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## Dr. A.K.M. Muzahidul Islam

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### Professor, Dept. of CSE

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ROOM: 633 (E) PABX: 3116 Email: muzahid@cse.uiu.ac.bd Email: muzahid@cse.uiu.ac.bd \* Home \* Faculty Profiles

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### Biography

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**Prof. Dr. A.K.M. Muzahidul Islam** was born in Shariatpur district of Bangladesh. He has received M.Sc. in Computer Science and Engineering with Honours from Kharkiv National University of Radio Electronics (NURE), Ukraine, in 1999 and D.Eng. in the field of Computer Science and Engineering from Nagoya Institute of Technology (NiTech), Japan in 2007. He has received Japanese Government Monbusho Scholarship (October 2002 – March 2006). Prof. Muzahid has over Six (06) years of Industrial experiences in Bangladesh and in Japan. In January 2011, Prof. Muzahid has started his career as an Academician. Until January 2017, he served as a Senior Lecturer at Malaysia-Japan International Institute of Technology (MJIT) of Universiti Teknologi Malaysia (UTM), Kuala Lumpur, Malaysia. He has served as the IT Manager and a Member of the Management Committee of MJIT for around 05 years. He then served as an Associate Professor and Head of the Department of Computer Science and Engineering (CSE) at the University of Liberal Arts Bangladesh (ULAB), Bangladesh until September 2018. Currently, he is a Professor in the Department of Computer Science and Engineering (CSE) at United International University (UIU), Bangladesh. Earlier, he has served as the Director of the Directorate of Career Counselling and Student Affairs (DCCSA) and the Director of Center for International Affairs and Cooperation (CIAC). His research interests include Network Architecture, Communication Protocol, Cognitive Radio Network, Software Defined Radio, Wireless Sensor Network, IoT, Cloud Computing, Smart Healthcare, Smart Agriculture, etc., whereas his teaching interests include Structured Programming Language, Computer Networks, Data Communication, Wireless Sensor Network, Cloud Computing, Internet of Things (IoT), etc. Prof. Muzahid has published 113 Research Articles (including 01 Book, 02 Book Chapter, 38 peer-reviewed Journals and 72 Conference Papers). He has secured more than 10 National and International Research Grants. Prof. Muzahid has supervised 13 PhD students (05 – as the Main Supervisor and 08 – as a Co-Supervisor), 10 master’s students, and over 50 BEng Final Year Project through their graduation. Prof. Muzahid is the initiator and General Chair of ICBDB 2021 (Technically Co-Sponsored by CCIS, Springer), and WICBDB 2023 & WICBDB 2024 Workshops. He is also the initiator and Technical Program Chair in ICAICT 2016 and ICAICT 2020 International Conferences (ICAICT 2020 Technically Co-Sponsored by IEEE Bangladesh Section). He has served as the TPC Chair in the ETCCE 2020 and ETCCE 2021 International Conferences and as Secretariat in the ICaTAS 2016 International Conference, Malaysia and 7TH AUN/SEED-Net 2014 International Conference on EEE. He was an Advisory Member of ICBAPS2015, Malaysia, and also played as the Communication Track Chair at ICIEV15, ICAEE 2015, ICAEE 2017 and ICAEE 2019 International Conferences. Dr. Muzahid has served as an Associate Editor in the International Journal of Computer and Information Technology (IJCIT). Professional Engagements: \* Chartered Engineer (CEng) \* Senior IEEE Member (SMIEEE) \* Life Fellow IEB (FIEB) \* Ex-Member, Sectoral

Committee, BAETE, IEB \* Ex-Elected Member, Computer Division, IEB \* Evaluation Team, BAETE, IEB \* Ex-Educational Activity Coordinator, IEEE Bangladesh Section \* Ex-Student Activity Coordinator, IEEE Bangladesh Section \* Life Member, Harvard Business School Alumni Club Malaysia (HBSACM) \* Life Member, Soviet Alumni Association Bangladesh (SAAB)

Profile Summary

- **Professor** , Department of CSE, United International University (UIU), Bangladesh
- **Director and Lead Mentor**, UIU Advanced Underwater Robotics & Automation (UAURA), Bangladesh
- **Former Director**, Directorate of Career Counselling and Student Affairs (DCCSA), UIU, Bangladesh
- **Former Director , Center for International Affairs and Cooperation(CIAC)**, UIU, Bangladesh
- **Former Head and Associate Professor** , Department of CSE, ULAB
- **Former Senior Lecturer andIT Manager**, Malaysia-Japan Intâ€™I Institute of Technology (MJIT), Universiti Teknologi Malaysia (UTM), Malaysia
- **Former Visiting Professor, Dept. of CTN, Universiti Teknologi MARA (UiTM), Malaysia**
- **Former Adjunct Professor** , Department of CSE, **MIST, Bangladesh**
- **Former Member, Sectoral Committee, BAETE, IEB**
- **Former Educational Activity Coordinator**, IEEE Bangladesh Section.
- Research Interest on Network Architecture, Communication Protocol (WSN, CRN), IoT, Healthcare.
- Over **15 years** of experience in **Teaching, Research & Students Supervision**.
- Over Six (06) years of **Industrial experience** in Japan and Bangladesh.
- Chartered Engineer (**CEng**), the IET, UK
- Life Fellow IEB (**FIEB**)
- Senior Member IEEE (**SMIEEE**)
- Cisco Certified Network Associate (**CCNA**).
- Member of Harvard Business School Alumni Club Malaysia (HBSACM).
- Good communication skills in Bengali, English, Japanese, and Russian.
- **General Chair, Workshop onWICBBDB 2023 and WICBBDB 2024.**
- **General Chair, Intâ€™I Conference onICBBDB 2021.**
- **Initiator and Technical Program Chair of ICAICT 2016 and ICAICT 2020** Intâ€™I Conference.
- **Technical Program Chair of ETCCE2020** Intâ€™I Conference.
- Associate Editor, International Journal of Computer and Information Technology (IJCIT).
- Associate Editor, ULAB Journal of Science and Engineering.
- **Expert in Outcome Based Accreditation (OBA).**
- **Number of Publications: 113 (01 Book, 02 Book Chapter, 38 Journals and 72 Conference Papers)**

Work Experiences

10. 2018â€“Present	<b>Professor Department of Computer Science &amp; Engineering (CSE)United International University (UIU), Bangladesh</b>
01. 2017â€“09.2018	Associate Professor and Head Department of Computer Science and Engineering (CSE)University of Liberal Arts Bangladesh (ULAB), Bangladesh
01. 2011 â€“01.2017	Senior Lecturer (Assistant Professor) Malaysia-Japan International Institute of Technology (MJIT)Universiti Teknologi Malaysia (UTM), Kuala Lumpur, Malaysia
07.2009 â€“ 12. 2010	Systems Engineer Mehran Trading Co. Ltd, Aichi, Japan
07. 2008 â€“ 06. 2009	Network Engineer CONEXTIVO Inc., Aichi, Japan
04. 2007 â€“ 06. 2008	Programmer Ibis Inc., Aichi, Japan
11. 1999 â€“ 09. 2002	Senior Officer First Security Bank LTD., Dhaka, Bangladesh
<b>ADMINISTRATIVE POSITIONS HELD</b>	
* Director, Directorate of Career Counselling and Student Affairs (DCCSA), UIU, Bangladesh (February 2024 ~ August 2024)	
* Director, Center for International Affairs and	

Cooperation, UIU, Bangladesh (June 2022 ~ March 2024)	
* Head, Department of Computer Science and Engineering, ULAB, Bangladesh (October 2017 ~ September 2018)	
* Coordinator, Office of Faculty Research (OFR), ULAB, Bangladesh (May 2017 ~ May 2018)	
* IT Manager, Malaysia-Japan Int'l Institute of Technology (MJIT), UTM, Malaysia (September 2011 ~ August 2015)	

## Education

2003 ~ 2007	<b>Doctor of Engineering (DEng)Major: Computer Science and Engineering Nagoya Institute of Technology (NiTech) Nagoya, Aichi, Japan Awarded D.Eng. Degree</b>
1994 ~ 1999	M.Sc. in Engineering (Five-Year Integrated Program)Major: Computer Intellect Systems and Networks Kharkiv National University of Radio Electronics (NURE). Kharkiv, Ukraine
1993 ~ 1994	University Foundation ProgrammeMajor: Science and EGINEERING Moscow State University of Railway Engineering (MIIT) Moscow, Russia
1991 ~ 1992	Higher Secondary School Certificate (HSC)Major: Science Group Notre Dame College (NDC), Dhaka, Bangladesh
1986 ~ 1990	Secondary School Certificate (SSC)Major: Science Group Damodya Muslim High School, Shariatpur, Dhaka, Bangladesh
### Keynote / Invited Talk	
* <b>A.K.M. Muzahidul Islam</b> , Annual Paper Meet, EEE Division, IEB, Bangladesh (APMEE 2022), October 2022 ~ <b>Invited Speaker</b>	
* <b>A.K.M. Muzahidul Islam</b> , 10th International Conference on Quality for Sustainable Development (ICQSD), 25-27 November 2016, Chittagong, Bangladesh ~ <b>Keynote Speaker</b>	
* <b>A.K.M. Muzahidul Islam</b> , 10th Seminar of Communication Techniques on Wireless Sensor Networks, 02 November 2016, PCIU, Chittagong, Bangladesh ~ <b>Keynote/Invited Speaker</b>	
* <b>A.K.M. Muzahidul Islam</b> , 10th Seminar of Dynamic Wireless Sensor Networks for the IoT, 02 November 2016, CIU, Chittagong, Bangladesh ~ <b>Keynote/Invited Speaker.</b>	
* <b>A.K.M. Muzahidul Islam</b> , 10th Seminar of Communication Techniques on Ad Hoc Networks, 01 November 2016, BGC Trust University, Chittagong, Bangladesh ~ <b>Keynote/Invited Speaker</b>	
* <b>A.K.M. Muzahidul Islam</b> , 10th Architectures and Communication Protocols on Dynamic Wireless Sensor Networks, BIT's 2nd Annual World Congress of Emerging InfoTech-2013, Mobile Communication (I), June 2013, Dalian, China ~ <b>Invited Speaker</b>	

- Dr. Shozo Komaki of MJIIT, UTM has become an Invited Speaker of ICEV13 through an effort of Dr. A.K.M. Muzahidul Islam of MJIIT, UTM. URL: <http://cennser.org/ICIEV13/#speaker>
- Dr. Toshio Wakabayashi of MJIIT, UTM has become an Invited Speaker of ICEV14 through an effort of Dr. A.K.M. Muzahidul Islam of MJIIT, UTM. URL: <http://cennser.org/ICIEV/>
- Prof. Dr. Anthony Centeno of MJIIT, UTM has become an Invited Speaker of ICEV14 through an effort of Dr. A.K.M. Muzahidul Islam of MJIIT, UTM. URL: <http://cennser.org/ICIEV/>

## Administrative Position Held

- Director, Directorate of Career Counselling and Student Affairs (DCCSA), UIU, Bangladesh (February 2024 ~ August 2024)
- Director, Center for International Affairs and Cooperation, UIU, Bangladesh (June 2022 ~ March 2024)
- Head, Department of Computer Science and Engineering, ULAB, Bangladesh (October 2017 ~ September 2018)
- Coordinator, Office of Faculty Research (OFR), ULAB, Bangladesh (May 2017 ~ May 2018)
- IT Manager, Malaysia-Japan International Institute of Technology (MJIIT), UTM, Malaysia (September 2011 ~ August 2015)

## Publication

### Journal Papers

2023## Transfer Learning for Alzheimer's Disease Diagnosis using EfficientNet-B0 Convolutional Neural Network  
Publication: Journal of Advanced Research in Applied Sciences and Engineering Technology Author List: AKM Muzahidul Islam

## A Survey on IoT Driven Smart Parking Management System: Approaches, Limitations and Future Research Agenda

Computer Science Publication: IEEE Access Author List: AKM Muzahidul Islam

## A Survey on IoT Driven Smart Parking Management System: Approaches, Limitations and Future Research Agenda

Computer Science Publication: IEEE Access Author List: AKM Muzahidul Islam

## An Attention-Guided Deep-Learning-Based Network with Bayesian Optimization for Forest Fire Classification and Localization

Artificial Intelligence Publication: Forests Author List: AKM Muzahidul Islam

## DOLG-NeXt: Convolutional Neural Network with Deep Orthogonal Fusion of Local and Global Features for Biomedical Image Segmentation

Artificial Intelligence Publication: Neurocomputing Author List: AKM Muzahidul Islam 2022## Blockchain-Based Identity Management System and Self-Sovereign Identity Ecosystem: A Comprehensive Survey Blockchain Technology Publication: IEEE Access Author List: AKM Muzahidul Islam

## Symptom Based Explainable Artificial Intelligence Model for Leukemia Detection

Computer Science Publication: IEEE Access Author List: AKM Muzahidul Islam

# BanglaSER: A speech emotion recognition dataset for the Bangla language

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Computer Science Publication: Data in Brief Author List: AKM Muzahidul Islam 2021## Towards development of IoT-ML driven healthcare systems: A survey Publication: Journal of Network and Computer Applications Author List: Nabila Sabrin Sworna, Swakkhar Shatabda, A.K.M. Muzahidul Islam

## Challenges, Applications and Design Aspects of Federated Learning: A Survey

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Publication: IEEE Access Author List: K. M. Jawadur Rahman, A. K. M. Muzahidul Islam, Faisal Ahmed, Nazma Akhter, Mohammad Hasan, Ruhul Amin, Md. Saddam Hossain Mukta, A. K. M. Najmul Islam, Kazi Ehsan Aziz 2020## IProCAD: Intelligent Prognosis of Coronary Artery Disease Excluding Angiogram in Patient with Stable Angina Computer Science Publication: International Journal of Innovative Technology and Exploring Engineering Author List: AKM Muzahidul Islam

### Conference Papers

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2024## IoT and Satellite Image Driven Water Quality Monitoring and Assessment Method in Coastal Region Artificial Intelligence Conference: Algorithms for Intelligent Systems Author List: AKM Muzahidul Islam

## CropCare: Advanced Crop Management System with Intelligent Advisory and Machine Learning Techniques

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Artificial Intelligence Conference: 6th International Conference on Electrical Engineering and Information & Communication Technology (ICEEICT) Author List: AKM Muzahidul Islam 2022## Implementation of GSM and LTE Re-Configurable Cellular System Using USRP B200 Communications Conference: Tensymp 2022, July 1-3, India Author List: AKM Muzahidul Islam 2021## An Effective Leukemia Prediction Technique Using Supervised Machine Learning Classification Algorithm Conference: Proceedings of International Conference on Trends in Computational and Cognitive Engineering Author List: Mohammad Akter Hossain, A. K. M. Muzahidul Islam, Muhtasim Islam Sabik, Shadikun Nahar Sakiba, Ashir Ahmed, Salekul Islam, Swakkhar Shatabda, Md. Moshir Rahman 2021## An Effective Leukemia Prediction Technique Using Supervised Machine Learning Classification Algorithm Conference: Proceedings of International Conference on Trends in Computational and Cognitive Engineering Author List: Mohammad Akter Hossain, A. K. M. Muzahidul Islam, Muhtasim Islam Sabik, Shadikun Nahar Sakiba, Ashir Ahmed, Salekul Islam, Swakkhar Shatabda, Md. Moshir Rahman

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