 2015-2016 Member, Policy formulation committee for the study leave, Lien leave, and other leave, Pabna University of Science and Technology. 2015-2016.
 2015-2016 Joint Secretary, Teacher Association, Pabna University of Science & Technology, Pabna-6600, Bangladesh.

2014-2015	Joint Secretary, Teacher Association, Pabna University of Science & Technology, Pabna-6600, Bangladesh.
2013-2014	Executive Member, Teacher Association, Pabna University of Science & Technology, Pabna-6600, Bangladesh.
2006-2011	Executive Member, Kurigram Zilla Somite, University of Rajshahi, Rajshahi, Bangladesh.

Thesis & Project Supervisions

Thesis Title:

- Person Detection based on pen-tablet handwriting (independent)
- ADHD Detection using Deep learning techniques
- Dynamic Hand Gesture Detection for Robotic Instructions
- Machine Learning-based Classification of Parkinson's Disease using Digitized Graphics Tablet
- DIABETES TYPE-2 PREDICTION USING ENSEMBLE MACHINE LEARNING APPROACH
- Evaluation of handwriting features for differential diagnosis of Parkinson's disease
- Virtual Keyboard-Based Bangla Character Input System Using Leap Motion
- MAMMOGRAPHY IMAGE ANALYSIS-BASED BREAST CANCER DETECTION USING CONVOLUTIONAL NEURAL NETWORK
- Multiple Face Detection & Recognition in Real Time Using Local Binary Patterns (LBP)
- Handwritten and Printed Character Recognition System Using Neural Network
- Segmentation Techniques for Iris Recognition System
- Content-Based Image Retrieval (CBIR) Using Gabor Wavelet, Color Moment & Shape
- Signal De-noising Based On Empirical Mode Decomposition and a Comparison between EMD and Wavelet Processing
- Automatic Gait Recognition for Human ID at a Distance
- Reducing Peak to Average Power Ratio of OFDM by Using Selected Mapping

- Custom object detection and recognition system

Projects:

- CSE Department website design (Dynamic)— Ongoing
- Examination Control and Academic Module (on going)
- Designing a person detection and attendance system for a smart classroom with Internet of Things (IoT) technology (Received Innovative Project Award)— on going
- Online Library Management System
- Human Resource Management System
- Online Ticket Reservation System
- Cloud computing security and password management
- Tennis Sports Management System
- Payroll Management System
- Vehicular Cloud Computing

Reviewer of international journal and conference

- 1 IEEE Access
- 2 Multimedia Tools and Applications, Springer
- 3 International Journal of Computer Applications in Technology, Springer
- 4 International Conference on Small Medium Business (ICSMB)
- 5 MDPI Applied Sciences
- 6 IEEE Transactions on Artificial Intelligence
- 6 so on.

Conducted courses

- Pattern Recognition
- Digital Image Processing
- Compiler Design
- Digital Systems
- Internet and E-Commerce
- Automata Theory and Compiler Design
- Database Management System
- Introduction to Computers
- Programming with C and C++
- Cryptography and Network Security
- Design Pattern and Java Programming
- Microprocessor
- Computer Peripherals and Interfacing
- Numerical Methods

Programming skills

- **Programming Language:** Python, MATLAB, Microsoft C.NET, Visual Basic-6, Assembly Language(8085, 8086), C, C++, Java, Visual C++, Prolog.
- **Database:** MS SQL Server, MS Access, MySQL, Oracle
- **Networking:** DNS Server, FTP Server, Web server, Mail Server and Telnet configuration in Windows 2000/2003 server and Linux/Unix.
- **Scripting Language/Web Technology:** HTML, PHP, ASP.Net, Macromedia Dream Weaver, Adobe Photoshop, Adobe Illustrator
- **Operating System:** MS DOS, All Window, Linux.

English proficiency

- 1 Medium of Instruction was English in Undergraduate Program at Dept. of CSE, University of Rajshahi, Bangladesh.
- 2 Medium of Instruction was English in Graduate Program (M.Sc.) at Dept. of CSE, University of Rajshahi, Bangladesh.
- 3 Medium of Instruction in English in my teaching profession at the Pabna University of Science & Technology. We are strongly instructed to conduct courses, supervision and discussion in English.
- 4 Medium of Instruction is English in PhD at School of Computer Science and Engineering, The University of Aizu, Aizuwakamatsu, Fukushima, Japan.

Personal information

FATHER'S NAME: Md Fazlar Rahman
MOTHER'S NAME: Mst Omeda Begum
PLACE AND DATE OF BIRTH: Bhurungamari, Kurigram, 11 October 1987
NATIONALITY: Bangladeshi (By Birth)
SEX: Male
RELIGION: Islam
MARITAL STATUS: Married
BLOOD GROUP: A+ (Positive)
PERMANENT ADDRESS: Village- Kamat Angaria, Post: Bhurungamari-5670,
Upazilla: Bhurungamari, District- Kurigram.
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Referees

- 1 PROFESSOR KHADEMUL ISLAM MOLLA, PhD
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