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Dr. Mohammad Nurul Huda

Professor, Dept. of CSE

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Education

Experiences as a Teacher: PhD	**Thesis Title:** A study on articulatory feature extraction for robust speech recognition.**Thesis Supervisor:** Professor Tsuneo Nitta.**University:** Toyohashi University of Technology, Aichi, Japan Web: www.tut.ac.jp **Department:** Electronics and Information Engineering. **Degree Awarded Date:** March 2009.
M. Sc. Engineering	**Thesis Title:** Study on Huffman Coding (for data compression).**Thesis Supervisor:** Professor M. Kaykobad.**University:** Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh. Web: www.buet.ac.bd **Department** : Computer Science and Engineering (CSE). **Degree Awarded Date:** October 2004
B. Sc. Engineering	**Thesis Title:** Analysis of Multiplication-based Algorithms.**Thesis Supervisor:** S. U. M. Salim Zabir, Ex. Lecturer, BUET, Dhaka.**University:** BUET, Dhaka,**Department** : CSE. **Degree Awarded Date:** June 1997
Higher Secondary School (12 th grade)	**College:** Government (Govt.) Science College, Dhaka**Group:** Science, **Board:** Dhaka**Certificate Awarded Date:** June 1990
Secondary School(10 th grade)	**School** : Lakshmipur Adarsha Samad Govt. High School, Bangladesh.**Group:** Science, **Board:** Comilla, Bangladesh**Certificate Awarded Date:** March 1988

Experiences

Professor, 17 th Dec 2013-Now	CSE Dept., United International University, Dhaka, Bangladesh. Web: **www.uiu.ac.bd**
Visiting Professor, 15 th Nov, 2013-15th Dec, 2013 (One Month Leave with Pay from UIU)	Environment and Engineering Dept., Northumbria University at Newcastle, UK, Web: www.northumbria.ac.uk
Professor, 13 th June 2013-14th Nov, 2013	CSE Dept., United International University, Dhaka, Bangladesh. Web: www.uiu.ac.bd
Associate Professor, 16 th April 2009- 12th June 2013	CSE Dept., United International University, Dhaka, Bangladesh. Web: www.uiu.ac.bd

Assistant Professor, Ist-15th April 2009	Department of CSE, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh. Web: *www.aust.edu*
Research Assistant (Sep. 2007-March. 2009)	GCOE, Frontiers of Intelligent Sensing, Toyohashi University of Technology, Japanwww.gcoe.tut.ac.jp
Assistant Professor, October 2005-Mar 2009 (On study leave)	Department of CSE, AUST, Dhaka
Assistant Professor, Oct. 2000- Sep. 2005	Department of CSE, AUST, Dhaka
Lecturer, Sep. 1997- Sep. 2000	Department of CSE, AUST, Dhaka
Vice-Chancellor(VC) Candidates:	
* United International University(UIU)- Year 2018	
* Sonargaon University(SU)- Year 2019	

Administrative Positions during Carrier : * Director, MSCSE Program, UIU [From October 2018] * MSCSE Coordinator, UIU [From June 2009] * Academic Council Member, UIU [Current] * Academic Admin Committee, UIU [Current] * Curriculum Review Committee Member, CSE Dept., UIU [Current] * Admission Committee Member, CSE Dept., UIU [Current] * Chair, Credit Transfer Committee, CSE Dept., UIU [Current] * Head, CSE, IBAIS University, Dhaka * MSCSE Coordinator, IBAIS University, Dhaka * President, Bangladesh Society, Toyohashi University of Technology, Japan * Provost, Ahsanullah University of Science and Technology (AUST) Hostel

Research Project as a Consultant : * **Smart Irrigation System:** World Bank Project under Renewable Energy Lab, UIU, Bangladesh [Finished] * **Anubad:** English to Bengali Machine Translation Project, UIU sponsored project * **Natural Language Processing (NLP) Project:** eGeneration Ltd, Simon Centre, Gulshan-I, Dhaka-1212, Bangladesh * **Smart Reception:** Innovation Fund by ICT Ministry, Bangladesh

IEB (Engineers Institute Bangladesh) Accreditation Visiting Team Member: * CSE Department for International University of Business Agriculture and Technology (IUBAT), Uttra, Dhaka

IQAC (Internal Quality Assurance Cell by UGC): * IQAC Member, CSE Dept., United International University, Dhaka, Bangladesh * Peer Review Team Member as Subject Expert, University of Liberal Arts Bangladesh

Recruitment Committee Member: * United International University(UIU), Dhaka, Bangladesh * Promotion Committee of Stamford University Bangladesh * Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh * University of Liberal Arts Bangladesh(ULAB), Dhaka, Bangladesh * IBAIS University, Dhaka, Bangladesh * Infinity Institute of Technology, Dhaka

Question Moderation Committee Member: * United International University, Dhaka, Bangladesh * Military Institute of Science and Technology(MIST), Mirpur, Dhaka * Ahsanullah University of Science and Technology, Dhaka, Bangladesh

Best Teacher/Best Student Selection Committee Member: * Military Institute of Science and Technology(MIST), Mirpur, Dhaka, Year-2018 * Military Institute of Science and Technology(MIST), Mirpur, Dhaka, Year-2019

Experiences as an International Question Maker Committee Member: Member of Question Maker Committee (QMC) of Information Technology Engineers Examination (ITEE) organized by Japan International Cooperation Agency (JICA). *Web: http://www.bditec.gov.bd/?page_id=13* **Experiences as a Part-Time Teacher:** 1. Institute of Information and Communication Technology(IICT), BUET 2. Bangladesh Institute of Management (BIM), Dhaka 3. Bangladesh Open University(BOU), Gazipur, Dhaka 4. Military Institute of Science and Technology(MIST), Dhaka 5. Asian University of Bangladesh, Dhaka 6. The University of Asia Pacific, Dhaka 7. IBAIS University, Dhaka 8. Dhaka International University 9. Jagannath College, Dhaka 10. Vocational Education and Training Institute, AUST, Dhaka 11. The Peoples University of Bangladesh, Dhaka 12. Infinity Institute of Technology, Dhaka

Achievements, Awards, and Grants

- Invited Speaker in UNESCO, France on Language Technology for All (LT4all) Conference in Dec,2019
- JICA Grant for Training of ITEE in Myanmar, November 2018
- JICA Grant for Training of ITEE in Japan, February 2016
- MONBUKAGAKUSHO scholarship, ministry of Education, Culture, Sports, Science and Technology, Japan from October 2005 to March 2009.
- International Conference Attendance Grant for China from COE program â€œThe 21st Century COE program

â€œIntelligent Human Sensingâ€, MEXT, Japan, 2007.

- International Conference Attendance Grant for Antwerp, Belgium from Toyohashi University of Technology, 2007.
- International Conference Attendance Grant for Brisbane, Australia from Global COE program â€œFrontiers of Intelligent Sensingâ€, MEXT, Japan, 2008.
- International Conference Attendance Grant for Hawaii, USA from Global COE program â€œFrontiers of Intelligent Senseingâ€, MEXT, Japan, 2009.
- Research Grant from Global COE, MEXT, Japan from October 2007 to March 2009.
- Education Board Scholarship from October 1992 to May 1997.
- Education Board Scholarship from July 1988 to June 1990.
- Junior School Scholarship from January 1986 to December 1987

Research field

- Speech Recogniion
- Speech Synthesis
- Speech Analysis
- Machine Translation
- Phonetics
- Artificial Intelligence
- Fuzzy Based System
- Machine Learning
- Algorithms
- Pattern Classification

Others

MSc Thesis Conduction 1. Md. Asfak-ur-Rahman, â€œGender Effect Canonicalization for Bangla ASR,â€ United International University, Dhaka, Bangladesh. 2. Khaledun Nahar Babi,â€Gender Independent Bangla Automatic Speech Recognition,â€ M. Sc in CSE Thesis 2012, United International University, Dhaka, Bangladesh. 3. Arif Hossen, â€œHybridization of Speech features for Bangla Phoneme Recognition,â€ M. Sc in CSE Thesis 2012, United International University, Dhaka, Bangladesh. 4. Foyzul Hasan, â€Neural Network based Context Sensitive Triphone HMM for Bangla ASR,â€ M. Sc in CSE Thesis 2012, United International University, Dhaka, Bangladesh. 5. Qumrun Nahar Eity, â€œBangla Speech Recognition based on two stage MLNs,â€ M. Sc in CSE thesis 2010, United International University, Dhaka, Bangladesh. 6. Sharif Mohammad Mushfiqur Rahman â€œEffects of Articulator Movements on Automatic Speech Recognition,â€ M. Sc in CSE thesis 2010, United International University, Dhaka, Bangladesh. 7. Gazi Mohammad Mushfiqul Islam â€œEffects of Articulatory Dynamic Parameters on Automatic Speech Recognition,â€ M. Sc in CSE thesis 2010, United International University, Dhaka, Bangladesh. 8. Mohammed Rokibul Alam Kotwal â€œAutomatic Speech Recognition Based on Tandem MLNs,â€ M. Sc in CSE thesis 2010, United International University, Dhaka, Bangladesh. 9. Manoj Banik, â€œSyllable Based Subword Language Model on Automatic Speech Recognition,â€ M. Sc in CSE thesis 2010, United International University, Dhaka, Bangladesh. 10. Mahood A. Rashid â€Concepts of Data Mining and Implementation of Association Rules over Relational DBMS,â€ M. Sc in CSE thesis 2004, IBAIS University, Dhaka, Bangladesh.

As an external examiner for PhD in International Institutes : 1. Seema Mahajan, â€œModeling and Prediction of Rainfall Data,â€ PhD thesis supervised by DR. HIMANSHU S. MAZUMDAR Professor E.C and Head R&D Center D. D. University, Nadiad-387001, DEPARTMENT OF RESEARCH & DEVELOPMENT FACULTY OF TECHNOLOGY DHARMSINH DESAI UNIVERSITY, NADIAD, INDIA, June 2014

As an external examiner for PhD in CSE of BUET : 1. A. H. M. Kamal,â€ Predictive Reversible Data Hiding Scheme for Enhanced Embedding Capacity,â€ PhD in CSE 2017 supervised by Dr. Mahfuzul Islam, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh.

As an external examiner for M. Sc. Engg. of BUET: 1. Tanzima Azad (Student ID: 0412052048P), â€œIdentifying Points Of Interest From Crowd-Sourced Trajectory Dataâ€, M. Sc. In CSE thesis Supervised By Dr. Eunus Ali, Session: April 2012, CSE, BUET, Dhaka, Bangladesh 2. Mohsin Uddin Anowar (Student ID: -), â€œAutomatic Speech Authentication for Mobile Applicationâ€, M. Sc. In ICT thesis Supervised by Dr. Liakot Ali, Session: April 2010, IICT, BUET, Dhaka, Bangladesh 3. Nazia Hossain (Student ID:0413052010P), â€œSpeaker Identification from Extracted Features of Selective Energized Voice Signalâ€, M. Sc. In CSE thesis 2013, Session: April 2013, BUET, Dhaka, Bangladesh 4. Sabah Binte Noor (Student ID:0413052049), â€œA Ensemble Approach with Insightful Features for Spoiler Detectionâ€, M. Sc. In CSE thesis 2013, Session: April 2013, BUET, Dhaka, Bangladesh. 5. A.F.M Golam Kibria (Student ID: 100705081), â€œIllumination Invariant Color Image Segmentation Integrating Visible Color Difference with Edge Informationâ€, M. Sc. In CSE thesis 2007, Session: October, 2007, BUET, Dhaka, Bangladesh. 6. Ayon Sen, â€œAn Algorithmic Framework Based on the Binarization

Approach for Supervised and Semi-supervised Multiclass Problems,â€ M. Sc. in CSE thesis 2012, Presented on May 2014, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh. 7. Saif-Ul-Islam Khan,â€Spatio Temporal Keyword Search for Nearest Neighbor Queries,â€ M. Sc. in CSE thesis 2012, Presented on April 2014, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh. 8. Md. Mustafizur Rahman, â€œA Novel Layer based Ensemble Architecture for Time Series Forecasting,â€ M. Sc. in CSE thesis 2011, Presented on August 2013, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh. 9. Rezwana Reaz, â€œConstructing Phylogenetic Trees using Quartet-Based Method,â€ M. Sc. in CSE thesis 2011, Presented on June 2013, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh. 10. Rashedul Hasan,â€Meta-heuristic Algorithms and Experimental Analysis for the Unique Restriction Site Placement Problem,â€ M. Sc. in ICT thesis 2010, Presented on June 2013, IICT, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh. 11. Mahfuza Sharmin, â€œOptimal Placement of Unique Restriction Sites in Synthetic Genomes,â€ ,M. Sc. in CSE thesis 2009, Presented on October 2012, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh. 12. Mohammad Saber, â€œScheduling of Relay Nodes in Heterogeneous Wireless Sensor Network,â€ M. Sc. in CSE thesis 2005, Presented on October 2009, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh. 13. Md. Asif Imran, â€œNeuro-Fuzzy Model for Car Following Behavior in Heterogeneous Road Traffic Condition,â€ M. Sc. in Civil Engineering 2007 Thesis, Presented on December 2009, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh. 14. Md. Faizul Bari, â€œString regularities and degenerate strings,â€ M. Sc. in CSE 2007 Thesis, Presented on December 2009, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh. 15. Shahidul Islam Khan, â€œA New Fragmentation and Allocation Technique for Distributed Database System,â€ M. Sc. in CSE 2005 Thesis, Presented on March 2011, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh. 16. Md. Abu Sayeed Mondol , â€œA Resource Reservation Scheme for Workflow-based Applications in Grid,â€ M. Sc. in CSE 2008 Thesis, Presented on April 2011, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh.

Reviewer of International Papers 1. International Conference on Communications and Electronics, 2010 (ICCE 2010),Vietnam 2. 4th International Conference on **S** oftware, **K** nowledge, **I** nformation **M** anagement and **A** pplications (SKIMA 2010)

Chair of International Conference: 1. 14th International Conference on Computer and Information Technology, ICCIT 2011, Dhaka, Bangladesh. 2. 13th International Conference on Computer and Information Technology, ICCIT 2010, Dhaka, Bangladesh. 3. International Joint Conference on Computational Intelligence (IJCCI) 2018, Published by Springer Nature, December 2018. 4. ICASERT 2019 explored by IEEE, Dhaka, Bangladesh

Invited Speaker: 1. Workshop on Computational Intelligence, BUET, Dhaka **Professional Affiliations:** * Institute of Engineers Bangladesh(IEB), Member. * ISCA (International Speech Communication Association), Student member. * ASJ(Acoustic Society of Japan), Student member. * BCS(Bangladesh Computer Society), Fellow

Personal Information: * Date of birth: 15th July, 1973. * Motherâ€™s name: Mrs. Salma Khatun. * Fatherâ€™s name: Late Mohammad Noor Nabi. * Nationality: Bangladeshi (by birth). * Religion: Islam * Village: Shomsherabad, Lakshmipur Pourashava, Post: Lakshmipur * P.S: Lakshmipur, Upazila: Lakshmipur, District: Lakshmipur, Bangladesh.

Brothers and Sisters Educational Qualification: Brother/Sister Name | Graduated University

Brother/Sister Name	Graduated University
Md. Nurul Alam	â€“
Md. Shamsul Islam	Civil Engg, BUET
Md. Ibrahim Khalil	Civil Engg, BUET
Md. Anwar Hossain	Jagannath University
Md. Rakibul Islam	ICMA
Md. Zakir Hossain	ACCA
Md. Murad Hossain	Jagannath University, ICMA
Ms. Samia Akter	Jahangirnagar University

Publication

Journal Papers

2021## Development of Bangla Spell and Grammar Checkers: Resource Creation and Evaluation Natural Language Processing Publication: IEEE Access Author List: Nahid Hossain, Mohammad Nurul Huda, Salekul Islam 2015## Bangla text document categorization using Stochastic Gradient Descent (SGD) classifier Natural Language Processing Publication: 2015 International Conference on Cognitive Computing and Information Processing(CCIP) Author List: Mohammad Nurul Huda

Conference Papers

2018## A Comprehensive Parts of Speech Tagger for Automatically Checked Valid Bengali Sentences Natural Language Processing Conference: 2018 21st International Conference of Computer and Information Technology (ICCIT) Author List: Nahid Hossain, Mohammad Nurul Huda

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