

# Curriculum Vitae

## **Md. Ekramul Hamid**

Professor  
Department of Computer Science & Engineering  
University of Rajshai  
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Fathers Name: Late Professor M. A. Hamid  
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### Positions

- Chairman, Department of Computer Science and Engineering, University of Rajshahi, from September 2011 to Todate.
- Sub-Project Manager, Higher Education Quality Enhancement Project, Department of Computer Science and Engg., University of Rajshahi, from April 2012 to Todate.
- Master Trainer, IT Engineers Examination Center, ITPEC (japan), BCC, Dhaka.

### Educational Background

- a. PhD (Mar, 2007): Graduate School of Electronic Science and Technology, Shizuoka University, Shizuoka, Japan.
- b. MCS (2002): Masters of Computer Science, University of Pune, Maharashtra, India.
- c. MSc (1994): Dept. of Applied Physics and Electronics, University of Rajshahi, Rajshahi, Bangladesh.
- d. BSc (Honours 1992): Dept. of Applied Physics and Electronics, University of Rajshahi, Rajshahi, Bangladesh.
- e. Higher Secondary Certificate (1986): Rajshahi College, Rajshahi, Bangladesh.
- f. Secondary School Certificate (1984): Rajshahi University School, Rajshahi, Bangladesh.

### Professional Experiences:

Professor (December, 2013 to date): Dept. of Computer Science and Engineering, University of Rajshahi, Rajshahi, Bangladesh.

Associate Professor (June, 2007 to December 2013): Dept. of Computer Science and Engineering, University of Rajshahi, Rajshahi, Bangladesh.

Assistant professor (Oct, 2009 to Sep 2011): Department of Computer Network Engineering, College of Computer Science, King Khalid University, Abha, Kingdom of Saudi Arabia.

Assistant professor(Feb, 2000 to June, 2007): Dept. of Computer Science and Technology, University of Rajshahi, Rajshahi, Bangladesh.

Lecturer(Feb. 1998 to Feb. 2000): Dept. of Computer Science and Technology, University of Rajshahi, Rajshahi, Bangladesh.

Lecturer(Feb. 1997 to Feb. 1998): Dept. of Applied Maths. And Computer Science, Islamic University, Kushtia, Bangladesh.

#### Research Interest

- Speech Enhancement, Speech noise reduction, Speech feature extraction
- Digital Signal Processing
- Image Signal Processing and Computer Vision

#### Reviewer:

- Reviewer of the ETRI journal, Korea

#### Thesis/Dissertation

Ph.D. Thesis Title: A single-channel noise reduction method of speech by noise subtraction and blind source separation. Graduate school of electronic science and technology, Shizuoka University, Japan.

M.Sc. Thesis Title: Software development of computer processing of Bangla speech. Department of Applied Physics and Electronics, University of Rajshahi, Rajshahi-6205, Bangladesh.

#### Awards

- JASSO Follow-up Research Fellowship, 2012, Nov.2012 to Jan 2013, Shizuoka University, Japan.
- Best paper award, International Journal on Computer Science and Information Security, November, 2010.
- Scholarship awarded by the ministry of education, culture, sports, science and technology (MONBUKAGAKUSHO), Japan throughout the PhD courses, October 2003-March 2007.
- University award for obtained first class first position, 1995.

#### Supervising

- PhD thesis: **Enhancement of Noisy Speech Signal**

#### Publications

##### Local and International Journal Papers

23. M. K. I. Molla, S. Das, **M. E. Hamid** and K. Hirose, "Empirical Mode Decomposition for Advanced Speech Signal Processing", Journal of Signal Processing Vol. 17, No. 6, pp.215-229, Japan, November 2013.

22. Most. S. Akter, M. R. Islam, B. K. Pramanik, M. S. Islam and **M. E. Hamid**, "Separation of Ocular Artifacts from EEG Signal using Noise Assisted Bi-variate Adaptive Filtering", Int. journal of Bio-Science and Bio-Technology, vol. 5, no.4, pp. 117-128, Korea, August 2013.

21. **M. E. Hamid**, M. K. I. Molla, X. Dang and T. Nakai, "Single Channel Speech Enhancement using Adaptive Soft-Thresholding with Bivariate EMD", journal of ISRN Signal Processing, Hindawi Publishing Corporation, Vol. 2013, pp.1-9, 2013.

20. S. K. Pramanik, S. Pramanik, B. K. Pramanik, M. K. I. Molla and **M. E. Hamid**, "Hybrid Classification Algorithm for Knowledge Acquisition of Biomedical data", International Journal of Advanced Science and technology, Vol. 44, pp. 99-111, Korea, July 2012.

19. **M. E. Hamid**, S. Das, K. Hirose, M. K. I. Molla, "Speech Enhancement Using EMD Based Adaptive Soft-Thresholding (EMD-ADT)", *International Journal of Signal Processing, Image Processing and Pattern Recognition*, Vol. 5, No. 2, Korea, June 2012.
18. Md. H. Kabir, B. K. Pramanik, S. Das, S. Pramanik and **M. E. Hamid**, "Trusted On-demand Distance Vector Routing for Ad hoc Networks", *International Journal of Computer Science and Information Security*, Vol. 10, No. 3, pp. 37-44, USA, March 2013
17. M. Qayyum, Subhash, P and **M. E. Hamid**, "Data Replication Techniques in Mobile Adhoc Networks", *International Journal of Advances in Computer, Electrical and Electronics Engineering*, Volume 1, Issue 1, pp. 6-10, October 2011 – March 2012.
16. M. Rafi, **M. E. Hamid**, and R.S.D Wahidabanu, "Pedestrian Gait Parameter Measurement Using a Cascade of Edge and Corner Detector", *Journal of Computer Technology & Applications*, Volume 2, Issue 2, Pages 1-12, October 2011.
15. B.K. Pramanik, **M. E. Hamid**, Somlal Das, Kazi J. Rahman, Md. Humayum Kabir and M. Hammar, "Selective Area Epitaxy of current blocking layers for Vertical Cavity Surface Emitting Laser application", *Canadian Journal on Electrical and Electronic Engineering*, Vol. 2, No. 9, pp: 443-453, September 2011.
14. M. K. I. Molla, K. Hirose and **M. E. Hamid**, "Localization Based Beamforming Approach to Audio Source Separation from Binaural Mixtures", *Current Trends in Signal Processing, STM journals*, vol. 1 no. 1, pp 1-9, June 2011.
13. M. K. I. Molla, W. Gharibi, and **M. E. Hamid**, "Principal Component Analysis Based Dominant Features Selection Method for Speaker Identification", *Current Trends in Signal Processing*, vol. 1 no. 1, pp 10-21, June 2011.
12. M. Rafi, **M. E. Hamid**, M. Samiullah, and R.S.D Wahidabanu "A Parametric Approach to Gait Signature Extraction for Human Motion Identification", *International Journal in Image Processing (IJIP)*, Vol. 5, No. 2, pp. 185-198, Malaysia, June 2011.
11. **M. E. Hamid**, M. Hasan, Md. I. Rahman, and W. Gharibi, "Speech Activity Detection of Noisy Speech using Estimated Degree of Noise (EDON)", *Canadian Journal on Signal Processing* Vol. 2, No. 3, pp: 24-31, June 2011.
10. M. Rafi, S. Ahmed, **M. E. Hamid**, and R.S.D Wahidabanu, "A New Approach for Model based Gait Signature Extraction", *International Journal of Computer Science and Information Security*, Vol. 9, No. 3, pp. 90-94, USA, March 2011.
9. F. A. Mazarbhuiya, **M. E. Hamid**, "Finding Fuzzy Locally Frequent Itemsets", *International Journal of Computer Science and Information Security*, Vol. 9, No. 1, pp. 139-146, USA, January 2011.
8. S. Das, **M. E. Hamid**, K. Hirose, M. K. I. Molla, "Single-Channel Speech Enhancement by NWNS and EMD", *Signal Processing: An International Journal (SPIJ)*, Vol. 3, No. 5, pp. 279-291, Malaysia, December 2010.

7. **M. E. Hamid**, S. Saha, M. Qayyum, "Multiplayer Enhanced Make Square Game in the Net", International Journal of Computer Science and Information Security, Vol. 8, No. 9, pp. 216-223, USA, December 2010
6. **M. E. Hamid**, M. Z. Uddin, M. H. K. Biswas, "A New Noise Estimation Technique of Speech Signal by Degree of Noise Refinement", International Journal of Computer Science and Information Security, Vol. 8, No. 8, pp. 37-43, USA, November 2010
5. **M. E. Hamid**, K. Ogawa and T. Fukabayashi, "Improved single-channel noise reduction method of speech by blind source separation", Acoust. Sci. & tech., Japan, Vol. 28, No. 3, pp. May 2007.
4. **M. E. Hamid**, and T. Fukabayashi, "A Two-Stage Method for Single-Channel Speech Enhancement", IEICE Trans. Fundamentals, vol.E89-A, no.4, pp. 1058-1068, Japan, April 2006.
3. **M. E. Hamid**, and T. Fukabayashi, "Noise reduction of speech signal using noise subtraction and blind source separation", published in the proc. of graduate school of electronic science and technology, Shizuoka university, pp. 31-37, 2006.
2. M. A Sobhan, K. J. A. Chisty, **M. E. Hamid** and S. A. Siddique, "Power spectra estimation of Bangla vowel and consonant phonemes", Rajshahi University studies, Part B, Journal of Science, vol. 23-24, pp. 19-30, 1995-96.
1. **M. E. Hamid**, S. A. Siddique, K. J. A. Chisty and M. A. Sobhan, "On the pitch determination of Bangla phonemes by cepstral analysis technique", Journal of the Bangladesh Electronics Society, vol. 4, no. 1, pp. 51-56, 1994.

#### National and International Meeting and Conferences

10. **M. E. Hamid**, "Estimation of Adaptation Factor for Adaptive Thresholding of EMD to Speech Enhancement", presented in the conference of the research day of King Khalid University, KKU, KSA, May 2011.
9. S. Das, **M. E. Hamid**, M. K. I. Molla and K. Hirose, "Weighted Noise Subtraction and Adaptive Soft-Thresholding Approach to Speech Enhancement", published in the proceedings of IEEE ISCAS conference, pp. 2413-2416, Brazil, May 2011. (peer reviewed)
8. M. Hasan, and **M. E. Hamid**, "A Parametric Formulation to Detect Speech Activity of Noisy Speech using EDON", in the Proceedings of IEEE 13<sup>th</sup> ICCIT conference, pp. 252-255, Dhaka, December 2010. (peer reviewed)
7. **M. E. Hamid**, K. Ogawa and T. Fukabayashi, "Noise estimation for speech enhancement by the estimated degree of noise without voice activity detection", in proc. IASTED international conference on speech and image processing SIP, pp. 420-424, Hawaii, 2006. (peer reviewed)
6. K. Ogawa, **M. E. Hamid**, and T. Fukabayashi, "Pitch extraction of speech from noise reduced autocorrelation function using estimated noise", published in the Proc. WESPAC IX, Seoul, June 2006.

5. **M. E. Hamid**, K. Ogawa and T. Fukabayashi, "Wide band noise reduction of speech using noise subtraction and blind source separation", published in the Proc. WESPAC IX, Seoul, June 2006.
4. **M. E. Hamid**, K. Ogawa and T. Fukabayashi, "Improvement of noise reduction of speech using blind signal separation", Proc. ASJ spring meeting, pp. 639-640, Tokyo, March 2006.
3. K. Ogawa, **M. E. Hamid** and T. Fukabayashi, "Pitch extraction of speech from noise-reduced autocorrelation function using estimated noise", Proc. Technical Report of IEICE, pp.25-30, Wakayama, January, 2006.
2. **M. E. Hamid**, K. Ogawa and T. Fukabayashi, "Performance of two-stage noise reduction method by iteration number of separation filter update in processing block", Proc. Technical Report of IEICE, pp.19-24, Wakayama, January, 2006.
1. **M. E. Hamid**, S. Saha, M. F. Hossain, M. A. Sobhan, "A study on web based garments management information system", in Proc. 5<sup>th</sup> ICCIT, pp. 570-575, Dhaka, 2002. (peer reviewed)