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Dr. Ohidujjaman

Assistant Professor, Dept. of CSE

ROOM: 335 (C) PABX: Email: ohidujjaman@cse.uiu.ac.bd * [Home](#) * [Faculty Profiles](#)

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Profile

Scopus:<https://www.scopus.com/authid/detail.uri?authorId=57136845100> **Web of**

Science:<https://www.webofscience.com/wos/author/record/KIG-4207-2024> **Google**

Scholar:<https://scholar.google.com/citations?user=6b3nDr8AAAAJ&hl=en> **ORCID:**<https://orcid.org/0000-0002-8776-7145>

Contact: ohidujjaman@cse.uiu.ac.bd; tuhin_iu31@gmail.com; tuhin_iu31@yahoo.com **Biography:** Dr. Ohidujjaman received his B.Sc. (Honors) and M.Sc. degrees in Computer Science & Engineering from Islamic University, Kushtia, and United International University, Dhaka, Bangladesh, in 2008 and 2014, respectively. He obtained his PhD degree in Science and Engineering from the Graduate School of Science & Engineering at Saitama University, Saitama, Japan, in 2024. He is awarded the scholastic honor “ICT Scholarship” at B.Sc. and “Summa Cum Laude” at M.Sc. in 2005 and 2014, respectively. He worked as a Research Assistant at the Graduate School of Science & Engineering, Saitama University, Japan, from September 2022 to March 2024. Dr. Ohidujjaman is a former faculty member of Daffodil International University, Hamdard University Bangladesh, and Dhaka International University, respectively. In 2020, he achieved the “Teaching Practice Excellent” award from Daffodil International University. He is also a former Assistant Programmer of Bangladesh Computer Council (BCC), Agargaon, Dhaka. His research interests include speech signal processing, application of bone-conducted speech, NLP, UNL, and Machine learning.

Qualification

Doctor of Philosophy (PhD)

Department of Information and Computer Sciences

Graduate School of Science and Engineering

Field of Research: Speech Signal Processing

CGPA of course work: **4.0** out of 4.0; Degree Awarded: March, 2024

Award: Best Paper award

Shimamura Laboratory; Saitama University, Saitama, Japan **Master of Science (Thesis group)**

Department of Computer Science and Engineering

School of Science and Engineering

CGPA: **4.0** out of 4.0; Degree Awarded: April 2014
Award: Summa Cum Laude
United International University, Dhaka, Bangladesh **B.Sc. (Honors)**
Department of Computer Science and Engineering
Faculty of Applied Science and Technology
Result: **First** Class; Degree Awarded: December 2008
Award: ICT Scholarship, received from the President of Bangladesh (4 Dec., 2005)
Islamic University, Kushtia, Bangladesh **Higher Secondary Certificate (HSC)**
Group: Science, Board: Dhaka
Result: **First(*)** Division; Certificate Awarded: September 2002
Government Yasin College, Faridpur, Bangladesh **School Secondary Certificate (SSC)**
Group: Science, Board: Dhaka
Result: **First** Division; Certificate Awarded: June 2000
Harhi Vanga Madhyamik High School, Rajbari, Bangladesh

Experience

Assistant Professor, May 2016 – October 2024
Department of Computer Science and Engineering
Daffodil International University, Dhaka, Bangladesh **Research Assistant, September 2022 – March 2024**
Department of Information and Computer Sciences
Saitama University, Saitama, Japan
Lecturer, January 2015 – April 2016
Department of Computer Science and Engineering
Hamdard University Bangladesh, Gazaria, Munshiganj **Graduate Assistant, June 2014 – May 2017**
Department of Computer Science and Engineering
United International University, Dhaka, Bangladesh **Lecturer, October 2013– December 2014**
Department of Computer Science and Engineering
Dhaka International University, Dhaka, Bangladesh **Customer Service, February 2011–August 2012**
Red Hot Palace 59 King Street, Wallasey
Post Code: CH44 0BY, Liverpool, United Kingdom **Assistant Programmer, 01, December 2010–31 December 2010**
Bangladesh Computer Council (BCC) Dhaka, Agargaon -1207 **Lecturer, July 2009– November 2010**
Department of Computer Science
College of Development Alternative, Dhanmondi, Dhaka-1205 **Manager & IT Consultant, 01, June 2009–30, June 2009**
Care Inspection Ltd. Shahid Tajuddin Sarani, Moghbazar, Dhaka-1217

Awards, Honors, Scholarships

- 1. Japan Gasoline Corporation (JGC)-Saneyoshi Scholarship, 2021- 2024
- 2. Japan Educational Exchanges and Services (JEES) Scholarship 2022
- 3. Japan Student Services Organization (JASSO) Scholarship 2021-2022
- 4. Best paper award of IVSP-2024, Meiji University, Japan, March 15, 2024
- 5. Summa Cum Laude Scholarship from M.Sc. level, UIU, 2014.
- 6. Teaching Practices –Excellence Award-2020, from Daffodil International University, Bangladesh
- 7. ICT Scholarship/2005 (Ministry of Education), in the Public University category, from the Honorable President (Government of the People’s Republic of Bangladesh)

Research Interests

Speech Signal Processing, NLP, UNL, Machine Learning and Deep Learning

Publications

- 1. M. M. Hasan, S. M. Shaqib, S. Akter, A. P. Alo, S. A. Khushbu, M. N. Huda, and **Ohidujjaman**, –A transfer learning approach to classify insect diversity based on explainable AI–, Discover Life, April 2025, **Springer Nature** , (Indexed: **Web of Science [Clarivate]** & **Scopus** , Q2); <https://doi.org/10.1007/s11084-025-09680-x>
- 2. **Ohidujjaman**, Mahmudul Hasan, Shiming Zhang, Mohammad Nurul Huda, and Mohammad Shorif Uddin, –III- condition Enhancement for BC Speech Using RMC Method,– International Journal of Speech Technology (IJST), October 2024, **Springer Nature** , (Indexed: **Scopus** , Q1), Cite Score: 5.0; <https://doi.org/10.1007/s10772-024-10159-9>
- 3. **Ohidujjaman**, Mahmudul Hasan, Shiming Zhang, Mohammad Nurul Huda, and Mohammad Shorif Uddin, –Spectral Analysis of Bone-Conducted Speech Using Modified Linear Prediction,– International Journal of Speech

4. **Ohidujjaman** , Nozomiko Yasui, Yosuke Sugiura, Tetsuya Shimamura, and Hisanori Makinae, â€œPacket Loss Compensation for VoIP through Bone-Conducted Speech Using Modified Linear Prediction,â€ IEEE Trans. Electrical and Electronic Engineering, USA, Publisher: IEEJ and Wiley, Vol. 18, No. 11, 2023. (Indexed: **Web of Science [Clarivate]** & **Scopus**, Q3) DOI: <https://doi.org/10.1002/tee.23907>
5. **Ohidujjaman**, Y. Sugiura, N. Yasui, T. Shimamura and H. Makinae, â€œRegularized Modified Covariance Method for Spectral Analysis of Bone-Conducted Speech,â€ Journal of Signal Processing, Japan, Publisher: Research Institute of Signal Processing, Japan, Vol. 28, No. 3, 2024. (Indexed: **RISP**) DOI: <https://doi.org/10.2299/jsp.28.77>
6. **Ohidujjaman** , N. Yasui, Y. Sugiura, T. Shimamura and H. Makinae, â€œPacket Loss Concealment Estimating Residual Errors of Forward-Backward Linear Prediction for Bone-Conducted Speech,â€ International Journal of Advanced Computer Science and Applications (IJACSA), United Kingdom, Vol. 15, No. 4, April 2024. (Indexed: **Web of Science [Clarivate]** & **Scopus**, Q3) DOI: [10.14569/IJACSA.2024.01504126](https://doi.org/10.14569/IJACSA.2024.01504126)
7. M. S. Uddin, **Ohidujjaman** , M. Hasan, and T. Shimamura, â€œAudio Watermarking: A Comprehensive Review,â€ International Journal of Advanced Computer Science and Applications, United Kingdom, Vol. 15, No. 5, April 2024. (Indexed: **Web of Science [Clarivate]** & **Scopus**, Q3) DOI: [10.14569/IJACSA.2024.01505141](https://doi.org/10.14569/IJACSA.2024.01505141)
8. **Ohidujjaman** et al. â€œTraffic Management System Through Vehicle Detection and Counting,â€ Science Frontiers. Vol. 2, No. 4, 2021, pp. 61-66., Publisher: Science Publishing Group DOI: [10.11648/j.sf.20210204.13](https://doi.org/10.11648/j.sf.20210204.13).
9. **Ohidujjaman** , Md. Mizanur Rahman, Ms. Raihana Zannat, â€œClustering Algorithm with Asynchronous Programmingâ€ American Journal of Engineering Research (AJER), USA, Vol. 6, No. 8, pp. 286-294, 2017. (Index: DOAJ) [https://www.ajer.org/papers/v6\(08\)/ZI0608286294.pdf](https://www.ajer.org/papers/v6(08)/ZI0608286294.pdf)
10. **Ohidujjaman** , Mahmudul Hasan, and Mohammad Nurul Huda, â€œImproving Speech Signal Intelligibility by Optimal Computation using Single-Channel Adaptive Filtering,â€ IJCA, Vol. 106, No. 9, pp. 15-21, 2014. (Index: DOAJ) DOI: [10.5120/18547-9790](https://doi.org/10.5120/18547-9790)
11. **Ohidujjaman** , Mahmudul Hasan, and Mohammad Nurul Huda, â€œE-commerce Challenges, Solutions and Effectiveness Perspective Bangladesh,â€ International Journal of Computer Applications (IJCA) (0975-8887), Vol. 69, No. 2, pp. 9-17, May 2013. (Index: DOAJ) DOI: [10.5120/11989-7867](https://doi.org/10.5120/11989-7867)
12. Raihana Zannat, et. al. and **Ohidujjaman** , â€œDisease Prediction through Syndromes by Clustering Algorithmâ€, American Journal of Education and Information Technology; Volume 5, Issue 2, December 2021, pp. 93-96; Science Publishing Group. DOI: [10.11648/j.ajeit.20210502.15](https://doi.org/10.11648/j.ajeit.20210502.15)
13. Shammir Hossain, et. al. and **Ohidujjaman** , â€œHuman Activities Detection for Patient Convalescence,â€ Innovation, Vol. 2, No. 4, December 2021, pp. 84-91, Science Publishing Group. DOI: [10.11648/j.innov.20210204.15](https://doi.org/10.11648/j.innov.20210204.15)
14. Sakib-Ahmod et. al. and **Ohidujjaman** , â€œWeapons Detection of Criminal Activities Based on Computer Vision,â€ Advances, Vol. 2 , No. 4 , December 2021 , pp. 64 â€“ 67, Science Publishing Group. DOI: [10.11648/j.advances.20210204.11](https://doi.org/10.11648/j.advances.20210204.11)
15. Raihana Zannat, et. al. and **Ohidujjaman** , â€œEmpirical Speech Analysis of Wireless LAN over Wired LAN,â€ International Journal of Scientific & Engineering Research, Vol. 12, No. 2, February-2021. (Index: DOAJ)
16. M. U. Emon, et. al. and **Ohidujjaman** , â€œA Comparative Analysis of Autistic Spectrum Disorder (ASD) Disease for Children using ML Approaches,â€ American Journal of Engineering Research (AJER), Vol. 10, No. 03, pp. 121-126, 2021. (Index: DOAJ)
17. Maria Sultana Keya, et. al. and **Ohidujjaman** , â€œPerformance Analysis of Cardiovascular Disease using Machine Learning Approachesâ€, IJSER, Vol. 12, No. 2, January 2021. (Index: DOAJ)
18. Abdus Sattar , et. al. and **Ohidujjaman** , â€œPrediction of Finest Department Assortment on Undergraduate Admission Through Machine Learning Approachâ€, International Journal of Engineering Research & Technology (IJERT), Vol. 10, No. 02, February-2021. (Index: SemanticScholar) DOI : [10.17577/IJERTV10IS020118](https://doi.org/10.17577/IJERTV10IS020118)
19. Abdus Sattar, et. al. and **Ohidujjaman** , â€œFake News Recognition using Machine Learning and Natural Language Processing,â€ IJSER, Vol. 12, No. 3, January- 2021. (Index: DOAJ)
20. Abdus Sattar, et. al. and **Ohidujjaman** , â€œImplementation of NoSQL Database in Data Mining Models for Educational Big Data,â€ IJSER, Vol. 12, No. 3, January 2021. (Index: DOAJ)
21. Mohammad Salim Raza, Raihana Zannat, **Ohidujjaman** , â€œAdvanced Design of Smart Digital Application Using PIC 16F887A Microcontroller and DS 1307 RTC,â€ American Journal of Embedded Systems and Applications, Vol. 6, No. 1, pp. 30-36, 2018, Publisher: Science Publishing Group. (Index: CrossRef) DOI: [10.11648/j.ajes.20180601.15](https://doi.org/10.11648/j.ajes.20180601.15)
22. Md. Mizanur Rahman, **Ohidujjaman** , Mohammad Nurul Huda, â€œAsynchronous Programming for Big Data using K-Mean Clustering,â€ IJSER, France, Vol. 8, No. 6, 2017. (Index: DOAJ)
23. Md. Nahidul Islam, Md. Rakibul Islam, Mahmudul Hasan and **Ohidujjaman** , â€œDesigning a Sensible Block Semi-Random Interleaver for Turbo Codes,â€ International Journal of Computer Applications, USA, Vol. 145, No. 2, pp. 14-17, July 2016. (Index: DOAJ)
DOI: [10.5120/ijca2016910575](https://doi.org/10.5120/ijca2016910575)

Conference articles: 1. **Ohidujjaman** , Yosuke Sugiura, Tetsuya Shimamura, and Hisanori Makinae. 2024. Packet Loss Concealment Using Regularized Modified Linear Prediction through Bone-Conducted Speech. In 2024 6th International Conference on Image, Video and Signal Processing (IVSP 2024), March 14â€“16, 2024, Ikuta, Japan. ACM, New York, NY,

USA, 5 pages. Publisher: **ACM** , Index:**Scopus**. DOI: <https://doi.org/10.1145/3655755.3655774> 2. **Ohidujjaman** , Fahim Faysal, Shams Sumon, Mohammad Nurul Huda, â€œAutomatic Machine Translation for Bangla and English Resolving Ambiguities,â€ 2nd International Conference on Robotics, Electrical and Signal Processing Techniques (ICRESTâ€™21), 2021, AIUB, Bangladesh. Publisher: **IEEE** , Index:**Scopus**. DOI:10.1109/ICREST51555.2021.9331085 3. **Ohidujjaman** , et al., and Mohammad Nurul Huda, â€œPAPR Reduction of OFDM Signal by Scrutiny of BER Assessment and SPS-SLM Method via AWGN Channel,â€ 6th International Conference on Inventive Computation Technologies ICICT 2021, Coimbatore, Tamilnadu, India, Publisher: **IEEE** , Index:**Scopus**. DOI: 10.1109/ICICT50816.2021.9358762 4. Sakib Hossain, Mabiya Akter Emi, Mohsina Hossain Mishu, Raihana Zannat and **Ohidujjaman** , â€œCode Generator based on Voice Command for Multiple Programming Language,â€ 12th International Conference on Computing Communication and Networking Technologies, India, July 6-8, 2021. Publisher: **IEEE** , Index:**Scopus**. DOI: 10.1109/ICCCNT51525.2021.9579880 5. Minhaz Uddin Emon, et al., and **Ohidujjaman** , â€œPerformance Analysis of Diabetic Retinopathy Prediction using Machine Learning Models,â€ 6th International Conference on Inventive Computation Technologies ICICT 2021, Coimbatore, Tamilnadu, India. Publisher: **IEEE** , Index:**Scopus**. DOI:10.1109/ICICT50816.2021.9358612 6. Minhaz Uddin Emon, et al., and **Ohidujjaman** , â€œPerformance Analysis of Chronic Kidney Disease through Machine Learning Approaches,â€ 6th International Conference on Inventive Computation Technologies ICICT 2021, Coimbatore, Tamilnadu, India. Publisher: **IEEE** , Index:**Scopus**. DOI:10.1109/ICICT50816.2021.9358491 7. Md. Redone Hassan, et al., and **Ohidujjaman** , â€œA Knowledge Base Data Mining Based on Parkinsonâ€™s Disease,â€ 8th International Conference System Modeling and Advancement in Research Trends (SMART), 2019, Paper ID-102, Moradabad-India. Publisher: **IEEE** , Index:**Scopus**. DOI: 10.1109/SMART46866.2019.9117450 8. Abdullah Al Munzir, Md. Lutfor Rahman, Sheikh Abujar, **Ohidujjaman** and Syed Akhter Hossain, â€œText analysis for Bengali Text Summarization using Deep Learning,â€ 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT), IIT Kanpur, July 6-8, 2019. Proceedings: IEEE Xplorer, Paper ID-313. Publisher: **IEEE** , Index:**Scopus**. DOI: 10.1109/ICCCNT45670.2019.8944562 9. Sheikh Abujar, A.K.M. Masum, Md Mohibullah, **Ohidujjaman**, and Syed Akhter Hossain, â€œAn Approach for Bengali Text Summarization using Word2Vector,â€ 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT), IIT Kanpur, July 6-8, 2019. Proceedings: IEEE Xplorer. Publisher: **IEEE** , Index:**Scopus**. DOI: 10.1109/ICCCNT45670.2019.8944536 10. Akm Shahariar Azad Rabby, Rezwana Mamata, Monira Akter Laboni, **Ohidujjaman** , Sheik Abujar, â€œMachine Learning Applied to Kidney Disease Prediction: Comparison Study,â€ 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT), IIT Kanpur, July 6-8, 2019. Proceedings: IEEE Xplorer. Publisher: **IEEE** , Index:**Scopus**. DOI:10.1109/ICCCNT45670.2019.8944799 11. S M Mazharul Hoque Chowdhury, Sheikh Abujar, **Ohidujjaman** , K.B. M. Badruzzaman, Syed Akhter Hossain, â€œProduct Review Analysis using Social Media Data based on Sentiment Analysis,â€ 7th International Conference on Innovations in Computer Science and Engineering, Hyderabad, Telangana from 16th â€” 17th August, 2019. Proceedings: Lecture Notes in Networks and Systems, Vol. 103. Springer, Singapore, Paper ID- 287. Publisher: **Springer** , Index:**Scopus**. DOI: https://doi.org/10.1007/978-981-15-2043-3_57 12. Mahmudul Hasan, **Ohidujjaman** , and Mohammad Nurul Huda, â€œEnhancement of Speech Signal by Originating Computational Iteration using SAF,â€ IEEE International Symposium on Signal Processing and Information Technology-2014, Noida, India. Publisher: **IEEE** , Index:**Scopus**. DOI:10.1109/ISSPIT.2014.7300561

Conducted Courses

Undergraduate:

Structured Programming Language
Data Structures, Computer Algorithms
Artificial Intelligence, Machine Learning, Data Mining
Programming and Problem Solving
Discrete Mathematics, Numerical Methods
Operating System, System Analysis and Design

Graduate:

Machine Learning
Neuro-Fuzzy Systems
Advanced-Data Mining
Graph Theory
Statistical Machine Translation

Membership

Life Member of the Japanese Universities Alumni Association in Bangladesh (JUAAB)
Member, *Institute of Electrical and Electronics Engineers (IEEE)*.
Member of CSE, IU Alumni
Member of CSE, UIU Alumni

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- Dept. of EEE
- Dept. of Civil Engineering
- Dept. of Pharmacy
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- Dept. of EDS
- Dept. of MSJ
- SoBE (BBA, AIS, MBA, EMBA)
- Dept. of Economics
- Dept. of BGE

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