Z. M. Parvez Sazzad, PhD

M.Sc (DU), PhD (Japan), Post Doc (Japan, and France)

Professor, Dept. of Electrical and Electronic Engineering
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Education:

PhD: Department of Intellectual Information Systems Engineering, University of Toyama, Japan, Degree: March, 2008.

M.Sc: Department of Applied Physics, Electronics and Communication Engineering, University of Dhaka, Dhaka, Bangladesh, Position: First Class First Position, 1994 (Degree: April, 1998).

B.Sc (Hons.): Department of Applied Physics, Electronics and Communication Engineering, University of Dhaka, Dhaka, Bangladesh, Position: First Class Second Position, 1993 (Degree: March, 1996).

H.S.C: Govt. Jessore City College, Jessore, First Division, Jessore Board, 1990

S.S.C: Durgapur High School, Jhenaidah, First Division, Jessore Board, 1987

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Permanent address: House no. 10, Road no. 23, Kanchonpur, Jhenaidah-7300

Nationality: Bangladeshi

Date of Birth: 28-02-1973

Teaching Experiences:

Position	Department/ Institution	Duration/ Period
Professor	Dept. of Electrical and Electronic Engineering, University of Dhaka	Feb. 10, 2015 - till date
Associate Professor	Dept. of Electrical and Electronic Engineering, University of Dhaka	Nov. 01, 2010 - Feb. 09, 2015 (4 Years 3 Months 08 Days)
Assistant Professor	Dept. of Applied Physics, Electronics and Communication Engineering, University of Dhaka	Feb. 09, 2003 - Oct. 31, 2010 (7 Years 8 Months 22 Days)
Lecturer	Dept. of Applied Physics, Electronics and Communication Engineering, University of Dhaka	July, 01, 1999 - Feb. 08, 2003 (3 Years 7 Months 7 Days)
Lecturer	Dept. of Computer Science and Engineering, Darul Ihsan University, Dhanmondi, Dhaka	May, 02, 1998 - June. 30, 1999 (1 Year 2 Months)

Employment History:

- **Professor**, Department of Electrical and Electronic Engineering, University of Dhaka, Dhaka, Bangladesh, February 2015- on going.
- **Associate Professor**, Department of Electrical and Electronic Engineering, University of Dhaka, Dhaka, Bangladesh, May 2012- February 2015.
- **Visiting Researcher**, Signal and Image Communication Laboratory, University of Poitiers, France, July 2011 – April 2012 (Under CNRS).
  Project Title: Stereoscopic Video Quality Evaluation for 3D Mobile Applications.
- **Associate Professor**, Department of Applied Physics, Electronics and Communication Engineering, University of Dhaka, Dhaka, Bangladesh, November 2010- June 2011.
- **Assistant Professor**, Department of Applied Physics, Electronics and Communication Engineering, University of Dhaka, Dhaka, Bangladesh, February 2003- October 2010
- **Postdoctoral Researcher**, Venture Business Laboratory, University of Toyama, Japan, April 2008 – March 2010.
  Project Title: Presentation method of video content for improving the quality of experience and its measure.
- **Lecturer**, Department of Applied Physics, Electronics and Communication Engineering, University of Dhaka, Dhaka, Bangladesh, July 1999-February 2003.
- **Lecturer**, Department of Computer Science and Engineering, Darul Ihsan University, Dhaka, Bangladesh, May 1998-June 1999.
- **Research fellow** in Bosh centre of University of Dhaka, Dhaka, Bangladesh, April 1998-June 1998.

Research:
Area of interest:
- Image / Video quality
- Image/video Compression
- Image analysis & segmentation
- Motion Estimation
- Medical image processing
- Stereoscopic or multiview imaging
- Multimedia communication and broadcasting

List of Publications:

International and National Journal publications:

1. Iffat Alam, and **Z. M. Parvez Sazzad,** "Feature Based No-Reference Perceptual Depth Assessment Model for Mobile 3D Video Applications" Dhaka University Journal of Applied Science and Engineering (DUJASE), vol. 4(1), pp. 11-18, 2017 (January).

2. Iffat Alam, Mehnaz Tarannum, and **Z. M. Parvez Sazzad**, "Symmetric and Asymmetric Stereoscopic 3D Video Quality Assessment for Mobile Applications" Dhaka University Journal of Applied Science and Engineering (DUJASE), vol. 3(2), pp. 173-180, 2015 (January).

3. Munira Sultana, and **Z. M. Parvez Sazzad**, "Automatic Image Quality Evaluation Method for Efficient Usage of Storage for Media Content", Dhaka University Journal of Applied Science and Engineering (DUJASE), vol. 3(1), pp. 97-105, 2015 (January).

4. **Z. M. Parvez Sazzad**, "Continuous No Reference Stereoscopic Video Quality Prediction", Dhaka University Journal of Applied Science and Engineering (DUJASE), vol. 3(1), pp. 47-54, 2015 (January).

5. Hajera Siddiqa, and **Z. M. Parvez Sazzad**, "No Reference Viveo Quality Evaluation for Multimedia Applications", International Journal of Emerging Technologies in Computational and Applied Sciences, vol. 10, no. 1, pp. 94-100, 2014.

6. Md. Zakir Hossen, and **Z. M. Parvez Sazzad**, "No-reference blur evaluation method for images based on edge analysis and segmentation using Canny Edge Detector", International Journal of Emerging Technologies in Computational and Applied Sciences, vol. 10, no. 4, pp. 393-398, 2014.

7. **Z. M. Parvez Sazzad**, R. Sultana, H. Siddiqa, and M. Rani Dey, "Objective Image Quality Evaluation Model for JPEG2000 Coded Images Based on Edge Information Measures", Journal of Electrical and Electronic Engineering, 1(4): pp. 101-106, 2013.

8. Manika Rani Dey, Hajera Siddiqa, Rayeen Sultana, and **Z. M. Parvez Sazzad,** "No-Reference Perceptual Blockiness Estimation Method for JPEG Coded Images" International Journal of Emerging Technologies in Computational and Applied Sciences, vol. 4, no. 4, pp. 438-445, 2013.

9. M. M. Akram, Hajera Siddiqa, Rayeen Sultana, and **Z. M. Parvez Sazzad,** "Computational Model for Stereoscopic Image Quality Prediction" American Academic and Scholarly Research Journal, Vol. 5, No. 4, 2013.

10. **Z. M. Parvez Sazzad**, Roushain Akhter, J. Baltes, and Y. Horita, "Objective No-Reference Stereoscopic Image Quality Prediction Based on 2D Image Features and Relative Disparity" Advances in Multimedia, Vol. 2012, doi: 10.1155/2012/256130, 2012.

11. **Z. M. Parvez Sazzad**, Y. Kawayoke, and Y. Horita, "No Reference Image Quality Assessment for JPEG2000 based on Spatial features" ELSEVIER   Signal processing: Image Communication, Vol. 23, Issue 4, pp. 257-268, 2008.

12. **Z. M. Parvez Sazzad**, and Y. Horita, "Local Region-based Image Quality assessment independent of JPEG and JPEG2000 Coded Color Images" Journal of Electronic Imaging, Vol. 17, Issue 3, pp. 033002-033018, 2008.

13. **Z. M. Parvez Sazzad**, Y. Kawayoke, and Y. Horita, "No-Reference Image Quality Evaluation Model for JPEG and JPEG2000 Images", The Institute of Electrical Engineering of Japan (IEEJ) Trans. on Electrical and Electronics Engineering, Vol. 3, Issue 3, pp.352-359, 2008.

14. **Z. M. Parvez Sazzad**, Masaharu Sato, Yoshikazu Kawayoke, and Yuukou Horita, "No-Reference Image Quality Evaluation Based on Local Features and Segmentation", The Journal of the Institute of Image Electronics Engineers of Japan(IIEEJ), Vol. 37, No. 3, pp. 335-345, 2008.

15. Kalam Shemin Hasna, M. S. Alam, **Z. M. Parvez Sazzad**, A. H. M. Asadul Huq and F. Ahmed, " Noise performance analysis of variable step size lest mean square algorithm in adaptive noise cancellation", The Dhaka University Journal of Science, Vol. 52(2): pp. 1-9, 2004.

16. **Z. M. Parvez Sazzad**, M. S. Alam, A. S. M. Moslehuddin, A.H. M. Asadul Huq and F. Ahmed, " Design of Digital FIR filters by employing optimal method", The Dhaka University Journal of Science, Vol. 51(1): pp. 7-13, 2003.

17. Sazia Afreen, **Z. M. Parvez Sazzad**, M. S. Alam, A. H. M. Asadul Huq and F. Ahmed, " Effects of the step size, the number of taps and samples on the Adaptive noise canceller in speech processing applications", The Dhaka University Journal of Science, Vol. 50(2): pp. 123-131, 2002.

18. Huq M. Saiful, Shahnoor Shanta, M. S. Alam, **Z. M. Parvez Sazzad**, A. H. M. Asadul Huq and F. Ahmed., "Avoiding the necessity of window function in nonparametric spectrum analysis without sacrificing the performance," The Dhaka University Journal of Science, Vol. 48(2): pp. 111-117., 2000.

19. **Z. M. Parvez Sazzad**, M. S. Alam, A. S. M. Moslehuddin and F. Ahmed, "Design aspects of window-based digital FIR filters", The Dhaka University Journal of Science, Vol. 47(1): pp. 5-13., 1999.

International and National Conference Proceedings

1. M. M. Akram, H. Siddiqa and **Z. M. Parvez Sazzad**, "Structural Similarity Based Disparity Estimation for Stereoscopic Images" in Proc. IEEE ICCIT, Khulna, Bangladesh, March 08-10, 2014.

2. **Z. M. Parvez Sazzad**, Rafik Bensalma, and Chaker Larabi, **"**Feature Based No-Reference Continuous Video Quality Prediction Model for Coded Stereo Video" in Proc CGIV, Amsterdam, Netherlands, May 6-9, 2012.

3. **Z. M. Parvez Sazzad**, S. Yamanaka, and Y. Horita, "Spatio-Temporal Segmentation Based Continuous No-Reference Stereoscopic Video Quality Prediction", in Proc IEEE QoMEX, Trondheim, Norway, June 21-23, 2010.

4. S. Yamanaka, **Z. M. Parvez Sazzad**, M. Sato, K. Shibata, Y. Inazumi, and Y. Horita, "No-reference picture quality assessment model for stereoscopic still images using pseudo distortion information of disparity", in Proc. IEVC, Nice, France, March 5-7, 2010.

5. **Z. M. Parvez Sazzad**, S. Yamanaka, and Y. Horita, "Continuous stereoscopic video quality evaluation", in Proc. IS&T / SPIE, Electronic Imaging, San Jose, California, USA, January 17-21, 2010.

6. Roushain Akhter, **Z. M. Parvez Sazzad**, Y. Horita and J. Baltes, "No reference stereoscopic image quality assessment", in Proc. IS&T / SPIE, Electronic Imaging, San Jose, California, USA, January 17-21, 2010.

7. **Z. M. Parvez Sazzad**, S. Yamanaka, Y. Kawayoke, and Y. Horita, "Stereoscopic Image quality prediction", In Proc. IEEE QoMEX, California, USA, July 29-31, 2009.

8. Sylvain Tourancheau, Florent Autrusseau, **Z. M. Parvez Sazzad** and Yuukou Horita, "Impact of Subjective dataset on the performance of Image quality metrics" In Proc. IEEE ICIP, California, USA, Oct. 12-15, 2008.

9. **Z. M. Parvez Sazzad**, Y. Kawayoke, and Y. Horita, "Spatial Features Based No Reference Image Quality Assessment for JPEG2000", In Proc. IEEE ICIP, Texas, USA, Sept. 16-19, 2007.

10. Y. Horita, **Z. M. Parvez Sazzad**, M. Sato, and Y. Kawayoke, "Objective Image Quality Assessment Based on Local Features and Segmentation: JPEG", in Proc. IEVC, Cairns Queensland, Australia, Nov. 25-27, 2007.

11. **Z. M. Parvez Sazzad**, Yoshikazu Kawayoke, and Y. Horita, "Spatial Features Based Image Quality Assessment for JPEG2000", Proceeding of the Second International Workshop on Image Quality and its applications (IMQA 2007), Chiba, Japan, March. 9-10, 2007.

12. Sato Masaharu, **Sazzad Z. M. Parvez**, Shibata Keiji, and Horita Yuukou, "Quality evaluation using local feature of still picture", In Proc IEICE, Tokyo, Japan, March 24-27, 2006 (in Japanese).

13. Y. Hayashi, **Z. M. Parvez Sazzad**, K. Shibata, and Y. Horita, "NR image quality evaluation model for JPEG2000 coded image using information between adjacent pixels", Joint conference of Hokuriku chapters of Electrical societies, Ishikawa, Japan, Sept. 16-17, 2006 (in Japanese).

14. Y. Horita, Masaharu Sato, Yoshikazu Kawayoke, **Z. M. Parvez Sazzad**, and Keiji Shibata**, "**Image Quality Evaluation Model based on Local Features and Segmentation", In Proc. IEEE ICIP, Atlanta, USA, Oct. 8-11, 2006.

15. Y. Horita, Masaharu Sato, Yoshikazu Kawayoke, **Z. M. Parvez Sazzad**, and Keiji Shibata**, "**Quality Evaluation Model Using Local Features of Still Picture", In Proc. EUSIPCO, Florence, Italy, Sept. 4-8, 2006

16. **Z. M. Parvez Sazzad**, and Y. Horita, "Image quality assessment models for JPEG and JPEG2000 compressed color images", in proceeding of 3rd European Conference on Colour in Graphics, Imaging, and Vision (CGIV 2006), Leeds, UK, June 19-22, 2006.

17. **Z. M. Parvez Sazzad**, and Y. Horita, "Objective image quality assessment for JPEG and JPEG2000", Proceeding of the International Workshop on Advanced Image Technology (IWAIT 2006), Okinawa, Japan, Jan. 9-10, 2006.

18. **Z. M. Parvez Sazzad**, H. Matsumoto, and Y. Horita, "Subjective Video Quality Analysis of H.264 coder and Full reference video quality assessment for Multimedia Applications", Proceeding of the first International Workshop on Image Quality and its applications (IMQA 2005), Nagoya, Japan, Sept. 5-6, 2005.

19. Sazia Afreen, **Z. M. Parvez Sazzad**, M. S. Alam, A. H. M. Asadul Huq and F. Ahmed, " Effects of Iteration step size and the number of taps on the performance of Adaptive FIR filter applications", in Proc. ICCIT, NSU, Dhaka, 25-26 January, 2001, Bangladesh.

20. Rezeeb K. M., M. S. Alam, **Z. M. Parvez Sazzad**, A. H. M. Asadul Huq and F. Ahmed, "Design and use of FIR filters for processing of images", in Proc. ICCIT, NSU, Dhaka, 25-26 January, 2001, Bangladesh.

21. Huq, M. S., Shanta, S., **Sazzad, Z. M. P.**, Ahmed, F., Huq, A. H. M. Asadul, "Nonparametric spectrum estimation without any window function: An attempt to Reduce the Spectral leakage" in Proc. ICCIT, Sylhet, Bangladesh, December 1999.

Technical Reports:
1. **Z. M. Parvez Sazzad,** and Y. Horita, "Spatial Features Based No Reference Image Quality Assessment Independent of JPEG and JPEG2000 Color Image", ITE Technical Report, ME2006-263, vol.30, no.68, pp.39-42, Japan, Dec. 2006.

Awards
- Monbukagusho award under Government of Japan to do PhD in University of Toyama, Japan, October 2004.
- Bosh centre fellowship, University of Dhaka, 1998.
- Academic award for M.Sc. result from University of Dhaka, 1998.
- Academic award for B.Sc. (Hons) result from University of Dhaka, 1996.

- Travel Grant Award from Advanced Telecommunication foundation of Japan for PhD student, 2007.
- Travel Grant Award from Advanced Telecommunication foundation of Japan for researcher, 2009.

Professional activity/membership
- Member of Electronic Society, Bangladesh.
- Associate member of Computer Society, Bangladesh.
- Member of VQEG Expert Group.
- Reviewer, IEEE Trans. on Image processing
- Reviewer, IEICE Trans. on Fundamentals of Electronics, Communications and Computer Sciences.
- Reviewer, ELSEVIER Signal processing: Image communication
- Editorial board member
  - Journal of Electrical and Electronic Engineering
  - Science Journal of Circuits, Systems and Signal Processing
  - International Journal of Medical Imaging

Computer skills
- Programming Languages: C, C++, PASCAL, SIMULINK, and Matlab,
- Office Tools: MS office 2013 (Word, Excel, Access, Power point)
- Operating System: Windows

Google scholar citations: https://scholar.google.com/citations?user=keje35AAAAAJ&hl=en

Researchgate citations: https://www.researchgate.net/profile/Z_M_Parvez_Sazzad

References:

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April, 10.04.2019