



M Shamim Kaiser

Professor & Director

Summary

Research Interest	My research involves Applied Data Science, Computational Neuroscience, Big Data Analytic, Cyber Security, Machine Learning, Cloud Computing, High-Speed Multi-hop Communication and Smart Healthcare
UN SDG	My research supports several United Nations Sustainable Development Goals including - Goal 10: Reduced Inequalities, Goal 3: Good Health and Well-Being, Goal 4: Quality Education, and Goal 11: Sustainable Cities and Communities.
Publication	Published Journal/Conference Article/Book Chapters/Book: 299+
Supervision	Supervised 05 PhD; 15 Masters 20 Bachelor Thesis/Projects
Funded Project	EU Funded Projects: 02; Government Funded Projects: 09
Research Group	Team Lead, All Research Group

Citation Profile

	Google Scholar ¹	Scopus ¹	ISI Web of Science ¹
Citations	7500+	5389	3651+
Index	107+	39+	29+

Education

- 2017–2010: **PhD, Telecommunication FoS**, *Asian Institute of Technology*, Thailand.
Topic
Result : 3.88 out of 4.00 in course work
- 2013–2015 : **Master of Science**, *Applied Physics, Electronics and Communication Engineering (Currently Known as EEE)*, University of Dhaka.
Title
Result : First Class
- 2013–2015 : **Bachelor of Science (Honors)**, *Applied Physics, Electronics and Communication Engineering (Currently Known as EEE)*, University of Dhaka.
Title
Result : First Class
- 2009–2013 : **Higher Secondary School Certificate**, *Notre Dame College*, Dhaka, Bangladesh.
Result : First Division with Star Marks
- 2009–2013 : **Secondary School Certificate**, *Government Muslim High School*, Chittagong, Bangladesh.

Result : First Division with Star Marks

Experience

Teaching & Research

- 20/02/24 to till now **Professor (Grade 2)**, *Institute of Information Technology*, Jahangirnagar University. Savar, Dhaka, Bangladesh
- 12/12/19 to 19/02/24 **Professor (Grade 3)**, *Institute of Information Technology*, Jahangirnagar University. Savar, Dhaka, Bangladesh
- 21/09/15 to 11/12/19 **Associate Professor**, *Institute of Information Technology*, Jahangirnagar University. Savar, Dhaka, Bangladesh
- 17/12/11 to 20/09/15 **Assistant Professor**, *Institute of Information Technology*, Jahangirnagar University. Savar, Dhaka, Bangladesh
- 00/00/00 to 16/12/11 **Assistant Professor**, *Department of Mathematics and Natural Science*, BRAC University. Dhaka, Bangladesh
- 00/00/00 to 00/00/00 **Assistant Professor**, *Dept of Electronics and Telecommunication Engineering*, Eastern University of Bangladesh. Dhaka, Bangladesh
- 00/00/00 to 00/00/00 **Lecturer**, *Training and Instrumentation Division*, University Grants Commission of Bangladesh. Dhaka, Bangladesh
- 00/00/00 to 00/00/00 **Lecturer**, *Department of Electronics and Telecommunication Engineering*, Daffodil International University. Dhaka, Bangladesh

Research

- 15 Sept 2016 to 10 Jan 2018 **Post Doctoral Fellow**, *Big data & Cyber Security Lab, ARITI of Anglia Ruskin University, United Kingdom (UK)*.
Worked on a research project entitled "Crowd analysis for urban event detection".
Served as a co-supervisor for master's and doctoral students, providing mentorship and guidance.
Actively participated in project proposal development and the creation of training materials for the lab
- 5 Aug 2016 to 14 Sept 2016 **Post Doctoral Fellow**, *Department of Computer Science and Technology, University of Cambridge, United Kingdom (UK)*.
Project Title: Smart Transportation System for Cambrian
- 07/08-09/08 **Special Research Student**, *Wireless Network & Signal Processing Laboratory*, Tohoku University, Japan.
Project Title: Relay Selection Algorithm for OFDM-Based Cooperative Networks
- 06/05-08/07 **Research Associate**, *Applied Physics Electronics & Communication Engineering*, University of Dhaka, Bangladesh.
Development of roof-top Grid-connected PV Power System. Project Director: Professor Rezaul Karim Mazumder, Funded by Ministry of Science & Information and Communication Technology
- 02/05-05/05 **Research Fellow**, *Renewable Energy Research Centre*, University of Dhaka, Bangladesh, Project Director: Muhtasham Hussain.
Project Title: Solar and Wind Energy Resources Assessment (SWERA); Funded by UNEP
- 01/04-31/04 **Research Fellow**, *Renewable Energy Research Centre*, University of Dhaka, Bangladesh, Project Director: Prof. Rezaul Karim Majumder.
Project Title: Roof-top Grid-connected Photovoltaic Power System for Homes. Funded by University of Dhaka

Adjunct Faculty Member

- Since 2020 **Adjunct Faculty Member**, *Binary University*, Malaysia.
Appointed to Supervise PhD Research

- 2010–2015 **Adjunct Faculty Member**, *Electrical Electronics and Communication Engineering*, Military Institute of Science and Technology, Dhaka, Bangladesh.
Permission Given to take Specialized Classes (Communication Theories; Signal and Systems; Digital Signal Processing; Electrical And Electronic Measurements And Instrumentation; Heterojunction Devices; Optical Communications) and Research Supervision (M.Sc. Engg Students)
- 2018–2022 **Adjunct Faculty Member**, *Department of ICT*, Bangladesh University of Professionals, Dhaka, Bangladesh.
Specialized Courses (Communication Theories; Signal and Systems; Digital Signal Processing; Artificial Intelligence and Neural Network; Cloud Computing; Cyber Security; Optical Communications) and Research Supervision (BSc and M.Sc. Students) with the permission of Jahangirnagar University in different semesters

PhD External Evaluator

- Since 2024 Amity University, Jaipur, Rajasthan, **India**
- Since 2023 Vellore Institute of Technology (VIT), Chennai, **India**
- 2010–2012 Karachi University, **Pakistan**
- 2018–2019 Anglia Raskin University, **UK**
- 2023 to till Birla Institute of Technology And Science, Pilani (BITS Pi), **India**
now

Certification and Training

- 06/06/2017 **Title:Hadoop Platform and Application Framework**, Coursera. E-learning, University of California, San Diego, USA.
- 06/2015 **Cisco Certified Network Associate**, CCNA Instructor Academy, CCNA Network Academy Instructor Exploration 3 and 4.
- 03/07-04/07 **Advanced Embedded System Design**, Basic Tanning on Embedded System Design, PIC Micro-controller, Bangladesh University of Engineering and Technology.
- 01/2011 **TLC Training**, BRAC University, Duration: 3 days.
This 3-day intensive training program is designed to equip teachers with the essential skills to effectively manage classrooms and engage students. Through interactive sessions, practical exercises, and expert guidance, participants will learn strategies to create a positive and productive learning environment.
- 06/2007 **Certificate Course on PLC & Frequency Inverter Troubleshooting**, UGC of Bangladesh.
- 12/2005 **Basics about wireless communications**, Organized by CICT of North South University..
A 3-day course offered a comprehensive overview of mobile communication technology. Participants delved into the fundamentals of mobile networks, advanced concepts, and emerging trends. Hands-on exercises and practical demonstrations will enhance understanding and skills.

Consultancy

- Ongoing **Project Director**, Program Management Committee, Integrated Examination Information Management System of BPSC.
Role and Responsibilities: The PMC's role includes: Providing strategic direction by setting the overall goals and objectives of the project; Allocating resources; Monitoring progress; and Resolving issues by addressing any challenges or obstacles that may arise during the project implementation.

Administrative Works

Office Responsibilities

- 13 Nov. 2021 to 12 Nov 2024 **Director**, Institute of Information Technology, Jahangirnagar University, Savar, Dhaka, Bangladesh.
Role and Responsibilities: The Director of the Institute of Information Technology (IIT) at Jahangirnagar University is responsible for the overall leadership, management, Strategic Planning and academic direction of the institute.

- Since 2023 **Teacher-in-charge**, *University Library*, Jahangirnagar University.
Role and Responsibilities: The Teacher-in-charge of the University Library at Jahangirnagar University is responsible for the overall leadership (Officer/Staff Management), Library Management, Strategic Planning of the Library. Also, provide Academic/research support by working closely with faculty members/students to support their teaching/research activities
- Since 2023 **Additional Teacher-in-charge**, *University Library*, Jahangirnagar University.
Role and Responsibilities: The Additional Teacher-in-Charge of the University Library at Jahangirnagar University is responsible for: Assisting the Teacher-in-Charge in managing the library's operations and developing strategic plans; Supporting the Teacher-in-Charge in areas such as collection development, reference services, user services, and staff management; Contributing to the development and implementation of the library's strategic goals and objectives.
- Since 2018 **Member**, *Jahangirnagar University Undergraduate Admission Test Result Preparation Committee*.
Role and Responsibilities: Reviewing and Analyzing Test Results; Ensuring Fairness and Transparency; Addressing Queries and Concerns
- [Training Program Coordination](#)
- 18 Jan 24 to till now **Member** of Coordination Committee, Enhancing Digital Government & Economy (EDGE) at Institute of Information Technology of Jahangirnagar University.
- 2022-2024 **Coordinator**, *D-nothi implementation committee*, Jahangirnagar University.
D-Nothi is a digital document management system designed to streamline government processes and reduce paperwork. The implementation of D-Nothi at Jahangirnagar University aims to create a more efficient, transparent, and eco-friendly working environment.
- 2022-2024 **Coordinator**, *E-Governance and Innovation Committee*, Jahangirnagar University.
- [Selection Committee Member](#)
- 04 June 23 to 03 June 25 **Member**, Selection Committee of Associate/Professor Board of IIT, Jahangirnagar University.
- 06 Dec 23 to 06 Dec 25 **Member**, Selection Committee of Deputy Register or Equivalent position, Jahangirnagar University.
- 03 July 22 to 02 July 2024 **Member**, Selection Committee of Department of Mechatronics Engineering Khulna University of Engineering and Technology Khulna, Bangladesh
- 03 July 22 to 02 July 2024 **Member**, Selection Committee, Department of Computer Science and Engineering, Green University of Bangladesh.
- Since 2023 **Senate Member** of Jahangirnagar University
- [Examination Committee](#)
- Since 2011 **Chairman/Tabulator** of Examination Committee of IIT, Jahangirnagar University
- Since 2011 **Member** Departmental Higher Studies Committee/PhD and MPhil Examination Committee of IIT, Jahangirnagar University
- [Committee of Courses](#)
- Since 2011 **Member of syllabus/Curriculum Development Committee**, *IIT, Jahangirnagar University*.
Role and Responsibilities: Curriculum Review and Development; Course Content Development based on student feedback and Industry Liaison projects. Also, Assist in the accreditation process by ensuring that the curriculum meets the rigorous standards set by the accrediting body
- [Student Welfare Advisor](#)
- 14/11/19 to 31/01/2020 **Student Welfare Advisor**, *IIT, Jahangirnagar University*.
Role and Responsibilities: The Student Welfare Advisor at the Institute of Information Technology (IIT), Jahangirnagar University, plays a crucial role in promoting the overall well-being and development of students. Their responsibilities include: Organizing Cultural Activities; Arranging Seminars and Workshops; Facilitating Tours and Picnics; Providing Counseling and Support; Liaising with External Organizations; Managing Student Clubs and Societies.

Management Committee Members

- 28 May 23 to till date **Member**, Internet Management Committee of ICT Cell, Jahangirnagar University.
- 31 Aug 23 to till now **Member**, Implementation of Smart Bangladesh Vision at Jahangirnagar University.

Committee Members at UGC

- 2021-till now **Expert Member**, *Evaluation Committee*, for Proposed/Updated Outcome-Based Education (OBE) Curricula, CSE/ICT/ICE/Cyber Security Programs at Universities.
Role and Responsibilities: Reviewing and Evaluating Curricula; Assessing Learning Outcomes; Analyzing Curriculum Structure; and Providing Feedback and Recommendations by Offering constructive feedback and recommendations to the curriculum development committee to improve the quality and effectiveness of the curricula.
- 2021-till now **Expert Member**, *Evaluation Committee*, for Laboratory Facilities in CSE/ICT/ICE/ Programs at Universities.
Role and Responsibilities: Reviewing and Evaluating Curricula; Assessing lab facilities and Providing Feedback and Recommendations
- 2020-till now **Expert Member**, *Evaluation Committee*, UGC Projects.
Role and Responsibilities: Reviewing and Evaluating Project Proposal and Provide Feedback and Recommendations
- 2021 **Secretary**, *Technical Program Committee*, The International Conference on Fourth Industrial Revolution (IC4IR), held in Dhaka, Bangladesh, on December 10-11, 2021.
The conference featured a diverse range of presentations, discussions, and networking opportunities focused on the latest advancements in technology and their applications. **100+ Presentations:** Researchers and experts from around the world shared their insights on various topics related to the Fourth Industrial Revolution, including artificial intelligence, IoT, data analytics, and cloud computing. **Co-located Events:** The conference included several co-located events, such as workshops, exhibitions, and networking sessions, providing attendees with opportunities to connect with like-minded individuals and explore new technologies. **Nobel Laureates and Keynote Speakers:** The conference featured three Nobel laureates and seven keynote speakers who delivered insightful presentations on their areas of expertise.

Senate/Teachers' Association

Decision-making body

- Since 2023 **Senate Member (Elected by Teachers)**, *Jahangirnagar University Senate*, Jahangirnagar University.
Role and Responsibilities: Representatives from Policy Formulation, Academic Governance, Financial Management, Strategic Planning, and Promoting Academic Excellence etc. within the university community, including faculty, students, staff, and alumni.

Teachers' Association

- 2023 **Secretary** of Jahangirnagar University Teachers' Association
- 2022 **Executive Committee Member** of Jahangirnagar University Teachers' Association

Publications

Text Books

- May 2017 M. Lutfar Rahman, M. Shamim Kaiser, M. Arifur Rahman, and Md. Alamgir Hossain COMPUTER FUNDAMENTALS and ICT. , DIU Press
- Feb 2007 M. Shamim Kaiser, M. Arifur Rahman, Abu M Jafor Alam, A. K. M. Fazlul Haque FUNDAMENTALS OF COMMUNICATION. Systech Publication Ltd

Journal Articles

- 2024 Most Fatematuz Zohora, Fahiba Farhin, and M Shamim Kaiser. An enhanced round robin using dynamic time quantum for real-time asymmetric burst length processes in cloud computing environment. *Plos one*, volume 19, page e0304517. Public Library of Science San Francisco, CA USA, 2024.
- 2024 Asu Kumar Singh, Anupam Kumar, Mufti Mahmud, M Shamim Kaiser, and Akshat Kishore. Covid-19 infection detection from chest x-ray images using hybrid social group optimization and support vector classifier. *Cognitive Computation*, volume 16, pages 1765–1777. Springer, 2024.
- 2024 Manoj Kumar Sharma, M. Shamim Kaiser, and Kanad Ray. Deep convolutional neural network framework with multi-modal fusion for alzheimer's detection. *International Journal of Reconfigurable and Embedded Systems (IJRES)*, volume 13, pages 179–191. Institute of Advanced Engineering and Science, 3 2024.
- 2024 Sirajam Munira, Niloy Paul, Md Ashrafal Alam, Md Mahmudur Rahman, and M. Shamim Kaiser. Turning trash into treasure: Developing an intelligent bin for plastic bottle recycling. *Journal of Social Computing*, volume 5. Tsinghua University Press, 3 2024.
- 2024 Md Moniruzzaman Hemal, Atiqur Rahman, Nurjahan, Farhana Islam, Samsuddin Ahmed, M. Shamim Kaiser, and Muhammad Raisuddin Ahmed. An integrated smart pond water quality monitoring and fish farming recommendation aquabot system. *Sensors 2024, Vol. 24, Page 3682*, volume 24, page 3682. Multidisciplinary Digital Publishing Institute, 6 2024.
- 2024 Yeaminul Haque, Rahat Shahriar Zawad, Chowdhury Saleh Ahmed Rony, Hasan Al Banna, Tapotosh Ghosh, M. Shamim Kaiser, and Mufti Mahmud. State-of-the-art of stress prediction from heart rate variability using artificial intelligence. *Cognitive Computation*, volume 16, pages 455–481. Springer, 3 2024.
- 2024 Saiful Azad, Mufti Mahmud, Kamal Z. Zamli, M. Shamim Kaiser, Sobhana Jahan, and Md Abdur Razzaque. ibust: An intelligent behavioural trust model for securing industrial cyber-physical systems. *Expert Systems with Applications*, volume 238, page 121676. Pergamon, 3 2024.
- 2024 Md Easin Arafat, Md Wakil Ahmad, S. M. Shovan, Towhid Ul Haq, Nazrul Islam, Mufti Mahmud, and M. Shamim Kaiser. Accurate prediction of lysine methylation sites using evolutionary and structural-based information. *Cognitive Computation*, volume 16, pages 1300–1320. Springer, 5 2024.
- 2024 Shamim Ahmed, M Shamim Kaiser, Mohammad Shahadat Hossain, and Karl Andersson. A comparative analysis of lime and shap interpreters with explainable ml-based diabetes predictions. *IEEE Access*. IEEE, 2024.
- 2024 Samia Ahmed, Jannatul Ferdous Esha, Md Sazzadur Rahman, M. Shamim Kaiser, A. S.M.Sanwar Hosen, Deepak Ghimire, and Mi Jin Park. Exploring deep learning and machine learning approaches for brain hemorrhage detection. *IEEE Access*, volume 12, pages 45060–45093. Institute of Electrical and Electronics Engineers Inc., 2024.
- 2023 Md Sazzadur Rahman, Tapotosh Ghosh, Nahid Ferdous Aurna, M Shamim Kaiser, Mehrin Anannya, and ASM Sanwar Hosen. Machine learning and internet of things in industry 4.0: A review. *Measurement: Sensors*, volume 28, page 100822. Elsevier, 2023.
- 2023 S Punitha, Thompson Stephan, Ramani Kannan, Mufti Mahmud, M Shamim Kaiser, and Samir Brahim Belhaouari. Detecting covid-19 from lung computed tomography images: A swarm optimized artificial neural network approach. *IEEE Access*, volume 11, pages 12378–12393. IEEE, 2023.
- 2023 Ashis Paul, Arpan Basu, Mufti Mahmud, M Shamim Kaiser, and Ram Sarkar. Inverted bell-curve-based ensemble of deep learning models for detection of covid-19 from chest x-rays. *Neural Computing and Applications*, volume 35, pages 16113–16127. Springer London London, 2023.

- 2023 Sobhana Jahan, Farhana Nowsheen, Mahathir Mahmud Antik, Md Sazzadur Rahman, M Shamim Kaiser, ASM Sanwar Hosen, and In-Ho Ra. Ai-based epileptic seizure detection and prediction in internet of healthcare things: a systematic review. *IEEE Access*, volume 11, pages 30690–30725. IEEE, 2023.
- 2023 Sobhana Jahan, Kazi Abu Taher, M Shamim Kaiser, Mufti Mahmud, Md Sazzadur Rahman, ASM Sanwar Hosen, and In-Ho Ra. Explainable ai-based alzheimer's prediction and management using multimodal data. *Plos one*, volume 18, page e0294253. Public Library of Science San Francisco, CA USA, 2023.
- 2023 Tapotosh Ghosh, Md Hasan Al Banna, Md Jaber Al Nahian, Mohammed Nasir Uddin, M Shamim Kaiser, and Mufti Mahmud. An attention-based hybrid architecture with explainability for depressive social media text detection in bangla. *Expert Systems with Applications*, volume 213, page 119007. Pergamon, 2023.
- 2023 Md Hasan Al Banna, Tapotosh Ghosh, Md Jaber Al Nahian, M Shamim Kaiser, Mufti Mahmud, Kazi Abu Taher, Mohammad Shahadat Hossain, and Karl Andersson. A hybrid deep learning model to predict the impact of covid-19 on mental health from social media big data. *IEEE Access*, volume 11, pages 77009–77022. IEEE, 2023.
- 2022 Md Julkar Nayeem Mahi, Sudipto Chaki, Shamim Ahmed, Milon Biswas, M Shamim Kaiser, Mohammad Shahidul Islam, Mehdi Sookhak, Alistair Barros, and Md Whaiduzzaman. A review on vanet research: Perspective of recent emerging technologies. *IEEE Access*, volume 10, pages 65760–65783. IEEE, 2022.
- 2021 Shakila Zaman, Khaled Alhazmi, Mohammed A Aseeri, Muhammad Raisuddin Ahmed, Risala Tasin Khan, M Shamim Kaiser, and Mufti Mahmud. Security threats and artificial intelligence based countermeasures for internet of things networks: a comprehensive survey. *Ieee Access*, volume 9, pages 94668–94690. IEEE, 2021.
- 2021 Md Shahriare Satu, Koushik Chandra Howlader, Mufti Mahmud, M Shamim Kaiser, Sheikh Mohammad Shariful Islam, Julian MW Quinn, Salem A Alyami, and Mohammad Ali Moni. Short-term prediction of covid-19 cases using machine learning models. *Applied Sciences*, volume 11, page 4266. MDPI, 2021.
- 2021 M Jaber Al Nahian, Mehedi Hasan Raju, Zarin Tasnim, Mufti Mahmud, Md Atiqur Rahman Ahad, and M Shamim Kaiser. Contactless fall detection for the elderly. *Contactless Human Activity Analysis*, pages 203–235. Springer International Publishing, 2021.
- 2021 Mufti Mahmud, M Shamim Kaiser, T Martin McGinnity, and Amir Hussain. Deep learning in mining biological data. *Cognitive computation*, volume 13, pages 1–33. Springer US New York, 2021.
- 2021 Mufti Mahmud and M Shamim Kaiser. Machine learning in fighting pandemics: a covid-19 case study. *COVID-19: prediction, decision-making, and its impacts*, pages 77–81. Springer Singapore, 2021.
- 2021 M Shamim Kaiser, Mufti Mahmud, Manan Binth Taj Noor, Nusrat Zerin Zenia, Shamim Al Mamun, KM Abir Mahmud, Saiful Azad, VN Manjunath Aradhya, Punitha Stephan, Thompson Stephan, et al. iworksafe: towards healthy workplaces during covid-19 with an intelligent phealth app for industrial settings. *Ieee Access*, volume 9, pages 13814–13828. IEEE, 2021.
- 2021 M Shamim Kaiser, Shamim Al Mamun, Mufti Mahmud, and Marzia Hoque Tania. Healthcare robots to combat covid-19. *COVID-19: Prediction, decision-making, and its impacts*, pages 83–97. Springer Singapore, 2021.
- 2021 Nahida Islam, Fahiba Farhin, Ishrat Sultana, M Shamim Kaiser, Md Sazzadur Rahman, Mufti Mahmud, ASM SanwarHosen, and Gi Hwan Cho. Towards machine learning based intrusion detection in iot networks. *Computers, Materials & Continua*, volume 69, 2021.

- 2021 Tapotosh Ghosh, Md Hasan Al Banna, Md Sazzadur Rahman, M Shamim Kaiser, Mufti Mahmud, ASM Sanwar Hosen, and Gi Hwan Cho. Artificial intelligence and internet of things in screening and management of autism spectrum disorder. *Sustainable Cities and Society*, volume 74, page 103189. Elsevier, 2021.
- 2021 Marcos Fabietti, Mufti Mahmud, Ahmad Lotfi, M Shamim Kaiser, Alberto Aversa, David J Guggenmos, Randolph J Nudo, Michela Chiappalone, and Jianhui Chen. Santia: a matlab-based open-source toolbox for artifact detection and removal from extracellular neuronal signals. *Brain Informatics*, volume 8, pages 1–19. Springer Berlin Heidelberg, 2021.
- 2021 Milon Biswas, Marzia Hoque Tania, M Shamim Kaiser, Russell Kabir, Mufti Mahmud, and Atika Ahmad Kemal. Accu3rate: A mobile health application rating scale based on user reviews. *PloS one*, volume 16, page e0258050. Public Library of Science San Francisco, CA USA, 2021.
- 2021 VN Manjunath Aradhya, Mufti Mahmud, DS Guru, Basant Agarwal, and M Shamim Kaiser. One-shot cluster-based approach for the detection of covid-19 from chest x-ray images. *Cognitive Computation*, volume 13, pages 873–881. Springer US New York, 2021.
- 2021 Md Jaber Al Nahian, Tapotosh Ghosh, Md Hasan Al Banna, Mohammed A Aseeri, Mohammed Nasir Uddin, Muhammad Raisuddin Ahmed, Mufti Mahmud, and M Shamim Kaiser. Towards an accelerometer-based elderly fall detection system using cross-disciplinary time series features. *IEEE Access*, volume 9, pages 39413–39431. IEEE, 2021.
- 2021 Md Hasan Al Banna, Tapotosh Ghosh, Md Jaber Al Nahian, Kazi Abu Taher, M Shamim Kaiser, Mufti Mahmud, Mohammad Shahadat Hossain, and Karl Andersson. Attention-based bi-directional long-short term memory network for earthquake prediction. *IEEE Access*, volume 9, pages 56589–56603. IEEE, 2021.
- 2020 Ryan LS Sharpe, Mufti Mahmud, M Shamim Kaiser, and Jianhui Chen. Gamma entrainment frequency affects mood, memory and cognition: an exploratory pilot study. *Brain informatics*, volume 7, page 17. Springer Berlin Heidelberg Berlin/Heidelberg, 2020.
- 2020 Rifat Sadik, Md Latifur Reza, Abdullah Al Noman, Shamim Al Mamun, M Shamim Kaiser, and Muhammad Arifur Rahman. Covid-19 pandemic: a comparative prediction using machine learning. *International Journal of Automation, Artificial Intelligence and Machine Learning*, volume 1, pages 1–16, 2020.
- 2020 Manan Binth Taj Noor, Nusrat Zerin Zenia, M Shamim Kaiser, Shamim Al Mamun, and Mufti Mahmud. Application of deep learning in detecting neurological disorders from magnetic resonance images: a survey on the detection of alzheimer’s disease, parkinson’s disease and schizophrenia. *Brain informatics*, volume 7, pages 1–21. Springer Berlin Heidelberg, 2020.
- 2020 Nilanjan Dey, Venkatesan Rajinikanth, Simon James Fong, M Shamim Kaiser, and Mufti Mahmud. Social group optimization–assisted kapur’s entropy and morphological segmentation for automated detection of covid-19 infection from computed tomography images. *Cognitive Computation*, volume 12, pages 1011–1023. Springer US New York, 2020.
- 2020 Md Hasan Al Banna, Kazi Abu Taher, M Shamim Kaiser, Mufti Mahmud, Md Sazzadur Rahman, ASM Sanwar Hosen, and Gi Hwan Cho. Application of artificial intelligence in predicting earthquakes: state-of-the-art and future challenges. *IEEE Access*, volume 8, pages 192880–192923. IEEE, 2020.
- 2020 Farzana Islam Adiba, Tahmina Islam, M Shamim Kaiser, Mufti Mahmud, and Muhammad Arifur Rahman. Effect of corpora on classification of fake news using naive bayes classifier. *International Journal of Automation, Artificial Intelligence and Machine Learning*, volume 1, pages 80–92, 2020.
- 2019 **Pratik Dutta**, Sriparna Saha, Saraansh Chopra, and Varnika Miglani. Ensembling of gene clusters utilizing deep learning and protein-protein interaction information. *IEEE/ACM transactions on computational biology and bioinformatics*. IEEE, 2019, (**Impact Factor:2.896**).

- 2018 Antesar M Shabut, M Shamim Kaiser, Keshav P Dahal, and Wenbing Chen. A multidimensional trust evaluation model for manets. *Journal of Network and Computer Applications*, volume 123, pages 32–41. Academic Press, 2018.
- 2018 Mufti Mahmud, Mohammed Shamim Kaiser, Amir Hussain, and Stefano Vassanelli. Applications of deep learning and reinforcement learning to biological data. *IEEE transactions on neural networks and learning systems*, volume 29, pages 2063–2079. IEEE, 2018.
- 2018 Mufti Mahmud, M Shamim Kaiser, M Mostafizur Rahman, M Arifur Rahman, Antesar Shabut, Shamim Al-Mamun, and Amir Hussain. A brain-inspired trust management model to assure security in a cloud based iot framework for neuroscience applications. *Cognitive Computation*, volume 10, pages 864–873. Springer US, 2018.
- 2018 Md Asif-Ur-Rahman, Fariha Afsana, Mufti Mahmud, M Shamim Kaiser, Muhammad R Ahmed, Omprakash Kaiwartya, and Anne James-Taylor. Toward a heterogeneous mist, fog, and cloud-based framework for the internet of healthcare things. *IEEE Internet of Things Journal*, volume 6, pages 4049–4062. IEEE, 2018.
- 2018 Fariha Afsana, Md Asif-Ur-Rahman, Muhammad R Ahmed, Mufti Mahmud, and M Shamim Kaiser. An energy conserving routing scheme for wireless body sensor nanonetwork communication. *IEEE Access*, volume 6, pages 9186–9200. IEEE, 2018.
- 2017 Mohammed Shamim Kaiser, Khin T Lwin, Mufti Mahmud, Donya Hajializadeh, Tawee Chaipimonplin, Ahmed Sarhan, and Mohammed Alamgir Hossain. Advances in crowd analysis for urban applications through urban event detection. *IEEE Transactions on Intelligent Transportation Systems*, volume 19, pages 3092–3112. IEEE, 2017.
- 2016 Nusrat Zerin Zenia, Mohammed Aseeri, Muhammad R Ahmed, Zamshed I Chowdhury, and M Shamim Kaiser. Energy-efficiency and reliability in mac and routing protocols for underwater wireless sensor network: A survey. *Journal of Network and Computer Applications*, volume 71, pages 72–85. Academic Press, 2016.
- 2016 Shamim Al Mamun, Zamshed Iqbal Chowdhury, M Shamim Kaiser, and Mohammad Shahidul Islam. Techno-financial analysis and design of on-board intelligent-assisting system for a hybrid solar-deg-powered boat. *International Journal of Energy and Environmental Engineering*, volume 7, pages 361–376. Springer Berlin Heidelberg, 2016.
- 2016 M Shamim Kaiser, Zamshed Iqbal Chowdhury, Shamim Al Mamun, Amir Hussain, and Mufti Mahmud. A neuro-fuzzy control system based on feature extraction of surface electromyogram signal for solar-powered wheelchair. *Cognitive Computation*, volume 8, pages 946–954. Springer US, 2016.
- 2006 M Shamim Kaiser, SK Khadem, HR Ghosh, S Kaiser, and SK Aditya. Energy efficient system for st martin's island of bangladesh. *Proceedings of the Journal of Engineering and Applied Sciences*, volume 1, pages 93–97, 2006.

In Conference Proceedings

- 2023 Tanjim Mahmud, Koushick Barua, Anik Barua, Sudhakar Das, Nanziba Basnin, Mohammad Shahadat Hossain, Karl Andersson, M Shamim Kaiser, and Nahed Sharmen. Exploring deep transfer learning ensemble for improved diagnosis and classification of alzheimer's disease. In *International Conference on Brain Informatics*, pages 109–120. Springer Nature Switzerland Cham, 2023.
- 2022 Mufti Mahmud, M Shamim Kaiser, Muhammad Arifur Rahman, Tanu Wadhera, David J Brown, Nicholas Shopland, Andrew Burton, Thomas Hughes-Roberts, Shamim Al Mamun, Cosimo Ieracitano, et al. Towards explainable and privacy-preserving artificial intelligence for personalisation in autism spectrum disorder. In *International Conference on Human-Computer Interaction*, pages 356–370. Springer International Publishing Cham, 2022.

- 2022 Krishna Kumar, Gaurav Saini, Narendra Kumar, M Shamim Kaiser, Ramani Kannan, and Rachna Shah. Prediction of energy generation target of hydropower plants using artificial neural networks. In *Sustainable Developments by Artificial Intelligence and Machine Learning for Renewable Energies*, pages 309–320. Elsevier, 2022.
- 2021 Sharaban Tahura, SM Hasnat Samiul, M Shamim Kaiser, and Mufti Mahmud. Anomaly detection in electroencephalography signal using deep learning model. In *Proceedings of International Conference on Trends in Computational and Cognitive Engineering: Proceedings of TCCE 2020*, pages 205–217. Springer Singapore, 2021.
- 2021 Afra Nawar, Nazia Tabassum Toma, Shamim Al Mamun, M Shamim Kaiser, Mufti Mahmud, and Muhammad Arifur Rahman. Cross-content recommendation between movie and book using machine learning. In *2021 IEEE 15th international conference on application of information and communication technologies (AICT)*, pages 1–6. IEEE, 2021.
- 2021 Yunus Miah, Chowdhury Nazia Enam Prima, Sharmeen Jahan Seema, Mufti Mahmud, and M Shamim Kaiser. Performance comparison of machine learning techniques in identifying dementia from open access clinical datasets. In *Advances on Smart and Soft Computing: Proceedings of ICACIn 2020*, pages 79–89. Springer Singapore, 2021.
- 2021 Md Kawsher Mahbub, Milon Biswas, Abdul Mozid Miah, Ahmed Shahabaz, and M Shamim Kaiser. Covid-19 detection using chest x-ray images with a regnet structured deep learning model. In *Applied Intelligence and Informatics: First International Conference, AII 2021, Nottingham, UK, July 30–31, 2021, Proceedings 1*, pages 358–370. Springer International Publishing, 2021.
- 2021 Tapotosh Ghosh, Md Hasan Al Banna, Tazkia Mim Angona, Md Jaber Al Nahian, Mohammed Nasir Uddin, M Shamim Kaiser, and Mufti Mahmud. An attention-based mood controlling framework for social media users. In *Brain Informatics: 14th International Conference, BI 2021, Virtual Event, September 17–19, 2021, Proceedings 14*, pages 245–256. Springer International Publishing, 2021.
- 2021 Fahiba Farhin, M Shamim Kaiser, and Mufti Mahmud. Secured smart healthcare system: blockchain and bayesian inference based approach. In *Proceedings of International Conference on Trends in Computational and Cognitive Engineering: Proceedings of TCCE 2020*, pages 455–465. Springer Singapore, 2021.
- 2021 Naznin Hossain Esha, Mst Rubayat Tasmim, Silvia Huq, Mufti Mahmud, and M Shamim Kaiser. Trust ioh: a trust management model for internet of healthcare things. In *Proceedings of International Conference on Data Science and Applications: ICDSA 2019*, pages 47–57. Springer Singapore, 2021.
- 2021 Milon Biswas, Ashiqur Rahman, M Shamim Kaiser, Shamim Al Mamun, K Shayekh Ebne Mizan, Mohammad Shahidul Islam, and Mufti Mahmud. Indoor navigation support system for patients with neurodegenerative diseases. In *Brain Informatics: 14th International Conference, BI 2021, Virtual Event, September 17–19, 2021, Proceedings 14*, pages 411–422. Springer International Publishing, 2021.
- 2021 Milon Biswas, M Shamim Kaiser, Mufti Mahmud, Shamim Al Mamun, Md Shahadat Hossain, and Muhammad Arifur Rahman. An xai based autism detection: the context behind the detection. In *International Conference on Brain Informatics*, pages 448–459. Springer International Publishing Cham, 2021.
- 2021 Md Murshedul Arifeen, Abdullah Al Mamun, Tanvir Ahmed, M Shamim Kaiser, and Mufti Mahmud. A blockchain-based scheme for sybil attack detection in underwater wireless sensor networks. In *Proceedings of International Conference on Trends in Computational and Cognitive Engineering: Proceedings of TCCE 2020*, pages 467–476. Springer Singapore, 2021.
- 2021 Shamim Al Mamun, M Shamim Kaiser, and Mufti Mahmud. An artificial intelligence based approach towards inclusive healthcare provisioning in society 5.0: a perspective on brain disorder. In *International Conference on Brain Informatics*, pages 157–169. Springer International Publishing Cham, 2021.

- 2021 Abdullah Al Mamun, Md Umor Faruk Jahangir, Sami Azam, M Shamim Kaiser, and Asif Karim. A combined framework of interplanetary file system and blockchain to securely manage electronic medical records. In *Proceedings of International Conference on Trends in Computational and Cognitive Engineering: Proceedings of TCCE 2020*, pages 501–511. Springer Singapore, 2021.
- 2021 Sm Al-Amin, Shipra Rani Sharkar, M Shamim Kaiser, and Milon Biswas. Towards a blockchain-based supply chain management for e-agro business system. In *Proceedings of International Conference on Trends in Computational and Cognitive Engineering: Proceedings of TCCE 2020*, pages 329–339. Springer Singapore, 2021.
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- 2020 Most Fatematuz Zohora, Marzia Hoque Tania, M Shamim Kaiser, and Mufti Mahmud. Forecasting the risk of type ii diabetes using reinforcement learning. In *2020 joint 9th international conference on informatics, electronics & vision (ICIEV) and 2020 4th international conference on imaging, vision & pattern recognition (icIVPR)*, pages 1–6. IEEE, 2020.
- 2020 Md Shahriar Satu, Shelia Rahman, Md Imran Khan, Mohammad Zoynul Abedin, M Shamim Kaiser, and Mufti Mahmud. Towards improved detection of cognitive performance using bidirectional multilayer long-short term memory neural network. In *International Conference on Brain Informatics*, pages 297–306. Springer International Publishing Cham, 2020.
- 2020 Juan Ruiz, Mufti Mahmud, Md Modasshir, M Shamim Kaiser, and for the Alzheimer's Disease Neuroimaging Initiative. 3d densenet ensemble in 4-way classification of alzheimer's disease. In *Brain Informatics: 13th International Conference, BI 2020, Padua, Italy, September 19, 2020, Proceedings 13*, pages 85–96. Springer International Publishing, 2020.
- 2020 Md Nahiduzzaman, Moumita Tasnim, Nishat Tasnim Newaz, M Shamim Kaiser, and Mufti Mahmud. Machine learning based early fall detection for elderly people with neurological disorder using multimodal data fusion. In *International Conference on Brain Informatics*, pages 204–214. Springer International Publishing Cham, 2020.
- 2020 M Shamim Kaiser, Nusrat Zenia, Fariha Tabassum, Shamim Al Mamun, M Arifur Rahman, Md Shahidul Islam, and Mufti Mahmud. 6g access network for intelligent internet of healthcare things: opportunity, challenges, and research directions. In *Proceedings of International Conference on Trends in Computational and Cognitive Engineering: Proceedings of TCCE 2020*, pages 317–328. Springer Singapore Singapore, 2020.
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- 2020 Sabrina Jesmin, M Shamim Kaiser, and Mufti Mahmud. Artificial and internet of healthcare things based alzheimer care during covid 19. In *International conference on brain informatics*, pages 263–274. Springer International Publishing Cham, 2020.
- 2020 Fahiba Farhin, Ishrat Sultana, Nahida Islam, M Shamim Kaiser, Md Sazzadur Rahman, and Mufti Mahmud. Attack detection in internet of things using software defined network and fuzzy neural network. In *2020 joint 9th international conference on informatics, electronics & vision (ICIEV) and 2020 4th international conference on imaging, vision & pattern recognition (icIVPR)*, pages 1–6. IEEE, 2020.
- 2020 Fahiba Farhin, M Shamim Kaiser, and Mufti Mahmud. Towards secured service provisioning for the internet of healthcare things. In *2020 IEEE 14th international conference on application of information and communication technologies (AICT)*, pages 1–6. IEEE, 2020.

- 2020 Minhaz Uddin Emon, Maria Sultana Keya, Tamara Islam Meghla, Md Mahfujur Rahman, M Shamim Al Mamun, and M Shamim Kaiser. Performance analysis of machine learning approaches in stroke prediction. In *2020 4th international conference on electronics, communication and aerospace technology (ICECA)*, pages 1464–1469. IEEE, 2020.
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- 2019 Md Murshedul Arifeen, Md Mustafizur Rahman, Kazi Abu Taher, Md Maynul Islam, M Shamim Kaiser, et al. Anfis based trust management model to enhance location privacy in underwater wireless sensor networks. In *2019 International Conference on Electrical, Computer and Communication Engineering (ECCE)*, pages 1–6. IEEE, 2019.
- 2019 Hafsa Moontari Ali, M Shamim Kaiser, and Mufti Mahmud. Application of convolutional neural network in segmenting brain regions from mri data. In *International conference on brain informatics*, pages 136–146. Springer International Publishing Cham, 2019.
- 2019 Md Hasan Al Banna, Md Ali Haider, Md Jaber Al Nahian, Md Maynul Islam, Kazi Abu Taher, and M Shamim Kaiser. Camera model identification using deep cnn and transfer learning approach. In *2019 international conference on robotics, electrical and signal processing techniques (ICREST)*, pages 626–630. IEEE, 2019.
- 2018 Anjum Ismail Sumi, Most Fatematuz Zohora, Maliha Mahjabeen, Tasnova Jahan Faria, Mufti Mahmud, and M Shamim Kaiser. f assert: a fuzzy assistive system for children with autism using internet of things. In *Brain Informatics: International Conference, BI 2018, Arlington, TX, USA, December 7–9, 2018, Proceedings 11*, pages 403–412. Springer International Publishing, 2018.
- 2018 Abdur Rahman, Shanto Roy, M Shamim Kaiser, and Md Shahidul Islam. A lightweight multi-tier s-mqtt framework to secure communication between low-end iot nodes. In *2018 5th International Conference on Networking, Systems and Security (NSysS)*, pages 1–6. IEEE, 2018.

- 2018 Tajim Md Niamat Ullah Akhund, Md Julkar Nayeem Mahi, ANM Hasnat Tanvir, Mufti Mahmud, and M Shamim Kaiser. Adeptness: Alzheimer's disease patient management system using pervasive sensors-early prototype and preliminary results. In *Brain Informatics: International Conference, BI 2018, Arlington, TX, USA, December 7–9, 2018, Proceedings 11*, pages 413–422. Springer International Publishing, 2018.
- 2018 Md Eftekhair Alam, M Shamim Kaiser, Mohammad Shahadat Hossain, and Karl Andersson. An iot-belief rule base smart system to assess autism. In *2018 4th International Conference on Electrical Engineering and Information & Communication Technology (ICEEICT)*, pages 672–676. IEEE, 2018.
- 2016 Syed Nazmus Sakib, Tanjea Ane, Nafisa Matin, and M Shamim Kaiser. An intelligent flood monitoring system for bangladesh using wireless sensor network. In *2016 5th international conference on informatics, electronics and vision (ICIEV)*, pages 979–984. IEEE, 2016.
- 2016 Shanto Roy, Abdur Rahman, Masuk Helal, M Shamim Kaiser, and Zamshed Iqbal Chowdhury. Low cost rf based online patient monitoring using web and mobile applications. In *2016 5th International Conference on Informatics, Electronics and Vision (ICIEV)*, pages 869–874. IEEE, 2016.
- 2016 Saoreen Rahman, Tanusree Sharma, SM Reza, MM Rahman, MS Kaiser, et al. Pso-nf based vertical handoff decision for ubiquitous heterogeneous wireless network (uhwn). In *2016 International Workshop on Computational Intelligence (IWCi)*, pages 153–158. IEEE, 2016.
- 2016 Saoreen Rahman, Shamim Al Mamun, Mahtab Uddin Ahmed, and M Shamim Kaiser. Phy/mac layer attack detection system using neuro-fuzzy algorithm for iot network. In *2016 International conference on electrical, electronics, and optimization techniques (ICEEOT)*, pages 2531–2536. IEEE, 2016.
- 2016 Mithun Chandra Paul, Suman Sarkar, Md Mahfujur Rahman, Sayed Mohsin Reza, and M Shamim Kaiser. Low cost and portable patient monitoring system for e-health services in bangladesh. In *2016 international conference on computer communication and informatics (ICCCI)*, pages 1–4. IEEE, 2016.
- 2016 Farhana Nizam, Shudarshon Chaki, Shamim Al Mamun, M Shamim Kaiser, et al. Attack detection and prevention in the cyber physical system. In *2016 international conference on computer communication and informatics (ICCCI)*, pages 1–6. IEEE, 2016.
- 2015 Sayed Mohsin Reza, Md Mahfujur Rahman, Md Hasnat Parvez, M Shamim Kaiser, and Shamim Al Mamun. Innovative approach in web application effort & cost estimation using functional measurement type. In *2015 International Conference on Electrical Engineering and Information Communication Technology (ICEEICT)*, pages 1–7. IEEE, 2015.
- 2015 Md Torikur Rahman, Md Julkar Nayeem Mahi, Milon Biswas, M Shamim Kaiser, and Shamim Al Mamun. Performance evaluation of a portable pabx system through developing new bandwidth optimization technique. In *2015 International Conference on Electrical Engineering and Information Communication Technology (ICEEICT)*, pages 1–5. IEEE, 2015.
- 2015 Sumon Biswas, M Shamim Kaiser, and SA Mamun. Applying ant colony optimization in software testing to generate prioritized optimal path and test data. In *2015 International Conference on Electrical Engineering and Information Communication Technology (ICEEICT)*, pages 1–6. IEEE, 2015.
- 2015 Muhammad R Ahmed, Mohammed Aseeri, M Shamim Kaiser, Nusrat Z Zenia, and Zamshed I Chowdhury. A novel algorithm for malicious attack detection in uwsn. In *2015 International Conference on Electrical Engineering and Information Communication Technology (ICEEICT)*, pages 1–6. IEEE, 2015.

- 2015 Fariha Afsana, SA Mamun, MS Kaiser, and MR Ahmed. Outage capacity analysis of cluster-based forwarding scheme for body area network using nano-electromagnetic communication. In *2015 2nd international conference on electrical information and communication technologies (EICT)*, pages 383–388. IEEE, 2015.
- 2014 Sabira Khanam, Maliha Mahbub, Anuradha Mandal, M Shamim Kaiser, and Shamim Al Mamun. Improvement of rfid tag detection using smart antenna for tag based school monitoring system. In *2014 International Conference on Electrical Engineering and Information & Communication Technology*, pages 1–6. IEEE, 2014.
- 2014 Sumon Biswas, Tanjina Akhter, MS Kaiser, SA Mamun, et al. Cloud based healthcare application architecture and electronic medical record mining: an integrated approach to improve healthcare system. In *2014 17th international conference on computer and information technology (ICCIT)*, pages 286–291. IEEE, 2014.
- 2012 Md Asif Iqbal, Adiba Zahin, Zainu Sadia Islam, and M Shamim Kaiser. Neuro-fuzzy based adaptive traffic flow control system. In *2012 International Conference on Communications, Devices and Intelligent Systems (CODIS)*, pages 349–352. IEEE, 2012.
- 2010 M Shamim Kaiser, M Hasanain Chaudary, Raza Ali Shah, and Kazi M Ahmed. Neuro-fuzzy (nf) based relay selection and resource allocation for cooperative networks. In *ECTI-CON2010: The 2010 ECTI International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology*, pages 244–248. IEEE, 2010.
- 2010 M Shamim Kaiser, Kazi M Ahmed, and Raza Ali Shah. Power allocation in ofdm-based cognitive relay networks. In *2010 IEEE International Conference on Wireless Communications, Networking and Information Security*, pages 202–206. IEEE, 2010.
- 2009 M Shamim Kaiser, F Adachi, Imran Khan, and Kazi M Ahmed. Fuzzy logic based relay search algorithm for cooperative systems. In *2009 First International Communication Systems and Networks and Workshops*, pages 1–7. IEEE, 2009.

Edited Book (Editor of Conference Proceeding)

- 2024 Proceedings of the Fifth International Conference on Trends in Computational and Cognitive Engineering TCCE 2023, Volume 1, Lecture Notes in Networks and Systems, <https://link.springer.com/book/10.1007/978-981-97-1923-5>
- 2023 ICT: Smart Systems and Technologies; Book Subtitle: Proceedings of ICTCS 2023, Volume 4; Series Title: Lecture Notes in Networks and Systems <https://doi.org/10.1007/978-981-99-9489-2>
- 2023 Third International Conference on Applied Intelligence and Informatics, AII 2023, Dubai, United Arab Emirates, October 29–31, 2023, Series Title: Communications in Computer and Information Science, <https://doi.org/10.1007/978-3-031-68639-9>
- 2023 Proceedings of Trends in Electronics and Health Informatics; Series Title: Lecture Notes in Networks and Systems; Publisher: Springer Singapore; <https://link.springer.com/book/9789819739363>
- 2022 Rhythms in Healthcare; Editors M. Shamim Kaiser, Mufti Mahmud, Shamim Al Mamun; Series Title: Studies in Rhythm Engineering; Publisher: Springer Singapore; <https://doi.org/10.1007/978-981-19-4189-4>
- 2022 Mahmud, M., Mendoza-Barrera, C., Kaiser, M. S., Bandyopadhyay, A., Ray, K., & Lugo, E. (2023). Proceedings of Trends in Electronics and Health Informatics: TEHI 2022. Springer. <https://link.springer.com/book/10.1007/978-981-99-1916-1>
- 2022 Proceedings of the Fourth International Conference on Trends in Computational and Cognitive Engineering TCCE 2022, Lecture Notes in Networks and Systems, <https://doi.org/10.1007/978-981-19-9483-8>
- 2022 ICT: Smart Systems and Technologies; Book Subtitle: Proceedings of ICTCS 2022; Series Title: Lecture Notes in Networks and Systems <https://doi.org/10.1007/978-981-19-9304-6>

- 2022 Second International Conference on Applied Intelligence and Informatics, AII 2022, Reggio Calabria, Italy, September 1–3, 2022, Series Title: Communications in Computer and Information Science <https://doi.org/10.1007/978-3-031-24801-6>
- 2021 ICT: Smart Systems and Technologies; Book Subtitle: Proceedings of ICTCS 2021; Series Title: Lecture Notes in Networks and Systems <https://doi.org/10.1007/978-981-19-0098-3>
- 2021 Kaiser, M. S., Bandyopadhyay, A., Ray, K., Singh, R., & Nagar, V. (Eds.). (2022). Proceedings of Trends in Electronics and Health Informatics: TEHI 2021 (Vol. 376). Springer Nature. <https://link.springer.com/book/10.1007/978-981-16-8826-3>
- 2021 First International Conference on Applied Intelligence and Informatics, AII 2021, Nottingham, UK, July 30–31, 2021, Series Title: Communications in Computer and Information Science, <https://doi.org/10.1007/978-3-030-82269-9>
- 2021 Proceedings of the Third International Conference on Trends in Computational and Cognitive Engineering, Series Title: Lecture Notes in Networks and Systems, <https://doi.org/10.1007/978-981-16-7597-3>
- 2020 Proceedings of International Conference on Trends in Computational and Cognitive Engineering, Series Title: Advances in Intelligent Systems and Computing, <https://doi.org/10.1007/978-981-33-4673-4>

Research Project

Foreign Funded Research Projects

- 01/2023–
1/2026 Partner Team Lead of Jahangirnagar University, SOHO – Smart, Optimized, High-quality, and On-demand Tourism Innovative Education for Sustainable and Green Development (2023-2026) Programme: Erasmus +. Total Funding: 1 Million euros.
- 01/2021–
1/2024 Coordinator (P5:Jahangirnagar University) of 'DIVERSASIA: Embracing diversity in ASIA through the adoption of Inclusive Open Practice.' Funder: European Commission. Programme: Erasmus +. Total Funding: 1 Million euros.
- 09/2020–
08/2023 Research Contributor, of 'AI-TOP: An AI Tool to Predict Engagement and 'Meltdown' Events in Students with Autism.' Funder: European Commission. Programme: Erasmus +. Total Funding: 0.6 Million euros.

Government Funded Research Projects

- 2022 - 2023 **Principle-investigator**, *Funded by: Jahangirnagar University*, Project Title: Towards AI/ML-based Personalized Education in the Context of Bangladesh..
- 2020 - 2021 **Principle-investigator**, *Funded by: University Grants Commission of Bangladesh*, Project Title: From Farm to Plate via Machine Learning and Blockchain -A Solution for Supply-Chain Management for a Smart Farming.
- 2020 - 2021 **Principle-investigator**, *Funded by: University Grants Commission of Bangladesh*, Project Title: Smart and Secure Supply Chain Management for Intelligent Agro.
- 07/15 -
06/16 **Principle-investigator**, *Funded by: Jahangirnagar University (BDT 3K)*, Project Title: Design and Implementation of Flood Warning System for Bangladesh Using WSN.
- 07/14 -
06/15 **Principle-investigator**, *Funded by: Ministry of Science and Technology (BDT 20K)*, Project Title: Design and Implementation of Flood Warning System for Bangladesh Using WSN.
- 07/13 -
06/15 **Co-investigator**, *Funded by: Ministry of Education (BDT 180K)*, Project Title: Design and Implementation of Grid Connected Solar Water Pumping System for Bangladesh.
- 07/13 -
06/14 **Project Director**, *Funded by University Grant Commission of Bangladesh (BDT 150+K)*, Project Title: Financial Feasibility and Performance Evaluation of Solar Powered Rickshaw.
- 07/13 -
06/14 **Project Director**, *Funded by Jahangirnagar University, (BDT 36K)*, Design and Implementation of Solar Power Boat.

07/12 - **Project Director**, *Funded by Ministry of Science and Technology , (BDT 70K)*, Design and
06/13 Implementation of Solar Power Tricycle Driving Circuit.

Student Supervision

Doctoral Degree (Completed)

- 2024 **Anesu Robin Dikito (Nationality:Zimbabwe)**, *Binary University*, Malaysia.
Analysis of Cybercrime and Cybersecurity in Zimbabwean Commercial Banks (Supervisor).
- 2022 **Manoj Sharma (Nationality: India)**, *Amity University*, Jaipur, Rajasthan.
Comparative Analysis of Different Classifiers on EEG Signals for Predicting Epileptic Seizure (**Co-supervisor**).

Doctoral Degree (On-going)

- 2024 **Chinofunga Shakemore (Nationality: Zimbabwe)**, *Binary University*, Malaysia.
Title: An assessment of predictors for adoption of Sustainable ICT practices in Zimbabwe
- Farhana Akter Sunny**, *Faculty Member of Green University of Bangladesh*, Dhaka, Bangladesh (ICT Fellow).
Title: Distributed Security and Encryption for Ensuring Security and Privacy of Healthcare Data (Supervisor)
- Sonia Corraya**, *Faculty Member, Jagannath University*, Bangladesh (ICT Fellow).
Title: A Study of Learners' Parameters Using Meta-Learning Data Analysis(Co-supervisor)
- Shamim Ahmed**, *Faculty member of Bangladesh University of Business and Technology*, Bangladesh (ICT Fellow).
- Biman Barua** .

Master's Student

- 2023 Shakila Shafiq, "Hybrid Nature-inspired algorithm: A Novel Solution to Feature Selection Problem for the Diagnosis of Neurodegenerative Diseases," Institute of Information Technology, Jahangirnagar University, Dhaka.
- 2021 J. F. Raisa, "A machine learning approach for early detection of postpartum depression in Bangladesh," Department of Information and Communication Engineering (ICE), Bangladesh University of Professionals (BUP).
- 2021 Md. Nahiduzzaman, "DRC: An Efficient and Secure Data Deduplication Scheme for Cloud Assisted Storage Systems with Redundancy Control"
- 2020 Md. Hasan Al Banna. "A Machine Learning Approach for the Prediction of Earthquakes in Bangladesh" Department of Information and Communication Engineering (ICE), Bangladesh University of Professionals (BUP).
- 2020 Md. Jaber Al Nahian. "Machine Learning Based Elderly Fall Detection Based on Interdisciplinary Time Series Features" Department of Information and Communication Engineering (ICE), Bangladesh University of Professionals (BUP).
- 2019 Fatematuz Johora, "Forecasting the Risk of Type II Diabetes using Reinforcement Learning" Institute of Information Technology, Jahangirnagar University, Dhaka.
- 2019 Tajim Md. Niamat Ullah Akhund, "Deep Reinforcement Machine learning approach to develop an IoT based Nurse Robot form Alzheimer's Patient Management." Institute of Information Technology, Jahangirnagar University, Dhaka.
- 2016 Saoreen Rahman, "FNN Based Cyber-Physical Attack Detection System" Institute of Information Technology, Jahangirnagar University, Dhaka.
- 2016 Fariha Afsana, "Performance Analysis of MC-CDMA based Cognitive Radio Network with Smart Antenna Concept", Institute of Information Technology, Jahangirnagar University, Dhaka.

- 2016 Farhana A. Sunny, "Counter Propagation ANN based Massive Adaptive Array Antenna Beamforming for mmWave Communication System". Institute of Information Technology, Jahangirnagar University, Dhaka.
- 2016 Nusrat Jahan, "An adaptive link selection algorithm for Cognitive Cooperative Network using Modified BAT Algorithm with Digital Network Coding Scheme", Institute of Information Technology, Jahangirnagar University, Dhaka.
- 2015 Maliha Mahboob, "Performance analysis of cognitive cooperative communications for WBAN", Institute of Information Technology, Jahangirnagar University, Dhaka.
- 2015 Nusrat Z. Zenia, "Performance Evaluation of Underwater Wireless Sensor Network". Institute of Information Technology, Jahangirnagar University", Dhaka.

Bachelor's Student

- 2024 Afroja Ahmed Smrity, Sayd Mahfid Rahman, Md Ziaur Rahman Joy, "Autism Rehabilitation with Meltdown Prediction Using Facial Expression and Hand Gesture Detection," Institute of Information Technology, Jahangirnagar University, Dhaka.
- 2024 Md. Shakil Ahmed, Md. Monir Hossain, Amit Azim Amit, "Towards Machine Learning based Banglish Sign Language Detection from Image data". Institute of Information Technology, Jahangirnagar University, Dhaka.
- 2024 A.H.M Sakif Shale, Sabikun Naher Monisha, B arnita Barai Sithee, "Alzheimer's Detection using XAI in Capsule Network and Post Detection Management with Portable Solution," Institute of Information Technology, Jahangirnagar University, Dhaka.
- 2022 UH Easha, M Obaydullah, J Arif, "Towards Federated-Deep Learning-Based Glaucoma Detection from Color Fundus Images", Department of Information and Communication Engineering (ICE), Bangladesh University of Professionals (BUP).
- 2021 Aktaruzzaman Antor, Mir Imtiaz Tarek, Hasibul Hasan, "A Secure, Scalable, Resource-Friendly 5G-Based E-health System with Decentralized Holochain" Department of Information and Communication Engineering (ICE), Bangladesh University of Professionals (BUP).
- 2021 Mohana Banik Propa, Sajarun Sadia, Kh. Shihab Al Mamun, "Thesis Title: A Fruit Cultivation Recommendation System based on Pearson's Correlation Co-EfficientDepartment of Information and Communication Engineering (ICE), Bangladesh University of Professionals (BUP).

Group 3:

- 2021 Surraiya Islam Tonni, Mahathir Mahmud Antik, Tajin Ahmed Aka, "Artificial Intelligence based Driver Vigilance System for Accident Prevention" Department of Information and Communication Engineering (ICE), Bangladesh University of Professionals (BUP).
- 2020 Yunus Miah; Chowdhury Nazia Enam Prima; Sharmeen Jahan Seema, "Performance Comparison of Machine Learning Techniques in Identifying Dementia from Open Access Clinical Datasets" Department of Information and Communication Engineering (ICE), Bangladesh University of Professionals (BUP).
- 2015 Zannatul Ferdous Syeda Puspita Mouri Syed Nazmus Sakib, Undergraduate student in Electrical Electronics and Communication Engineering, Military Institute of Science and Technology, Dhaka. Title-Modeling and Simulation for Efficiency of III-V Concentrator Photovoltaics
- 2014 Fariha Afsana, Nazia Islam, Farhana A. Sunny, Bachelor of Science Undergraduate student in Information Technology, Institute of Information Technology, Jahangirnagar University, Dhaka. Thesis Title: Multi-Priority and Trusted Multi-Path Selection Algorithm for Ad Hoc Network
- 2013 Arijet Sarker, Nasrin Fatema and Bratati Roy. Bachelor of Science Undergraduate student in Information Technology, Institute of Information Technology, Jahangirnagar University, Dhaka. Thesis Title: Performance Evaluation of Energy Efficient and Reliable Routing Algorithm for WSN.

- 2013 Md. Ebrahim Hossain, Taskin Noor Turna, Sultana Jahan Soheli. Bachelor of Science Undergraduate student in Information Technology, Institute of Information Technology, Jahangirnagar University, Dhaka. Thesis Title: Neuro-Fuzzy(NF)-based Adaptive Flood Warning System for Bangladesh.
- 2013 Mohibul Islam Khan, Farah Md. Imtiaz, K. A. Shahal Abdullah. Undergraduate student in Electrical Electronics and Communication Engineering, Military Institute of Science and Technology, Dhaka. Thesis Title: Performance Evaluation of Optical Wireless Communication For Indoor Applications.
- 2013 Gazi M. Shafiqul Alam, S Akhter, S. Mahmud. Undergraduate student in Electrical Electronics and Communication Engineering, Military Institute of Science and Technology, Dhaka. Thesis Title: Solar Power Wheel Chair for Physically Challenged People.
- 2012 Md. Asif Iqbal, Adiba Zahin and Zainu Sadia Islam. Undergraduate student in Electrical Electronics and Communication Engineering, Military Institute of Science and Technology, Dhaka. Thesis Title: Intelligent Transportation System for Dhaka.
- 2012 Zannatul Ferdous Smriti. Undergraduate student in Electrical and Electronic Engineering. Thesis Title: Dynamic Interference Management for OFDM based Joint Macro-Femto Cellular Networks.
- 2012 Tanveer Arif, Samit Chakraborty and Md. Samee Ullah Chowdhury, Undergraduate students in Electrical and Electronic Engineering, BRAC University, Dhaka. Thesis Title: A Fair Radio Resource Allocation For Multiservice Macro-Femto Cellular Network.
- 2012 Md. Sumon. Undergraduate students in Electrical Electronics Engineering, Eastern University, Dhaka. Thesis Title: Average Transmit Power Reduction in OFDM-based Indoor Wireless Optical Communication.
- 2006 Zehan T. Alam Undergraduate students in Computer Science, Daffodil International University, Dhaka. Thesis Title: Frequency Planning and Capacity utilization of UMTS system for Bangladesh.

Computer skills

Programming Languages	Python, PyTorch, keras, R, C, Matlab (ML, Communication, Filter, Fuzzy, ANN, ANFIS, DSP, Image Processing), OrCAD, Orange, LabView, dSPACE, GraphPAD, Jamovi
Database	MySQL
Networking	NS2, Packet Tracer, OpNET

Professional Services

Editorial Responsibilities

Since 2018	Associate Editor, IEEE Access.
Since 2020	Academic Editor, Plos One Journal.
2017 to 2021	Associate Editor, ULAB J. of Engineering
2012-2015,	Editor-in-chief, JU Journal of Information Technology (JIT)
2024 to till now	

Organizer

Local Organizer	Third International Conference on Trends in Electronics and Health Informatics (TEHI), Jahangirnagar University, Dhaka.
	2015 IEEE WIECON-ECE

Committee Members

Steering Committee	Trends in Computational and Cognitive Engineering (TCCE) Conference Series (Since 2020)
	Trends in Electronics and Health Informatics (TEHI) Conference Series (Founding Member)
	Applied Intelligence and Informatics (AII) Conference Series (Founding Member)

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Publication chair	<i>Brain Informatics 2018</i> (Texas, USA; Dec. 7-9); <i>BICS 2015</i> (Hefei, China; Dec. 11-13)
PC Members	Brain Informatics (since 2019); ICTP (since 2015); <i>ICONIP</i> (since 2017); IEEE-CICARE (since 2017); BICS (since 2018), BIM (since 2021)
Journals (Computing Sciences)	Cognitive Computation; Frontiers in Computational Neuroscience; Frontiers in Neuroinformatics; IEEE Computational Intelligence Magazine; Journal of Health & Medical Informatics; Journal of Computer Methods and Programs in Biomedicine; Neuroinformatics; Journal of Software
Journals (Life Sciences)	Frontiers in Neuroscience/Public Health; Giga Science Journal; Journal of Neuroscience Methods; Journal of Biomedical Signal Processing and Control; Journal of Bioprocessing & Biotechniques; MethodX; Scientific Reports
Conferences	Numerous reputed international conferences both in the field of computing and life sciences

Professional Membership

Senior Member	Institute of Electrical and Electronics Engineers (IEEE), USA; IEEE Computer Society Chapter, USA
Member	Association for Computing Machinery (ACM), USA
Member	International Association of Engineers (IAENG), Hong Kong
Life Member	Bangladesh Electronic Society (BES)
Life Member	Bangladesh Physical Society (BPS)
Life Member	Bangladesh Solar Energy Society (BSES)
Life Member	Bangladesh Physical Society (BPS)
Life Member	National Oceanographic And Maritime Institute - NOAMI
Founding Chapter Chair	IEEE Computer Society Bangladesh Chapter

Training & Certifications

12/2005	Three-Day Certificate Course on Mobile Communication Technology , <i>Organized by the Center for Information and Communication Technology (CICT)</i> , North South University, Bangladesh. This course provided in-depth training on the latest advancements in mobile communication technology.
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Voluntary Services

Since 2022	Vice President, IEEE Computer Society Southern Area Coordination Committee, R10 IEEE CS
2021	Member, IEEE Computer Society Southern Area Coordination Committee, R10 IEEE CS
2017,2018	Chapter Chair, IEEE Computer Society Bangladesh Chapter
2017	IEEE BDS Publicity Coordinator
2017	IEEE WIE Jahangirnagar University AG Counselor
2016	IEEE BDS Humanitarian Activity Coordinator
2015	IEEE Bangladesh Section Student Activity Coordinator
2015–till now	IEEE Jahangirnagar University Student Branch Counselor

Policy Document

Curriculum Development	Standard Curriculum Guidelines for BSc in CSE/IT/ICE/ICT (Published by the University Grants Commission of Bangladesh). This guideline is intended for use by Curriculum Development Committees of universities in Bangladesh when designing curricula for BSc programs in Computer Science, Information Technology, Information and Communication Engineering, and Information and Communication Technology. The guidelines aim to ensure consistency and quality in these programs' education.
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Awards, Scholarships & Fellowship

Post Doc Fellowship	Fusion-2, Erasmus Mundus Scholarship (Period: August 2016 to January 2018)
Special Research Fellowship	Wireless Signal Processing and Networking Laboratory (also known as Adachi Lab), Tohoku University, Sendai, Japan. (Period: July-September 2008)
Doctoral Fellowship	Asian Institute of Technology, Thailand (2007–2010)
Award	Notre Dame Man of the Year, Notre Dame College, Dhaka, Bangladesh, 2006
Government Scholarship	Awarded Government Scholarship from Government of Bangladesh at Standard VIII (Talent-pool Britti) for outstanding academic performance for 1991–1994

Foreign Research Collaborations (only key collaborations)

Since 2015	Prof. Mufti Mahmud , <i>Department of Computer Science; Computing and Informatics Research Centre; Medical Technologies Innovation Facility</i> , Nottingham Trent University, UK. Developing low-cost and wireless assistive/rehabilitation devices.
Since 2017	Prof. Stefano Vassanelli , <i>University of Padova, Italy</i> . Applications of deep learning and reinforcement learning to biological data
Since 2020	Prof Karl Andersson , <i>Lulea University of Technology</i> , Sweden. (a) Developing next-generation pervasive and mobile computing systems. (b) Security & Privacy in Next Generation Network.
Since 2017	Prof Amir Hussain , <i>Edinburgh Napier University</i> , the UK. Developing intelligent signal analysis tools for [e/m]Health applications.
Since 2017	Prof. M. Alamgir Hossain , <i>CEO, D-Ready</i> , the UK. Intelligent Transportation System and AI-based Urban Event Detection
Since 2020	Prof Shariful Islam , <i>Deakin University</i> , Australia. Developing novel digital health tools
Since 2019	Prof Ning Zhong , <i>Maebashi Institute of Technology</i> , Japan. Developing next-generation brain informatics tools.
Since 2019	Prof. Kanad Ray , <i>Amity University, Jaipur</i> , India. Development of low cost intelligent pHealth tools for detecting Epilepsy.

Keynote Talk/Technical Talk

- 2024 **Keynote Talk** at St. Xavier's University, Kolkata, India, Date: 06/09/2024. *Presentation Title: Industry Transformation Using AI/ML and IoT*
- 2023 **Keynote Talk** at CIIR 2023: International Conference on Cyber Intelligence and Information Retrieval, Kolkata, India on 18 December 2023. *Presentation Title: Transforming Industries with Artificial Intelligence (AI) and Machine Learning (ML)*
- 2022 **Keynote Talk** at International Webinar Series, Organized by Integral University, India on 20 May 2022. *Presentation Title: Next Generation Healthcare System: Challenges and Opportunity.*
Keynote Talk at the International Conference on Innovative Development in Virtual and Rapid Prototyping (IDVRP 2022), Organized by Uttaranchal University, India on 14 May 2022. *Presentation Title: Next Generation Healthcare System: Challenges and Opportunity.*
Technical Talk at Tutorial Session of International Conference on Innovations in Science, Engineering and Technology, Organized by IIUC, Bangladesh on 25 February 2022. *Presentation Title: Introduction to Deep Learning: An Overview.*

- 2021 **Keynote Talk** at the Green University of Bangladesh on 21 May 2021. *Presentation Title: IEEE Membership Benefits.*
- Keynote Talk** at Kustia Islamic University, Bangladesh on 06 May 2021. *Presentation Title: IEEE Membership Benefits.*
- Keynote Talk** at Winter School of BGC Trust University, Chattogram, Bangladesh on 13 Jan 2021. *Presentation Title: Academic Research and Technical Paper writing.*
- 2020 **Keynote Talk** at International Conference on Computing and Communication 2020, Sikkim, India. July 2020. *Presentation Title: THE RISE OF AI IN HEALTHCARE 4.0: Transforming Secure Healthcare Delivery using AI and 5G Network.*
- Keynote Talk** at International 'Technical Talk on Applications of AI In Deep/Core Engineering, 13 June 2020, India. *Presentation Title: Towards Sustainable Energy Management with AI and Data Analytic.*
- Keynote Talk** at Bangladesh Army University of Science and Technology (BAUST), Saidpur, Bangladesh, June 2020. *Presentation Title: Machine Learning for Healthcare and Rehabilitation and Future Carrier.*
- Keynote Talk** at International Conference on Machine Intelligence and Smart Computing (ICMISC 2020) 21st & 22nd May, India. *Presentation Title: IoHT-Transforming Healthcare System using Machine Learning, 5G Network and Distributed Security.*
- Keynote Talk** at the Fifth International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2020), Jaipur, Rajasthan, India. December 2020. *Presentation Title: xG Secure Sustainable Energy Management with AI and Data Analytics.*
- Keynote Talk** at BGC Trust University, Bangladesh on 12 May 2020. *Presentation Title: Can we Fight Against COVID-19 using Artificial Intelligence?*
- 2019 **Keynote Talk** at IEEE Bangladesh University of Professional Student Branch on Nov 29, 2019. *Presentation Title: How to write Scientific Research Paper*
- Keynote Talk** at International Conference on Data Science and Application (ICDSA-2019), 2nd–3rd December 2019, India. *Presentation Title: ML and IoT for Healthcare and Rehabilitation.*
- 2018 **Keynote Talk** at IEEE Stamford University Student Branch on 29 May 2018. *Presentation Title: How to write Scientific Research Paper.*
- Seminar Talk** organized by IEEE JU Student Branch, Dhaka, Bangladesh on 5th April 2018. *Title: Technical Report Writing using LaTeX*
- Keynote Talk** at the Dept. of Electronics and Telecommunication Engineering, Daffodil International University on 17 May 2018. *Presentation Title: Knowledge from Real-time Big data–Prospects and Challenges.*
- Keynote Talk** at the 3rd Technology Fest and Expo (Technically sponsored by IEEE Computer Society, Bangladesh Chapter) May (5th - 7th), 2018 Chittagong, Bangladesh. The Faculty of Science, Engineering and Technology (FSET), USTC organises the fest. on *Presentation Title: Sensor Fusion: A Paradigm Shift in Industry Revolution.*
- 2017 **Tech Talk** at the Anglia Ruskin IT Research Institute, Anglia Ruskin University, UK, July 15, 2017. *Presentation Title: Context-aware Crowd Analysis for Improved Traffic and Infrastructure Planning: A Review.*
- Tech Talk** at Anglia Ruskin IT Research Institute, ARU, Chelmsford, UK, on 23 May 2017. *Title: Crowd Analysis for Urban Event Detection*
- 2016 **Keynote Talk** at the Faculty of Engineering, University of Science and Technology Chittagong, Organized by Anglia Ruskin IT Research Institute, Anglia Ruskin University, UK, Sept 21, 2016. *Presentation Title: Prospects and Challenges of Multihop Wireless Networks.*
- Seminar Talk** at Anglia Ruskin IT Research Institute, ARU, Chelmsford, UK, 22 October 2016. *Title: Multihop Communication for the XG Wireless Network.*

Tech Talk at IEEE Region 10 (Asia Pacific) Mini-POCO 2016 on 12th November 2016, Dhaka.
Title: Plagiarism Checking and PLG for IEEE Technical Co-sponsored Conference

IEEE Day Talk at IEEE Stamford University Student Branch on 19 March 2016. *Title: IEEE Humanitarian Activities in Bangladesh and Tips for Writing a Project Proposal*

2015 **Tech Talk** at the Faculty of Engineering, USTC, Chittagong on 11 November 2015. *Presentation Title: Multi-hop Network for High-Speed Data Transmission: Present and Future*

Invited Talk at the IEEE-Day 2015, Dhaka, Bangladesh, 5 Oct. 2015. **Presentation Title: Artificial Intelligence for Transportation Systems**

Personal Information

Date of Birth 18 July 1977

Birthplace Chattogram, Bangladesh

Permanent Address: Road 1, Village: Samadarpara; Police Station: Satkania, Post Code: 4386, Zilla: Chattogram, Bangladesh

Present Address: Road 13/A, House 3, Sector 11, Uttara, Dhaka, 1230, Bangladesh

Father: Professor Dr. Mohammed Hanif Department of Nephrology Anwar Khan Modern Medical College Hospital, Bangladesh & Former Professor, Institute of Child Health, Dhaka Shishu Hospital, Dhaka

Mother: Khursheda Begum, Concern Women for Family Planning (Retired)

Spous: Married to Prof. Dr. Risala Tasin Khan, IIT, JU.

Referees

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