

CV of Md Atiqur Rahman Ahad, Ph.D., *Senior Member, IEEE*

Professor
Department of Electrical and Electronic Engineering
University of Dhaka
Dhaka - 1000, Bangladesh
Specially Appointed Associate Professor
Osaka University
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OBJECTIVE

To culture the innovative minds and to learn - for a better World!

EDUCATION

Ph.D., Faculty of Engineering
Kyushu Institute of Technology, Kitakyushu, Japan September 2009

Master in Computer Science, School of Computer Science & Engineering
University of New South Wales, Sydney, NSW, Australia June 2004

Master of Science, Dept. of Applied Physics & Electronics (currently, Dept. of Electrical & Electronic Engineering)
1st class (**2nd position**)
University of Dhaka, Dhaka, Bangladesh September 2000

Bachelor of Science (Honors), Dept. of Applied Physics & Electronics (currently, Dept. of Electrical & Electronic Engineering)
1st class (**1st position**)
University of Dhaka, Dhaka, Bangladesh September 1997

H.S.C., Science Group (1st class, Star marks)
Notre Dame College, Dhaka, Bangladesh 1993

S.S.C., Science Group (1st class, Star marks)
Motijheel Model High School, Dhaka, Bangladesh 1991

WORK EXPERIENCE

Specially Appointed Associate Professor, Osaka University May 2018 – till-to-date
Dept. of Media Intelligent, Institute of Scientific and Industrial Research

- Research
- Supervising PhD and Masters students for research
- Various academic activities

Professor, University of Dhaka 22 March 2018 – till-to-date (on-leave now)
Dept. of Electrical & Electronic Engineering

- Research
- Teaching courses

- Supervising PhD, Masters and Bachelor (4th year) students for research
- Various academic activities

Associate Professor, University of Dhaka 25 Feb. 2014 – 21 March 2018
Dept. of Electrical & Electronic Engineering

- Teaching courses
- Supervising PhD, Masters and Bachelor (4th year) students for research
- Various academic activities

Assistant House Tutor July 2014 – till-to-date
Bijoy Ekattor Hall (Student dormitory with 2000 capacity), University of Dhaka, BD

Visiting Researcher 1 Dec. 2011 – 31 Mar. 2012
Kyushu Institute of Technology, Japan

JSPS Postdoctoral Fellowship (2 years) 18 Nov. 2009 – 30 Nov. 2011
Japan Society for Promotion of Science (JSPS), Kyushu Institute of Technology, Japan

- Research activities
- Research fund

Assistant Professor, University of Dhaka 5 Nov. 2009 – 24 Feb. 2014
Dept. of Electrical & Electronic Engineering (former Dept. of Applied Physics, Electronics & Communication Engineering)

- Teaching courses
- Supervising Masters and Bachelor (4th year) students for research
- Various academic activities

Internship Dec. 2007 – Feb. 2008
Nikon Corporation, Tokyo Head Quarter, Japan

Teaching Assistant Winter Semester 2007
Kyushu Institute of Technology, Japan

Lecturer, University of Dhaka (1st Joining: 2 May 2001 – 14 Jan. 2002. 2nd Joining: 29 Aug. 2004 – 4 Nov. 2009)

Dept. of Electrical & Electronic Engineering (former Dept. of Applied Physics & Electronics)

- Teaching courses
- Supervising Masters and Bachelor (4th year) students for research
- Various academic activities

Academic (Casual) 3 Semesters during 2002, 2003 & 2004
School of Computer Science and Engineering, University of New South Wales, Sydney, Australia

PUBLICATIONS

BOOK / BOOK CHAPTERS

1. Md Atiqur Rahman Ahad, Anindya Das Antar, and Masud Ahmed, "IoT Sensor-Based Activity Recognition – Human Activity Recognition," Springer Nature Switzerland AG, in press, 2019.
2. Md Atiqur Rahman Ahad and Mosabber Uddin Ahmed "Signal Processing Techniques for Computational Health Informatics," Edited Book, Springer Nature Switzerland AG [to appear in 2019].

3. Md Atiqur Rahman Ahad and Atsushi Inoue, "Vision, Sensing and Analytics: Integrative Approaches," Edited Book, Springer Nature Switzerland AG [to appear in 2020].
4. Md Atiqur Rahman Ahad, Upal Mahbub, and Tauhidur Rahman, "Contactless Human Activity Analysis," Edited Book, Springer Nature Switzerland AG [to appear in 2020].
5. V.E. Balas, V.K. Solanki, R. Kumar, and MAR Ahad, "A Handbook of Internet of Things in Biomedical and Cyber Physical Systems," Edited Book, ISBN 978-3-030-23982-4, Springer Nature Switzerland AG, 2019.
6. Md Atiqur Rahman Ahad, "Vision and Sensor based Human Activity Recognition: Challenges Ahead," in "Advancements in Instrumentation and Control in Applied System Applications," IGI Global, 2019.
7. Mehedi Hasan Raju, Mosabber Uddin Ahmed, and MAR Ahad, "Security Analysis and a Potential Layer to Layer Security Solution of Medical Cyber-Physical Systems", in "A Handbook of Internet of Things in Biomedical and Cyber Physical Systems," ISBN 978-3-030-23982-4, Springer Nature Switzerland AG, 2019.
8. Md. Atiqur Rahman Ahad, "Chapter 11: Biggan Shikhhha o Dhaka Biswabiddalaya: Bartaman o Bhoishhatt (Science Education and the University of Dhaka: Present and Future)," Bengali Edited Volume: "Dhaka University: Creation, Recreation and Way Forward (:)", Edited by Imtiaz Ahmed Iftekhar Iqbal, Published by Prothoma Prokashon, ISBN 978 984 93001 3 7, pp. 249-274, 2017.
9. Md. Atiqur Rahman Ahad, "Chapter 1: Introduction," Name of the book: "Motion History Images for Action Recognition and Understanding," Publisher: Springer, ISBN 978-1-4471-4730-5, pp. 1–18, 2013.
10. Md. Atiqur Rahman Ahad, "Chapter 2: Action Representation," Name of the book: "Motion History Images for Action Recognition and Understanding," Publisher: Springer, ISBN 978-1-4471-4730-5, pp. 19–29, 2013.
11. Md. Atiqur Rahman Ahad, "Chapter 3: Motion History Image," Name of the book: "Motion History Images for Action Recognition and Understanding," Publisher: Springer, ISBN 978-1-4471-4730-5, pp. 31–76, 2013.
12. Md. Atiqur Rahman Ahad, "Chapter 4: Action Datasets and MHI," Name of the book: "Motion History Images for Action Recognition and Understanding," Publisher: Springer, ISBN 978-1-4471-4730-5, pp. 77–85, 2013.
13. Md. Atiqur Rahman Ahad, "Chapter 1: Introduction," Name of the book: "Computer Vision and Action Recognition: A Guide for Image Processing and Computer Vision Community for Action Understanding," Publisher: Atlantis Press, Available in: Springer, ISBN 978-94-91216-20-6, pp. 1–8, 2011.
14. Md. Atiqur Rahman Ahad, "Chapter 2: Low-level Image Processing for Action Representations," Name of the book: "Computer Vision and Action Recognition: A Guide for Image Processing and Computer Vision Community for Action Understanding," Publisher: Atlantis Press, Available in: Springer, ISBN 978-94-91216-20-6, pp. 9–37, 2011.
15. Md. Atiqur Rahman Ahad, "Chapter 3: Action Representation Approaches," Name of the book: "Computer Vision and Action Recognition: A Guide for Image Processing and Computer Vision Community for Action Understanding," Publisher: Atlantis Press, Available in: Springer, ISBN 978-94-91216-20-6, pp. 39–76, 2011.
16. Md. Atiqur Rahman Ahad, "Chapter 4: MHI: A Global-based Generic Approach," Name of the book: "Computer Vision and Action Recognition: A Guide for Image Processing and Computer Vision Community for Action Understanding," Publisher: Atlantis Press, Available in: Springer, ISBN 978-94-91216-20-6, pp. 77–113, 2011.
17. Md. Atiqur Rahman Ahad, "Chapter 5: Shape Representation and Feature Vector Analysis," Name of the book: "Computer Vision and Action Recognition: A Guide for Image Processing and Computer Vision Community for Action Understanding," Publisher: Atlantis Press, Available in: Springer, ISBN 978-94-91216-20-6, pp. 115–145, 2011.
18. Md. Atiqur Rahman Ahad, "Chapter 6: Action Datasets," Name of the book: "Computer Vision and Action Recognition: A Guide for Image Processing and Computer Vision Community for Action Understanding," Publisher: Atlantis Press, Available in: Springer, ISBN 978-94-91216-20-6, pp. 147–172, 2011.

19. Md. Atiqur Rahman Ahad, "Chapter 7: Challenges Ahead," Name of the book: "Computer Vision and Action Recognition: A Guide for Image Processing and Computer Vision Community for Action Understanding," Publisher: Atlantis Press, Available in: Springer, ISBN 978-94-91216-20-6, pp. 173–182, 2011.
20. Book Chapter: "Image Analysis - From Theory to Applications," Editors: Reneta P. Barneva and Valentin E. Brimkov, Publisher: Research Publishing Services, ISBN: 978-981-08-0228-8, 2008.

JOURNALS

1. Md. Zasim Uddin, D Muramatsu, T Noriko, Md Atiqur Rahman Ahad, and Y Yagi, "Spatio-temporal silhouette sequence reconstruction for gait recognition against occlusion", *IPSN Transactions on Computer Vision and Applications*, Springer, 2019. [SCOPUS indexed]
2. Arafat Islam, Naimur Rahaman, and Md Atiqur Rahman Ahad, "A Study on Tiredness Assessment by Using Eye Blink Detection", *Journal of Engineering*, 31(2), 209-214, 2019. [Emerging SCI indexed]
3. Md Atiqur Rahman Ahad, Rifat Reza, and Mosabber Uddin Ahmed, "A Study on Computer-Aided Diagnosis of Alzheimer's Disease from the Ventricular Enlargement using S-MRI Data", *International Journal of Biomedical Soft Computing and Human Sciences*, Vol. 24, No. 2, 2019.
4. Md. Moin Uddin Atique, Md. Rafiqul Islam Sarker, and Md Atiqur Rahman Ahad, "Development of an 8DOF Quadruped Robot and Implementation of Inverse Kinematics using Denavit-Hartenberg Convention", Vol. 4, Issue 12, pp. 1-19, *Heliyon*, Elsevier, 2018. [Indexed by PubMed, SCOPUS, Emerging SCI]
5. SS Saha, S Rahman, MJ Rasna, TB Zahid, AKMM Islam, and Md Atiqur Rahman Ahad, "Feature Extraction, Performance Analysis and System Design using the DU Mobility Dataset", *IEEE Access*, IEEE, 2018. [Indexed by SCI, SCOPUS]
6. Md. Alomgeer Hussein, Md. Talal Bin Noman, and Md Atiqur Rahman Ahad, "A Study on Tiredness Measurement using Computer Vision", accepted for publication, *Journal of the Institute of Industrial Applications Engineers*, Japan, 2018.
7. Ferdous Ali Israt, Mostafa Zaman, Mosabber Uddin Ahmed, Syoji Kobashi, and Md Atiqur Rahman Ahad, "A Study on Human Action Recognition based on a modified-MHI", *International Journal of Biomedical Soft Computing and Human Sciences*, Vol 23, No. 1, pp. 1-13, Japan, 2018.
8. Tanmoy Paul, Ummul Afia Shammi, Mosabber Uddin Ahmed, Rashedur Rahman, Syoji Kobashi, and Md Atiqur Rahman Ahad, "A Study on Face Detection Using Viola-Jones Algorithm for Various Backgrounds, Angels and Distances", *International Journal of Biomedical Soft Computing and Human Sciences*, Vol 23, No. 1, Japan, 2018.
9. Md. Talal Bin Noman and Md Atiqur Rahman Ahad, "Mobile-based Eye-Blink Detection Performance Analysis on Android Platform", *Frontiers ICT - Human-Media Interaction*, 5(4), DOI: 10.3389/fict.2018.00004, Switzerland, 2018. [Indexed by SCOPUS]
10. MAR Ahad, S Kobashi, and JMRS Tavares, "Advancements of Image Processing and Vision in Healthcare", *Journal of Healthcare Engineering*, Hindawi, Vol. 2018, Article ID 8458024, 2018. [Indexed by SCIE, SCOPUS]
11. Nazmus Sakib and Md Atiqur Rahman Ahad, "An Optimized Structure for Enhancing Optical Absorption of Solar Energy in Elliptical GaAs Nanowire Array Solar Cell", *UKM Engineering Journal (JURNAL KEJURUTERAAN)*, 30(1), pp. 1-6, DOI : dx.doi.org/10.17576/jkukm-2018-30(1)-01, 2018. [Indexed by Emerging SCI]
12. Syed Mahir Tazwar, Zishan Zahidul Islam, Md. Zahidul Islam, and Md. Atiqur Rahman Ahad, "A Study on Sensor-based Human Activity Analysis", *IUB Journal of Engineering and Computer Science*, Vol. 2, No. 1-2, 2017.
13. Tanmoy Paul, Ummul Afia Shammi, Seiichi Serikawa, and Md. Atiqur Rahman Ahad, "A Study on Recognition of Two-Person Interactions Based on Concatenated History Images", *Journal of the Institute of Industrial Applications Engineers*, Vol.5, No.2, pp.71–78, 2017.

14. Md Ismail Hossain Raju, Sharmeen Sultana Ananna, Syed Shafiu Islam Meraz, Md. Zakaria Azam, Seiichi Serikawa, and Md. Atiqur Rahman Ahad, "Human Action Recognition: A Template Matching-based Approach", *Journal of the Institute of Industrial Applications Engineers*. Vol.5, No.1, pp.15-23, 2017.
15. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Activity Representation by SURF-based Templates", *Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization*, Taylor & Francis, pp. 1–11, 2017. [Indexed by Emerging SCI, SCOPUS]
16. Fahad Parvez Mahdi, MM Habib, M Ahad, S. Mckeever, ASM Moslehuddin, P. Vasant, "Face Recognition-based Real Time System for Surveillance", *Intelligent Decision Technologies*, IOS Press, Vol. 11, No. 1, pp. 79–92, 2017. [Indexed by Emerging SCI, SCOPUS]
17. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "A Simple Approach for Low-Resolution Activity Recognition", *Int. Journal for Computational Vision and Biomechanics (IJCVB)*, Vol. 3, No. 1, pp. 17–24, Jan.-June 2017.
18. Syoji Kobashi, Md. Atiqur Rahman Ahad, Namkug Kim, Yubing Tong, and Naomi Yagi, "Soft Computing in Medical Informatics", *International Journal of Innovative Computing, Information and Control*, Vol. 12, No. 4, pp. 1351–1352, 2016. [Indexed by Emerging SCI, SCOPUS]
19. Md. Atiqur Rahman Ahad, Md. Nazmul Islam, Israt Jahan, "Action recognition based on binary patterns of action-history and histogram of oriented gradient", *Journal on Multimodal User Interfaces*, Springer, Vol. 10, No. 4, pp. 335–344, 2016. [Indexed by SCI, SCOPUS]
20. H Imtiaz, U Mahbub, and M Ahad, "Action Recognition by Exploiting Wavelet Features", *International Journal of Intelligent Computing in Medical Sciences & Image Processing*, Taylor & Francis, Vol. 6, pp. 79–91, 2015.
21. RM Mueid, C Ahmed, and M Ahad, "Pedestrian Activity Classification Using Patterns of Motion and Histogram of Oriented Gradient", *Journal on Multimodal User Interfaces*, Springer, pp. 1–7, 2015. [Indexed by SCI, SCOPUS]
22. H Imtiaz, U Mahbub, G Schaefer, Shao Ying Zhu, and Md. Atiqur Rahman Ahad, "Human Action Recognition based on Spectral Domain Features", *Procedia Computer Science*, Elsevier, Vol. 60, pp. 430–437, 2015. [Indexed by SCOPUS]
23. U Mahbub, H Imtiaz, and M Ahad, "Action recognition based on statistical analysis from clustered flow vectors", *Signal, Image and Video Processing*, Springer, Vol. 8, No. 2, pp. 243–253, 2014. [Indexed by SCI, SCOPUS]
24. M Ahad, "Smart Approaches for Human Action Recognition", *Pattern Recognition Letters*, Elsevier, Vol. 34, No. 15, pp. 1769–1770, 2013. [Indexed by SCI, SCOPUS]
25. M Ahad, "Gait analysis: an energy image-based approach", *International Journal of Intelligent Computing in Medical Sciences & Image Processing*, Taylor & Francis, Vol. 5, No. 1, pp. 81–91, 2013.
26. U Mahbub, H Imtiaz, T Roy, Md. Shafiu Rahman, and M Ahad, "A template matching approach of one-shot-learning gesture recognition", *Pattern Recognition Letters*, Elsevier, Vol. 34, No. 15, pp. 1780–1788, 2013. [Indexed by SCI, SCOPUS]
27. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Motion History Image: Its Variants and Applications", *Machine Vision and Applications*, Springer, Vol. 23, No. 2, pp. 255–281, 2012. [Indexed by SCI, SCOPUS]
28. Md. Ahad, "A Novel Randomized Quicksort with a Random Number Generator", *Journal of Information Technology and Applications*, Vol. 6, No. 1, pp. 13–17, 2012.
29. Md. Ahad, "Hu Moment-based Reduced Feature Vector Analysis for Recognition", *DU Journal of Science*, 2011.
30. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Lower-Dimensional Feature Sets for Template-based Motion Recognition Approaches", *Journal of Computer Science*, Science Publication, Vol. 6, No. 8, pp. 920–927, 2010. [Indexed by SCOPUS]
31. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Analysis of Motion Self-Occlusion Problem for Human Activity Recognition", *Journal of Multimedia*, Academy Publisher, Vol. 5, No. 1, pp. 36–46, Feb. 2010.
32. Y. Nishina, Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "A Robust Face Tracking Method Employing Color-based Particle Filter", *Int. J. of Biomedical Soft Computing and Human Sciences*, Vol. 16, No. 1, pp. 127-134, 2010.

33. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Temporal Motion Recognition and Segmentation Approach", *Int. J. of Imaging Systems and Technology (IJIST)*, Wiley Publications, Vol. 19, No. 2, pp. 91-99, 2009. [Indexed by SCI, SCOPUS]
34. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "A Complex Motion Recognition Technique Employing Directional Motion Templates", *Int. J. of Innovative Computing, Information & Control (IJICIC)*, Vol. 4, No. 8, pp. 1943-1954, 2008. [Indexed by Emerging SCI, SCOPUS]
35. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "View-based Human Motion Recognition in the Presence of Outliers", *Int. Journal of Biomedical Soft Computing and Human Sciences*, Vol. 13, No. 1, pp. 71-78, 2008. **(Achieved the Best Paper Award)**
36. M. Ahad, S. Hossain, "Route Optimization Technique for Network Mobility (NEMO)", *Dhaka University Journal of Science*, Vol. 55, No. 2, pp. 277-279, July 2007.
37. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "A DMHI Technique for Human Motion Separation and Recognition", *IPSJ SIG Technical Reports*, 2007-AVM-58, Information Processing Society Japan (IPSJ), pp. 55-60, Sept. 2007.
38. M. Ahad, "Optical Interconnection for Digital Systems", *Journal of Electronics and Computer Science*, Vol. 3, pp. 23-28, June 2002.
39. M. Ahad, "Use of Photo Voltaic Technique in Rural Electrification: Present Scenario", *Journal of Electronics and Computer Science*, Vol. 3, pp. 1-6, June, 2002.
40. M. Ahad, ZH Mahmood, "Study on the Facet Reflectivity of Fabry-Perot Resonator for Optical Communication", *Dhaka University Journal of Science*, Vol. 49, No. 2, pp. 111-115, July 2001.
41. M.T. Islam, M. Ahad, "An Approach to Solve Real-time Problem Applying Semaphore", *Dhaka University Journal of Science*, Vol. 49, No. 2, pp. 117-121, July 2001.
42. M. Ahad, ZH Mahmood, "A Model to Study the Mirror Reflectance of an Optical Resonator", *Bangladesh Journal of Science and Technology*, 2001. (Ref. No. BJST/ED/180/2000)
43. M. Ahad, ZH Mahmood, "Laser having Wavelength of 1.3 and 1.55 micrometer for Optical Fiber Communication", *Bangladesh Journal of Scientific Research*, 2001. (Ref. No. BJSR/ED/04/2001)

EDITED PROCEEDINGS

1. Proceedings of Joint 2019 8th International Conference on Informatics, Electronics Vision (ICIEV) 3rd International Conference on Imaging, Vision Pattern Recognition (IVPR), USA, IEEE, 2019.
2. Proceedings of 2018 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2018), Japan, IEEE, 2018.
3. 3rd Student Conference on Science Engineering, Bangladesh, 2018.
4. Proceedings of Joint 2018 7th International Conference on Informatics, Electronics Vision (ICIEV) 2nd International Conference on Imaging, Vision Pattern Recognition (icIVPR), Japan, IEEE, 2018.
5. Proceedings of Joint 2017 6th International Conference on Informatics, Electronics Vision (ICIEV) 7th International Symposium in Computational Medical and Health Technology (ISCMHT), Japan, IEEE, 2017.
6. Proceedings of Joint 17th World Congress of International Fuzzy Systems Association (IFSA) and 9th International Conference on Soft Computing and Intelligent Systems, 2017.
7. Proceedings of IEEE 2017 International Conference on Imaging, Vision Pattern Recognition, Bangladesh, IEEE, 2017.
8. 2nd Student Conference on Science Engineering, Bangladesh, 2016.
9. Proceedings of 2016 5th International Conference on Informatics, Electronics Vision, Bangladesh, IEEE, 2016.
10. 1st Student Conference on Science Engineering, Bangladesh, 2015.
11. Proceedings of 2015 4th International Conference on Informatics, Electronics Vision, Japan, IEEE, 2015.
12. Proceedings of 3rd International Conference on Green Energy Technology, Bangladesh, IEEE, 2015.
13. Proceedings of 2014 3rd International Conference on Informatics, Electronics Vision, Bangladesh, IEEE, 2014.

14. Proceedings of 5th International Conference on Environmental Aspects of Bangladesh, Bangladesh, 2014.
15. Proceedings of 2nd International Conference on Green Energy Technology, Bangladesh, IEEE, 2014.
16. Proceedings of Joint 4th International Conference on Environmental Aspects of Bangladesh; and International Conference on Green Energy and Technology, Japan, 2013.
17. Proceedings of 2013 2nd International Conference on Informatics, Electronics Vision, Bangladesh, IEEE, 2013.
18. Proceedings of 3rd International Conference on Environmental Aspects of Bangladesh, Japan, 2012.
19. Proceedings of 2012 International Conference on Informatics, Electronics Vision, Bangladesh, IEEE, 2012.
20. Proceedings of 2nd International Conference on Environmental Aspects of Bangladesh, Japan, 2011.
21. Proceedings of 1st International Conference on Environmental Aspects of Bangladesh, Japan, 2010.

PROCEEDINGS

1. Masud Ahmed, Anindya Das Antar, Tahera Hossain, Sozo Inoue, and Md Atiqur Rahman Ahad, "POIDEN: Position and Orientation Independent Deep Ensemble Network for the Classification of Locomotion and Transportation Modes", ACM UbiComp/ISWC Adjunct, UK, 2019.
2. Swapnil Sayan Saha, Shafizur Rahman, Zarin Rezwana Ridita Haque, Tahera Hossain, Sozo Inoue, and Md Atiqur Rahman Ahad, "Position Independent Activity Recognition Using Shallow Neural Architecture and Empirical Modeling", ACM UbiComp/ISWC Adjunct, UK, 2019.
3. Tahera Hossain, Md Shafiqul Islam, Md Atiqur Rahman Ahad, and Sozo Inoue, "Human Activity Recognition using Earable Device", ACM UbiComp/ISWC Adjunct, UK, 2019.
4. A. Elkholy, Y. Makihara, W. Gomaa, Md Atiqur Rahman Ahad, Y. Yagi, "Unsupervised GEI-Based Gait Disorders Detection From Different Views", 41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'19), Germany, 2019.
5. Md Atiqur Rahman Ahad, Anindya Das Antar, and Omar Shahid, "Vision-based Action Understanding for Assistive Healthcare: A Short Review", The IEEE Conference on Computer Vision and Pattern Recognition (CVPR) Workshops, USA, pp. 1-11, 2019.
6. Thanh Trung Ngo, Md Atiqur Rahman Ahad, Anindya Das Antar, Masud Ahmed, Daigo Muramatsu, Yasushi Makihara, Yasushi Yagi, Sozo Inoue, Tahera Hossain, Yuichi Hattori, "OU-ISIR Wearable Sensor-based Gait Challenge: Age and Gender", 12th IAPR Intl. Conf. on Biometrics (ICB), Greece, 2019.
7. Masud Ahmed, Anindya Das Antar, and Md. Atiqur Rahman Ahad, "An Approach to Classify Human Activities in Real-time from Smartphone Sensor Data", Intl. Conf. on Activity and Behavior Computing (ABC), 2019.
8. Anindya Das Antar, Masud Ahmed, and Md Atiqur Rahman Ahad, "Challenges in Sensor-based Human Activity Recognition and a Comparative Analysis of Benchmark Datasets: A Review", Intl. Conf. on Activity and Behavior Computing (ABC), 2019.
9. Walid B. Habib, Tasnova E. Bipasha, and Md Atiqur Rahman Ahad, "Prospects of Solar Home Systems in Developing Countries", Student Conference on Electronics, Informatics Vision (SCIEV), USA, 2019.
10. M Ahad and Talal bin Noman, "Eye-Blink Detection on Mobile Phone", International Workshop on Robust Computer Vision 2019 (IWRCV2019), China, 2019.
11. Tahera Hossain, MAR Ahad, T Tazin, and S Inoue, "Activity Recognition by using LoRaWAN Sensor", 2018 ACM International Joint Conference on Pervasive and Ubiquitous Computing and the 2018 International Symposium on Wearable Computers (UbiComp/ISWC), Singapore, 2018. (**Achieved Best Poster Paper Award**).
12. Anindya Das Antar, Masud Ahmed, Mohammad Shadman Ishrak, and MAR Ahad, "A Comparative Approach to Classification of Locomotion and Transportation Modes Using Smartphone Sensor Data", 2018 ACM International Joint Conference on Pervasive and Ubiquitous Computing and the 2018 International Symposium on Wearable Computers (UbiComp/ISWC), Singapore, 2018. (**Achieved Award in the Sussex-Huawei Locomotion (SHL) Challenge**).

13. SS Sha, Shafizur Rahman, MJ Rasna, T Hossain, S Inoue, and MAR Ahad, "Supervised and Neural Classifiers for Locomotion Analysis", 2018 ACM International Joint Conference on Pervasive and Ubiquitous Computing and the 2018 International Symposium on Wearable Computers (UbiComp/ISWC), Singapore, 2018.
14. Tahera Hossain, T Tazin, MAR Ahad, and S Inoue, "Study of LoRaWAN Technology for Activity Recognition", 2018 ACM International Joint Conference on Pervasive and Ubiquitous Computing and the 2018 International Symposium on Wearable Computers (UbiComp/ISWC), Singapore, 2018.
15. MAR Ahad, "Activity Recognition for Health-care and Related Works", 2018 ACM International Joint Conference on Pervasive and Ubiquitous Computing and the 2018 International Symposium on Wearable Computers (UbiComp/ISWC), Singapore, 2018.
16. Tahera Hossain, H Goto, Md Atiqur Rahman Ahad, and S Inoue, "A Study on Sensor-based Activity Recognition Having Missing Data", Joint 7th Int'l Conf. on Informatics, Electronics Vision, 2nd Int'l Conf. on Imaging, Vision Pattern Recognition, Japan, 2018. **(Achieved Best Paper Award)**.
17. Kanij Mehtanin Khabir, Md. Sadman Siraj, Md Ahsan Habib, Tahera Hossain, and Md Atiqur Rahman Ahad, "A Study on DSR Routing Protocol in Adhoc Network for Daily Activities of Elderly Living", Joint 7th Int'l Conf. on Informatics, Electronics Vision, 2nd Int'l Conf. on Imaging, Vision Pattern Recognition, Japan, 2018.
18. Swapnil Sayan Saha, Shafizur Rahman, Miftahul Jannat Rasna, A.K.M. Mahfuzul Islam, and Md Atiqur Rahman Ahad, "DU-MD: An Open-Source Human Action Dataset for Ubiquitous Wearable Sensors", Joint 7th Int'l Conf. on Informatics, Electronics Vision, 2nd Int'l Conf. on Imaging, Vision Pattern Recognition, Japan, 2018. **(Achieved Best Paper Award Candidate)**.
19. Anindya Das Antar, Masud Ahmed, and Md Atiqur Rahman Ahad, "A Survey on Sensor-based Human Activity Recognition and Analysis of Benchmark Datasets", Student Conference on Informatics, Electronics Vision (SCIEV), along with 7th ICIEV 2nd IVPR, Japan, 2018.
20. Sujay Saha, Shadman Saquib Abir, and Md Atiqur Rahman Ahad, "A study on IoT-based Medical Healthcare and Smart Home System", Student Conference on Informatics, Electronics Vision (SCIEV), along with 7th ICIEV 2nd IVPR, Japan, 2018.
21. Nafis Irtija, Mahsius Sami, and Md Atiqur Rahman Ahad, "Fatigue Detection Using Facial Landmarks", 4th Int. Symposium on Affective Science and Engineering, and the 29th Modern Artificial Intelligence and Cognitive Science Conference (ISASE-MAICS), WA, USA, 2018.
22. Uzma Haque Syeda, Ziaul Zafar, Zishan Zahidul Islam, Syed Mahir Tazwar, Miftahul Jannat Rasna, Koichi Kise, and Md. Atiqur Rahman Ahad, "Visual face scanning and emotion perception analysis between Autistic and Typically Developing children", ACM UbiComp Workshop on Mental Health and Well-being: Sensing and Intervention, Hawaii, USA, 2017.
23. Zishan Zahidul Islam, Syed Mahir Tazwar, Md. Zahidul Islam, Seiichi Serikawa, and Md. Atiqur Rahman Ahad, "Automatic Fall Detection System of Unsupervised Elderly People Using Smartphone", 5th IIAE International Conference on Intelligent Systems and Image Processing, USA, 2017.
24. Ahmed Alshammari, Saleh Albdran, Md. Atiqur Rahman Ahad, and Mohammad Matin, "Impact of Angular Spread on Massive MIMO Channel Estimation", 19th International Conference on Computer and Information Technology, BD, pp. 84-87, 2016.
25. Saleh Albdran, Ahmed Alshammari, Md. Atiqur Rahman Ahad, and Mohammad Matin, "Effect of Exponential Correlation Model on Channel Estimation for Massive MIMO", 19th International Conference on Computer and Information Technology, BD, pp. 80-83, 2016.
26. T Nakashima, Gerald Schaefer, Youhei Kuroda, and Md. Atiqur Rahman Ahad, "Performance Evaluation of a Two-Stage Clustering Technique for Time-Series Data", 5th Int Conf on Informatics, Electronics & Vision, BD, May 2016.
27. FS Mahin, MN Islam, G Schaefer, and Md. Atiqur Rahman Ahad, "A Simple Approach for Abandoned Object Detection", The 19th International Conference on Image Processing, Computer Vision, & Pattern Recognition (IPCV), Las Vegas, USA, pp. 427-430, 27-30 July, 2015.
28. N Sakib and M Ahad, "Enhanced Absorption of Solar Energy in Elliptical GaAs Nanowire Array Solar Cells", 4th Int. Conf. on Informatics, Electronics & Vision, Japan, 2015 **(Achieved Best Student Paper Award)**.

29. A Kalyaev, I Korovin, M Khisamutdinov, G Schaefer, and M Ahad, "A Hardware Approach for Organisation of Software Defined Network Switches based on FPGA", 4th Int. Conf. on Informatics, Electronics & Vision, Japan, 2015.
30. AK Jha, A Kumar, G Schaefer, and M Ahad, "An Adaptive Distance-based Edge Preserving Interpolation Algorithm for Natural Images", 4th Int. Conf. on Informatics, Electronics & Vision, Japan, 2015.
31. A Kalyaev, I Korovin, M Khisamutdinov, G Schaefer, and M Ahad, "A Novel Method of Organisation of a Software Defined Network Control System", 4th Int. Conf. on Informatics, Electronics & Vision, Japan, 2015.
32. Md. Atiqur Rahman Ahad, "Datasets for Action, Gesture and Activity Analysis", 2nd Int. Conf. on Intelligent Systems and Image Processing, Japan, 2014.
33. Md. Zahidul Islam, Raufar Shameem, Anindita Mashsharat Naziba, Md. Fazley Rafy, Md. Shakil Pervej, and Md. Atiqur Rahman Ahad, "A Study of Solar Home System in Bangladesh: Current Status, Future Prospect and Constraints", 2nd IEEE Int. Conf. on Green Energy & Technology (ICGET), Bangladesh, 2014.
34. Md. Talal Bin Noman and Md. Atiqur Rahman Ahad, "Easy-Bill: An Mobile Application Program for Users to Pay Various Bills", National Conference on Electronics for Digital Society, organized by Bangladesh Electronics Society, Bangladesh, June 2014.
35. Indorjit Sarkar and Md. Atiqur Rahman Ahad, "Human Action Recognition Using Motion History Image in the presence of Camera Jitter", National Conference on Electronics for Digital Society, organized by Bangladesh Electronics Society, Bangladesh, June 2014.
36. K.A.Ghany, G. Hassan, A.E. Hassanien, H. Hefny, G. Schaefer, and Md. Atiqur Rahman Ahad, "A Hybrid Biometric Approach Embedding DNA Data in Fingerprint Images", 3rd IEEE Int. Conf. on Informatics, Electronics & Vision, BD, 2014.
37. S. Aly, H. Elshazly, A. Ali, H. Hussein, A.E. Hassanien, G. Schaefer, and Md. Atiqur Rahman Ahad, "Molecular Classification of Newcastle Disease Virus Based on Degree of Virulence", 3rd IEEE Int. Conf. on Informatics, Electronics & Vision, BD, 2014.
38. Moin Atique and Md. Atiqur Rahman Ahad, "Inverse Kinematics Solution for a 3DOF Robotic Structure using Denavit-Hartenberg Convention", 3rd IEEE Int. Conf. on Informatics, Electronics & Vision, BD, 2014.
39. A. Jha, A. Kumar, G. Schaefer, and Md. Atiqur Rahman Ahad, "An Efficient Edge Preserving Image Interpolation Algorithm", 3rd IEEE Int. Conf. on Informatics, Electronics & Vision, BD, 2014.
40. H.M. Elahi, Didar Islam, Imtiaz Ahmed, Syoji Kobashi, and Md. Atiqur Rahman Ahad, "Webcam-based Accurate Eye-central Localization", IEEE International Conference on Robot, Vision and Signal Processing, pp. 47-50, Japan, Dec. 2013.
41. H. Imtiaz, U. Mahbub, G. Schaefer, and Md. Atiqur Rahman Ahad, "A Multi-resolution Action Recognition Algorithm using Wavelet Domain Features", IAPR Asian Conference on Pattern Recognition (ACPR2013), Japan, 2013.
42. Tonmoy Roy, Upal Mahbub, Md. Shafiur Rahman, Hafiz Imtiaz, and Md. Atiqur Rahman Ahad, "Temporal Segmentation of Gestures Using Gradient Orientation of Depth Images", Intl. Conf. on Informatics, Electronics & Vision, BD, May 2013.
43. Upal Mahbub, Tonmoy Roy, Md. Shafiur Rahman, Hafiz Imtiaz, Seiichi Serikawa, and Md. Atiqur Rahman Ahad, "One-Shot-Learning Gesture Recognition Using Motion History Based Gesture Silhouettes", Intl. Conf. on Industrial Application Engineering (ICIAE), Japan, Mar. 2013 (**Achieved Best Presentation Award**).
44. M Ahad, "Gesture Recognition with Depth Image - A Simple Approach", SICE Annual Conference, Japan, pp. 1723-1728, Aug. 2012.
45. Upal Mahbub, Hafiz Imtiaz, and Md. Atiqur Rahman Ahad, "Motion Clustering-based Action Recognition Technique Using Optical Flow", International Conference on Informatics, Electronics and Vision (ICIEV), Bangladesh, pp. 919-924, May 2012.
46. U. Mahbub, H. Imtiaz, and Md. Atiqur Rahman Ahad, "An Optical Flow-based Approach for Action Recognition", 14th International Conference on Computer and Information Technology. Bangladesh, 2011 (**Achieved Best Paper Award**).

47. Md. Atiqur Rahman Ahad, "Action Dataset - A Survey", SICE Annual Conference, Japan, Sept. 2011.
48. U. Mahbub, H. Imtiaz, and Md. Atiqur Rahman Ahad, "Improved Approach for Action Recognition based on Local and Global Features", SICE Annual Conference, Japan, Sept. 2011.
49. U. Mahbub, H. Imtiaz, and Md. Atiqur Rahman Ahad, "Action Recognition Algorithm Based on Optical Flow and RANSAC in Frequency Domain. SICE Annual Conference, Japan, Sept. 2011.
50. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "SURF- and Optical Flow-based Action Recognition with Outlier Management", IEEE Computer Vision and Pattern Recognition (CVPR) workshop on Gesture Recognition, USA, June 2011.
51. H. Mahbub, H. Imtiaz, and Md. Atiqur Rahman Ahad, "An Optical Flow-based Action Recognition Algorithm", IEEE Computer Vision and Pattern Recognition (CVPR) workshop on Gesture Recognition, USA, June 2011.
52. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "SURF-based Spatio-Temporal History Image Method for Action Representation", IEEE Int. Conf. on Industrial Technology (ICIT), USA, Mar. 2011.
53. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Approaches for Global-based Action Representations for Games and Action Understanding", IEEE Conf. on Automatic Face and Gesture Recognition workshop (FGw-ECAG), USA, Mar. 2011.
54. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Action Recognition by Employing Combined Directional Motion History and Energy Images", IEEE Conf. on Computer Vision and Pattern Recognition workshop (CVPRw-CVCG), USA, Jun. 2010.
55. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Reduced Feature Vector Analysis for Motion Recognition", Int. Symposium on Robotics and Intelligent Sensors (IRIS), pp. 315-320, Japan, Mar. 2010.
56. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Human Behavior Analysis with Optical Flow and Median-filtered Temporal Motion Segmentation Method", 15th Int. Symposium on Artificial Life and Robotics (AROB), pp. 1022-1025, Japan, Feb. 2010.
57. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Human Activity Analysis: Concentrating on Motion History Image and Its Variants", SICE-ICASE Joint Annual Conf., Japan, Aug. 2009.
58. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Action Recognition with Various Speeds and timed-DMHI Feature Vectors", Int. Conf. on Computer and Info Tech (ICCIT), Bangladesh, pp. 213-218, Dec. 2008.
59. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Solutions to Motion Self-Occlusion Problem in Human Activity Analysis", Int. Conf. on Computer and Info Tech (ICCIT), Bangladesh, pp. 201-206, Dec. 2008.
60. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Directional Motion History Templates for Low Resolution Motion Recognition", 34th Annual Conf. IEEE Industrial Electronics Society (IECON), Florida, USA, pp. 1875-1880, Nov. 2008.
61. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Template-based Human Motion Recognition for Complex Activities", IEEE Int. Conf. on Systems, Man, Cybernetics (SMC), Singapore, pp. 673-678, Oct. 2008.
62. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Human Activity Recognition: Various Paradigms", Int. Conf. on Control, Automation and Systems (ICCAS), Seoul, Korea, pp. 1896-1901, Oct. 2008.
63. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Motion Recognition Approach to Solve Overwriting in Complex Actions", IEEE Int. Conf. Automatic Face and Gesture Recognition (FG), Amsterdam, The Netherland, pp. 1-6, Sept. 2008.
64. Md. Atiqur Rahman Ahad, H Uemura, JK Tan, H Kim, and S Ishikawa, "A Simple Real-time Approach for Action Separation into Action Primitives", British Machine Vision Conference (BMVC) Workshop on Tracking Human for the Evaluation of Their Motion in Image Sequences, Leeds, UK, pp. 69-78, Sept. 2008.
65. Y Nishina, Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Face Tracking Employing Color-based Particle Filter", SCIS-ISIS, Nagoya, Japan, Sept. 2008.

66. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Moment-based Human Motion Recognition from the Representation of DMHI Templates", SICE Annual Conf., Japan, pp. 578-583, Aug. 2008.
67. Md. Atiqur Rahman Ahad, T Ogata, JK Tan, H Kim, and S Ishikawa, "Complex Motion Separation and Recognition Using Directional Motion Templates. 12th Int. Workshop on Combinatorial Image Analysis (IWCIA), Buffalo, NY, pp. 73-82, April 2008. (**Achieved Best Student Paper Award**)
68. Md. Atiqur Rahman Ahad, T Ogata, JK Tan, H Kim, and S Ishikawa, "Comparative Analysis Between Two View-based Methods: MHI and DMHI", 10th Int. Conf. on Computer and Info Tech (ICCIT), Bangladesh, pp. 190-195, Dec. 2007.
69. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "A Smart Automated Complex Motion Recognition Technique", 8th Asian Conf. on Computer Vision (ACCV'07) Workshop on Multi-dimensional and Multi-view Image Processing, Japan, pp. 142-149, Nov. 2007.
70. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Performance of Multi-directional MHI for Human Motion Recognition in the Presence of Outliers", 33rd Annual Conf IEEE Industrial Electronics Society (IECON), Taipei, Taiwan, pp. 2366-2370, Nov. 2007.
71. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Robust Human Motion Recognition Based on Multi-directional Motion Representation", Int. Conf. on Innovative Computing, Info and Control (ICICIC), Kumamoto, Japan, pp. 241-244, Sept. 2007.
72. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Directional Motion Templates: New Appearance-based Recognition Method", Symp. Info Comp Elements (ISICE), Japan, pp. 303-308, Sept. 2007.
73. Md. Atiqur Rahman Ahad, JK Tan, H Kim, and S Ishikawa, "Constraints and Improvements of Factorization Methods for 3D Recovery", Accepted at SICE-ICASE Int. Joint Conf., Korea, Oct. 2006.
74. MAR Ahad, ASMF Alam, M Waheduzzaman, "Resource Management in Next Generation Cellular Networks", 8th Int. Conf. Computer and Info Tech (ICCIT), Bangladesh, pp. 1183-1187, 28-30 Dec. 2005.
75. M Ahad, "An in Depth Analysis on e-Governance: Its Challenges and Prospect in Bangladesh", Proc. of Annual Convention 2005 of Bangladesh Computer Samity (Society), Dhaka, Bangladesh, 2005.
76. M Ahad, S Hossain, "Route Optimization for Network Mobility", SICE Annual Conf, Sapporo, Japan, Vol. 1, pp. 702-704, Aug. 2004.
77. M Ahad, S Hossain, "Augmented Reality and its Challenges", SICE Annual Conf, Sapporo, Japan, Vol. 2, pp. 1041-1043, Aug. 2004.
78. M Ahad, "Improvement of TCP Performances over Wireless Networks", Accepted for publication at Wireless Communications and Information Technology (WCIT), Orlando, USA, July, 2004.
79. M Ahad, "Imminent Issues to Handle in Augmented Reality", Accepted for publication at Wireless Communications and Information Technology (WCIT), Orlando, USA, July, 2004.
80. M Ahad, "Modernized GPS and Galileo - New Trend in GNSS Technology", Accepted for publication at the Joint Meeting of Int. Conf. on Cybernetics and Info. Tech., Systems and Applications (CITSA 2004) and 10th Int. Conf. on Info. Systems Analysis and Synthesis (ISAS 2004), Orlando, USA, July, 2004.
81. M Ahad, "Transport Telematics, Its 'Killer Apps' and Some Concerns for the least Developed World", Accepted for publication at Wireless Communications and Information Technology (WCIT), Orlando, USA, July, 2004.
82. M Ahad, "Optical Interconnection for Networking", Conf. on Horizons of Telecommunication, p. 86, India, Feb. 2003.
83. M Ahad, "Electrical and Thermal Properties of Semiconductor Lasers for Optical Fiber Communication", Conf. on Horizons of Telecommunication, p. 36, Kolkata, India, Feb. 2003.
84. M Ahad, ZH Mahmood, "Sensitivity Model of Facet Reflectivity of Optical Device", Int. Conf. on Electrical & Computer Engineering (ICECE), Dhaka, Bangladesh, pp. 32-34, Jan. 2001.
85. M Ahad, ZH Mahmood, "Threshold Current Density and Temperature Dependence of Lasers having Wavelength of 1.3 and 1.55 micrometer for Optical Fiber Communication", Int. Conf. on Electrical & Computer Engineering (ICECE), Dhaka, Bangladesh, pp. 35-37, Jan. 2001.

86. M Ahad, MT Islam, "Solar Electrification at Cyclone Shelters and Hill Tracts Region in Bangladesh: LGED's Experience", Int. Conf. on Electrical & Computer Engineering (ICECE), Dhaka, Bangladesh, pp. 187-188, Jan. 5-6, 2001.
87. MT Islam, M Ahad, R Karim, S Rafique, "An Approach to Solve Real-time Problem Applying Semaphore", Int. Conf. on Electrical & Computer Engineering (ICECE), Dhaka, Bangladesh, pp. 57-59, Jan. 5-6, 2001.
88. M Ahad, ZH Mahmood, "Lasers Having Wavelength of 1.3 and 1.55 micrometer for Optical Fiber Communication", Int. Conf. on Computer and Information Technology (ICCIT), Dhaka, Bangladesh, pp. 173-176, Jan. 2001.
89. M Ahad, ZH Mahmood, "Study on the Facet Reflectivity of Fabry-Perot Resonator", Int. Conf. on Computer and Information Technology (ICCIT), Dhaka, Bangladesh, pp. 170-172, Jan. 2001.
90. M Ahad, ZH Mahmood, "Temperature Dependence and Threshold Current Density of 1.3 and 1.55 micrometer Lasers for Optical Fiber Communications", Int. Conf. Communications, Computers & Devices, India, 2000.

AWARD/FUND/RECOGNITION

- **IEEE Outstanding Leadership Award**, awarded at the IEEE CyberSciTech/DASC/PICom/CBDCOM, Japan, 2019.
- **UGC Gold Medal 2016**, University Grants Commission (UGC) of Bangladesh, awarded by the Honorable President of Bangladesh in 2018.
- **Best Poster Paper Award**, 2018 ACM International Joint Conference on Pervasive and Ubiquitous Computing and the 2018 International Symposium on Wearable Computers (UbiComp/ISWC), Singapore, 2018.
- **Award in the Sussex-Huawei Locomotion (SHL) Challenge**, in the 2018 ACM International Joint Conference on Pervasive and Ubiquitous Computing and the 2018 International Symposium on Wearable Computers (UbiComp/ISWC), Singapore, 2018.
- **Best Paper Award**, Joint 7th Int'l Conf. on Informatics, Electronics Vision, 2nd Int'l Conf. on Imaging, Vision Pattern Recognition, Japan, 2018.
- **First Place**, in IEEE SS12 Project Competition and Maker Fair, 2018. Project Title: "Smart Band for Senior Citizens", in Virtual Track (out of 60 projects were there, globally). Team Members: Swapnil Saha, Md. Shafizur Rahman. Mentor: MAR Ahad, 2018.
- **Best Paper Award Candidate**, Joint 7th Int'l Conf. on Informatics, Electronics Vision, 2nd Int'l Conf. on Imaging, Vision Pattern Recognition, Japan, 2018.
- **Joint ICTP-IAEA Workshop on Environmental Mapping: Mobilising Trust in Measurements and Engaging Scientific Citizenry**, Italy, Mar. 2017
- **ICTP Regional Workshop and Conference on Advanced Reconfigurable Instrumentation for Scientific Applications**, UKM, Malaysia, Nov., 2016
- **Winner of the Japan Society for Fuzzy Theory and Intelligent Informatics (SOFT) Prize, 2015**
- **Best Student Paper Award**, 4th Int. Conf. on Informatics, Electronics & Vision, Japan, 2015
- **Research Fund**, from University Grants Commission (UGC) Bangladesh, 2013
- **Certificate of Merit**, for Outstanding Performance as Invited Lecture, at the seminar of Himeji Initiative in Computational Medical and Health Technology (Hi-MED), Graduate School of Engineering, University of Hyogo, Japan, July 2013
- **Best Presentation Award**, International Conference on Industrial Application Engineering (ICIAE), Japan, Mar. 2013
- **SICE International Scholarship award**, awarded during the SICE Annual Conference, by the Society of the Instrument and Control Engineers (SICE), Japan, Aug. 2012

- **Best Paper Award**, 14th IEEE International Conference on Computer and Information Technology (ICCIT), Bangladesh, Dec. 2011
- **JSPS Postdoctoral Fellowship Award**, Japan Society for the Promotion of Science (JSPS), 2 years, Japan
- Grant-in-Aid for Scientific Research, Japan Society for the Promotion of Science, Japan
- **Best Paper Award**, Biomedical Fuzzy Systems Association, Japan, 2008
- **Best Student Paper Award**, International Workshop on Combinatorial Image Analysis (IWCIA), Buffalo, NY, USA, Apr. 2008
- **Monbukagakusho Scholarship**, Ministry of Education, Culture, Sports, Science and Technology, JAPAN, for Doctoral Program at Kyushu Institute of Technology, Tobata campus, Japan, Oct. 2005 - Sep. 2009
- **AusAID Scholarship**, Government of AUSTRALIA, for Masters in Computer Science at University of New South Wales, Australia, 2002-2004.
- Research Trip Award, NEC, 2008
- Research Trip Award, Ogasawara Foundation for the Promotion of Science & Engineering, 2008
- Research Trip Award, International Information Science Foundation (IISF), 2008
- Research Trip Award, Meisenkai, Kyushu Institute of Technology, 2007, 2008
- Research Fund, Kyushu Institute of Technology, 2007
- Research Fellow, Renewable Energy Research Center (currently Institute of Energy), University of Dhaka, Bangladesh (2000)
- **University Grants Commission (UGC) Scholarship**, Bangladesh, for the Best Results in the Science Faculty, University of Dhaka for that academic session), Bangladesh, 1997

KEYNOTE/INVITED/GUEST SPEAKER, TUTORIALS

- **Keynote Speaker**, 3rd International Conference on BioSignal Analysis, Processing and Systems (ICBAPS2020), Malaysia, 7-9 April 2020.
- **Keynote Speaker**, International Conference on Sustainable Technology for Industry 4.0 (STI 2019), Bangladesh, 24-25 Dec. 2019.
- **Keynote Speaker**, 2nd International Conference on Innovation in Engineering and Technology (ICIET), Bangladesh, 23-24 Dec. 2019.
- **Invited Speaker**, 22nd International Conference on Computer and Information Technology (ICCIT), Bangladesh, 18-20 Dec. 2019.
- **Invited Speaker**, International Workshop on Human Identification at a Distance, Southern University of Science and Technology, China, 22 Nov., 2019.
- **Keynote Speaker**, 2019 First Doctoral Symposium on Intelligence Enabled Research (DoSIER 2019), India, 19-20 Oct., 2019.
- **Keynote Speaker**, 2019 4th International Conference on Biomedical Imaging, Signal Processing (ICBSP 2019), Japan, 17-19 Oct. 2019.
- **Keynote Speaker**, Int. Conf. on Advances in Science, Engineering and Robotics Technology (ICAS-ERT), Bangladesh, 3-5 May, 2019.
- **Workshop Speaker**, Held at the Int. Conf. on Advances in Science, Engineering and Robotics Technology (ICASERT), Bangladesh, 3-5 May, 2019.
- **Invited Speaker**, Int. Conf. on Electrical, Computer and Communication Engineering (ECCE 2019), Bangladesh, 7-9 February, 2019 [could not attend at the last moment].

- **Keynote Speaker**, Int. Conf. on Innovation in Engineering and Technology (ICIET), Bangladesh, 27-29 Dec., 2018.
- **Keynote Speaker**, Int. Conf. on Advancement in Electrical and Electronic Engineering (ICAEEEE), Bangladesh, 22-24 Nov. 2018.
- **Keynote Speaker**, Joint 3rd Conf on Sustainable Information Engineering and Technology (SIET), 4th Int Symposium on Geoinformatics (ISyG 2018), 10-11 Nov., 2018, Indonesia.
- **Keynote Speaker**, International Conference on Innovations in Science, Engineering and Technology 2018 (ICISSET 2018), Bangladesh, Oct. 2018.
- **Keynote Speaker**, IEEE Int. Conf. on Computing, Power and Communication Technologies (GU-CON), India, 28-29 Sept. 2018.
- Workshop Speaker, IEEE SBDU, University of Dhaka, BD, 2018.
- **Keynote Speaker**, 2nd Int. Conf. on Biosignal Analysis, Processing and Systems (ICPABS 2018), Kuching, Sarawak, July, 2018, Malaysia.
- **Invited Speaker**, Joint 7th Int. Conf. on Informatics, Electronics Vision, 2nd Int'l Conf. on Imaging, Vision Pattern Recognition, June 2018, Japan.
- **Plenary Lecture**, International Symposium on Affective Science and Engineering 2018 (ISASE-MAICS 2018), 31 May - 1 June, 2018, Washington, USA.
- **Keynote Speaker**, Meijo University, Aichi, 2018, Japan.
- **Keynote Speaker**, The 2nd International Conference on Healthcare, SDGs and Social Business, 26-28 April, 2018, Kyushu University, Japan.
- **Tutorial Speaker**, International Conference on Recent Trends in Electrical, Control and Communication (RTECC-18), Chennai, India, 20-22 March, 2018.
- Invited Talk, Sakurai Lab., The University of Tokyo, Japan, Dec. 2017.
- Invited Talk, National Institute of Radiological Science, Japan, Dec. 2017.
- Invited Speaker, IEEE Robotics and Automation Society NSU Student Branch, North South University, BD, Dec. 2017.
- Workshop Speaker, IEEE SBDU, University of Dhaka, BD, Nov. 2017.
- Workshop Speaker (day-long), Premier University, BD, Nov. 2017.
- Invited Speaker, IEEE Day, ISTT, Bangladesh, Oct. 2017.
- Invited Speaker, IEEE Day 2017, Chittagong University of Engineering Technology (CUET), Bangladesh, Oct. 2017.
- **Keynote Speaker**, The 5th IIAE International Conference on Intelligent Systems and Image Processing (ICISIP), Hawaii, USA, 7-12 Sept. 2017.
- **Invited Speaker**, IFSA-Post Workshop, Mie University, Japan, July, 2017.
- **Invited Speaker**, International Workshop on Soft Computing (IWSC), Advanced Medical Engineering Center (AMEC), University of Hyogo, Himeji, Japan, June, 2017.
- **Summer School Speaker**, at Joint 17th World Congress of International Fuzzy Systems Association and 9th International Conference on Soft Computing and Intelligent Systems, Otsu, JP, 27-30 June, 2017.
- Invited Speaker: Kyushu Institute of Technology (Sozo Lab), JP, June 2017.
- Invited Speaker: University of Asia Pacific (UAP), BD, May 2017.
- Invited Speaker: Green University, Bangladesh, 2017.
- Invited Speaker: Fukuoka Women University, Fukuoka, Japan, Dec. 2016.
- Invited Speaker: Toyama University, Japan, Dec. 2016.
- Invited Speaker: University of Hyogo, Himeji, Japan, Dec. 2016.

- Invited Speaker: Kyushu Institute of Technology (Serikawa Lab.), Tobata, Japan, Dec. 2016.
- Invited Speaker: Kyushu Institute of Technology (Sozo Lab.), Japan, Dec. 2016.
- **Keynote Speaker**, International Workshop on Computational Intelligence (IWCI), Tech. Co-sponsor: IEEE, BD, Dec., 2016.
- Invited Speaker: University Teknologi Malaysia (UTM), Malaysia, Nov. 2016.
- Invited Speaker: University Kebangsaan Malaysia (UKM), Malaysia, Nov. 2016.

- **Invited Speaker**, IEEE BDS Congress 2016, Nov. 2016.

- **Keynote Speaker**, International Conference on Intelligent Control, Power and Instrumentation (ICICPI-2016), Tech. Co-sponsor: IEEE, India, 21-23 Oct, 2016.
- Invited Speaker: University of Liberal Arts of Bangladesh (ULAB), BD, 2016.

- **Keynote Speaker**, EEE Fest, Bangladesh University, BD, 2016.

- **Panel Speaker**, 18th Intl Conf on Computer & Information Technology (ICCIT), MIST, BD, 2015.

- **Keynote Speaker**, CSE Fest, Chittagong University of Engineering & Technology, BD, 2015.
- Invited Speaker: Symposium at University of Hyogo, Himeji, Japan, Nov. 2015.
- Special Guest, 6th Bangladesh Physics Olympiad, Mymensingh Zone, BD, October, 2015.
- Invited Speaker, Next-Generation ICT Research Center Seminar, on Research Methodology & How to Write Good Papers, Mie University, Mie, Japan, June, 2015.
- Workshop on Action Recognition using MATLAB, University of Hyogo, Himeji, Japan, June, 2015.
- Invited Speaker: Kyushu Institute of Technology, Kitakyushu, Japan, June, 2015.
- Special Guest, iARC Bangladesh Round, at United International University, BD, 20 Feb. 2015.
- **Workshop Speaker**, 'Mobile Vision' with Matthew Turk (University of California, Santa Barbara), 17th [IEEE] International Conference on Computer & Information Technology (ICCIT), Bangladesh, Dec. 2014.
- Invited Speaker: Osaka Prefecture University, Osaka, Japan, Dec., 2014.
- **Invited Speaker**, Joint 7th International Conference on Soft Computing and Intelligent Systems and 15th International Symposium on Advanced Intelligent Systems, SCIS & ISIS 2014, Japan, Dec. 3-6, 2014.
- Invited Speaker: Osaka Prefecture University, Osaka, Japan, Dec., 2014.
- Invited Speaker: Int. Conf. on Green Technologies for Environmental Protection, Hyderabad, India, Dec. 2014 [could not attend]
- Invited Speaker: Student Association of Excellent and Progressive Spirit (STPES), Faculty of Science & Engineering, Saga University, Saga, Japan, Dec., 2014.
- **Invited Speaker**, IEEE/IIAE International Conference on Intelligent Systems and Image Processing (ICISIP), Nishinippon Institute of Technology, Japan, 2014.
- Invited Speaker: American International University Bangladesh (AIUB), Bangladesh, Nov. 2014.
- Invited Speaker: BRAC University, Bangladesh, 2014.
- Invited Speaker: Oxford International School, Bangladesh, Sept. 2014.
- Speaker: Ahsanullah University of Science & Technology, Bangladesh 2014.
- Invited Speaker: BRAC University, Bangladesh, June, 2014.

- **Keynote Speaker**, IEEE/IIAE International Conference on Intelligent Systems and Image Processing, Kyushu Institute of Technology, Japan, 2013.
- **Invited Speaker**, Seminar of Himeji Initiative in Computational Medical and Health Technology (Hi-MED), Graduate School of Engineering, University of Hyogo, Japan, 2013.
- **Keynote Talk**, International Symposium on Nature Grid in Green Campus and City, Japan, 2012.
- Invited Talk: International Conference on Environmental Aspects of Bangladesh, University of Kitakyushu, Japan, 2012.
- Invited Talk, IEEE FormulaR and Seminar on Gesture Recognition and Robotics, Bangladesh University of Engineering and Technology, Bangladesh, June 2012
- Invited Talk: Symposium on Environmental Issues of Bangladesh and Japan, Kitakyushu International Association, Japan, Sept. 2009

RESEARCH INTERESTS

- Computer/Robot Vision, Healthcare, Image/Medical-Image Analysis
- Sensor-based Healthcare Monitoring System, Internet of Things (IoT)
- Technologies for Unreached People, Green Technology (as volunteer on environmental movement)

APPEARANCES IN MASS MEDIA

- NHK Radio (Bangla section), Japan - Interviews were broadcasted in 4 series.
- Interview (published in) Fukuoka Overseas Students Association (FOSA), Fukuoka, Japan
- Appeared in various domestic newspapers for different programs/events and activities.

INTERNATIONALIZATION AND RESEARCH COLLABORATION

- Memorandum of Understanding (MoU) [under process] between Kyushu Institute of Technology, Japan and University of Dhaka, BD
- Memorandum of Understanding (MoU) [under process] between Fukuoka University, Japan and University of Dhaka, BD
- Memorandum of Understanding (MoU) between Clemson University, USA and University of Dhaka, BD
- Memorandum of Understanding (MoU) between University of Hyogo, Japan and University of Dhaka, BD
- Memorandum of Understanding (MoU) between RCC Institute of Information Technology, India and University of Dhaka, BD
- Memorandum of Understanding (MoU) between Fukuoka Women University, Japan and University of Dhaka, BD
- Agreement with Advanced Graduate Program in Global Strategy for Green Asia, Kyushu University, Japan with Faculty of Engineering & Technology, University of Dhaka, BD
- Joint-research Activity with Glory Limited (it is a pioneer in the development and manufacture of cash handling technology solutions), Japan
- Research Collaboration with: Prof. Dr. Syoji Kobashi, University of Hyogo, Japan
- Research Collaboration with: Assoc. Prof. Dr. Sozo Inoue, Kyushu Institute of Technology, Japan
- Research Collaboration with: Prof. Dr. Koichi Kise, Osaka Prefecture University, Japan
- Research Collaboration with: Prof. Dr. Seichi Serikawa, Kyushu Institute of Technology, Japan

- Research Collaboration with: Assoc. Prof. Dr. Gerald Schaefer, Loughborough University, UK
- Research Collaboration with: Dr. Nabeel Mohammad, ULAB, Bangladesh
- Research Collaboration with: Prof. Dr. Mohammad Tariqul Islam, Universiti Kebangsaan Malaysia (UKM), Malaysia
- Research Collaborator (former): Upal Mahbub, University of Maryland, College Park, USA (Faculty Member, Bangladesh University of Engineering & Technology, Bangladesh)
- Research Collaborator (former): Hafiz Imtiaz, Rutgers University, NJ, USA (Faculty Member, Bangladesh University of Engineering & Technology, Bangladesh)

ACADEMIC INVOLVEMENTS

EDITORIAL INVOLVEMENTS IN JOURNALS

- **Editorial Board Member, Scientific Reports, Nature**
- **Associate Editor, frontiers in Computer Science, frontiers**
- **Editor**, International Journal of Affective Engineering (IJAE), Japan Society of Kansei Engineering (JSKE)
- **Editorial Board Member, Encyclopedia of Computer Graphics and Games, Springer**
- **Only Guest Editor, Special Issue in Pattern Recognition Letters (IF: 2.164), Elsevier**
- **Editor-in-Chief, International Journal of Computer Vision & Signal Processing**
- **Associate Technical Editor (former), IEEE Communication Society Magazine**
- **Lead Guest Editor**, Special Issue on "Advancements of Image Processing & Vision in Healthcare" in Journal of Healthcare Engineering (IF: 0.925), Hindawi
- **Lead Guest Editor**, Special Issue on "Aspects of Multimodality in Action & Behavior Analysis" in Journal on Multimodal User Interfaces (IF: 0.833), Springer
- **Guest Editor**, Special Issue on "Soft Computing in Medical Informatics" in International Journal of Innovative Computing, Information and Control (IJICIC), SCOPUS-indexed journal
- Editor-in-Chief, International Journal of Electronics and Informatics
- Editor-in-Chief, International Journal of Environment
- Advisory Board Member, International Journal of Computer and Information Technology (IJCIT), University of Asia Pacific, BD. ISSN: 2078-5828 (Print), 2218-5224 (Online)
- Reviewer, IEEE Transactions on Instrumentation & Measurement, IEEE
- Reviewer, IEEE Access, IEEE
- Reviewer, Advances in Computer Engineering, Hindawi Publishing Corporation
- Reviewer, Computational and Mathematical Methods in Medicine, Hindawi Publishing Corporation
- Reviewer, Optics Express, The Optical Society
- Reviewer, Applied Optics, The Optical Society
- Reviewer, Neurocomputing, Elsevier
- Reviewer, Applied Soft Computing, Elsevier
- Reviewer, Autosoft Journal, Taylor & Francis
- Reviewer, International Journal of Pattern Recognition and Artificial Intelligence (IJPRAI), World Scientific Publishing

- Reviewer, Journal of the Optical Society of America A, The Optical Society
- Reviewer, Computer Vision and Image Understanding (CVIU), Elsevier
- Reviewer, Pattern Recognition Letters, Elsevier
- Reviewer, Machine Vision and Applications (MVA), Springer
- Reviewer, Multimedia Tools & Applications, Springer
- Reviewer, Robotics & Autonomous Systems, Elsevier
- Reviewer, IEEE Transactions on Systems, Man and Cybernetics, Part: B Cybernetics
- Reviewer, Journal of Circuit, Systems, and Computers (JCSC)
- Reviewer, Theoretical Computer Science, (TCS), Elsevier
- Reviewer, Artificial Life and Robotics Journal, Springer Japan
- Reviewer, International Journal of Shape Modeling (IJSM), World Scientific
- Reviewer, International Journal of Imaging
- Reviewer, International Journal of Tomography and Statistics
- Reviewer, International Journal of Computer Science Issues
- Reviewer, International Journal of Intelligent Engineering & Systems
- Reviewer, Materials Research Society (MRS)

INVOLVEMENTS IN CONFERENCES/WORKSHOPS

- **General Chair**, Joint 2020 9th International Conference on Informatics, Electronics Vision (ICIEV) 4th International Conference on Imaging, Vision Pattern Recognition (IVPR), Japan, June, 2020.
- **General Chair**, Int. Conf. on Activity and Behavior Computing (ABC), Japan, June, 2020.
- **Special Issue Chair**, 18th IEEE International Conference on Pervasive Intelligence and Computing (PICom), Canada, June, 2020.
- **General Chair**, International Workshop on Computer Vision and Application (IWCVA), Bangladesh, Dec. 2019.
- **Workshop and Special Session Chair**, The 17th IEEE International Conference on Pervasive Intelligence and Computing (PICom 2019), 5-8 Aug., 2019, Japan.
- **General Chair**, Joint 2019 8th International Conference on Informatics, Electronics Vision (ICIEV) 3rd International Conference on Imaging, Vision Pattern Recognition (IVPR), Eastern Washington University, Washington, May-June, 2019.
- **General Chair**, Int. Conf. on Activity and Behavior Computing (ABC), USA, May-June, 2019.
- **Publication Chair**, 2018 IEEE International Conference on Systems, Man, and Cybernetics (SMC2018), Miyazaki, Japan, 7-10 Oct., 2018.
- **General Chair**, 2018 Joint 7th International Conference on Informatics, Electronics and Vision (ICIEV), and 2nd Intl. Conference on Imaging, Vision and Pattern Recognition (IVPR), Kitakyushu, Japan, 25-28 June, 2018
- Special Session organizer, "Advancement of Vision-based Recognition Approaches", World Automation Congress, Washington, USA, 3-6 June, 2018.
- PC, 9th EAI International Conference on Mobile Computing, Applications and Services, Osaka, Japan, 28 Feb. - 2 Mar., 2018.

- Member, Scientific Committee, BAPA-BEN Special Conference on Flood, Water Logging Landslides, BD, 12-13 Jan., 2018.
- **Advisory Committee Member**, 20th International Conference on Computer and Information Technology (ICCIT 2017), BD, 22-24 Dec. 2017
- Technical Committee Member, 20th International Conference on Computer and Information Technology (ICCIT 2017), BD, 22-24 Dec. 2017
- **General Co-chair**, International Workshop on Artificial Intelligence and Applications (IWAIA), U of Dhaka, Bangladesh, Dec. 2017
- **General Chair**, Joint 6th International Conference on Informatics, Electronics and Vision (ICIEV), and 7th Intl. Symposium in Computational Medical and Health Technology (ISCMHT), Himeji, Japan, 1-3 Sept. 2017
- **Vice Publication Co-chair**, Joint 17th World Congress of International Fuzzy Systems Association and 9th International Conference on Soft Computing and Intelligent Systems, Otsu, JP, 27-30 June, 2017
- **Vice Award Committee Chair**, Joint 17th World Congress of International Fuzzy Systems Association and 9th International Conference on Soft Computing and Intelligent Systems, Otsu, JP, 27-30 June, 2017
- **General Chair**, IEEE International Conference on Imaging, Vision & Pattern Recognition (icIVPR), BD, Feb. 2017
- Special Session Organizer, IEEE International Conference on Signal and Image Processing Applications (ICSIPA), Special Session on Visual Surveillance for Big Data, Malaysia, 12-14 Sept. 2017
- PC, 7th International Conference on Pattern Recognition and Machine Intelligence (PRMI), India, 5-8 Dec. 2017
- PC, 2017 IEEE International Conference on Systems, Man, and Cybernetics (SMC2017), Canada, 5-8 Oct. 2017
- , PC, 14th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA), Tunisia, 30 Oct. - 3 Nov. 2017
- PC, 3rd International Conference on Advanced Technologies for Signal and Image Processing (AT-SIP'2017), Morocco, 22-24 May 2017
- PC, Joint 17th World Congress of International Fuzzy Systems Association and 9th International Conference on Soft Computing and Intelligent Systems, Otsu, JP, 27-30 June, 2017
- PC, International Conference on Electrical, Computer and Communication Engineering (ECCE 2017), BD, 16-18 Feb. 2017
- PC, 1st EAI International Conference on Smart Grid Assisted Internet of Things, 11-13 July 2017, Ontario, Canada
- **General Chair**, 2nd Student Conference on Science & Engineering (SCSE), U of Dhaka, BD, Feb. 2017
- **Organizing Secretary**, 2nd Bangladesh Electronics Olympiad, University of Dhaka, 27 Jan. 2017
- Organizing Committee member, 7th Bangladesh Physics Olympiad, University of Dhaka, Jan. 2017
- **Advisory Committee member**, 19th International Conference on Computer & Information Technology (ICCIT), Bangladesh, 18-20 Dec. 2016
- Technical Committee member, 19th International Conference on Computer & Information Technology (ICCIT), Bangladesh, 18-20 Dec. 2016
- PC, 3rd International Conference on Nano Electronics Research Education 2016 (ICNERE 2016) and 8th International Conference on Electrical Power, Electronics, Communications, Controls and Informatics System 2016 (EECCIS 2016), Indonesia, 31 Oct - 2 Nov, 2016

- **Advisory Board member**, International Conference on Intelligent Control, Power and Instrumentation (ICICPI), India, 21-23 Oct, 2016
- PC, 13th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA), Morocco, 29 Nov. - 02 Dec., 2016
- Special Session: Action, Behavior Recognition and Understanding (ABRU) at IEEE TENCON 2016, Singapore, 22-25 Nov. 2016
- **General Chair**, IEEE BD Section Congress, University of Dhaka, 4 Nov. 2016.
- **General Chair**, 5th International Conference on Informatics, Electronics and Vision (ICIEV), BD, May 2016
- **Co-Convenor, Scientific Committee**, Special Conference on Coastal and Marine Environment of Bangladesh, BD, 8-9 Jan. 2016
- Organizing Committee member, 6th Bangladesh Physics Olympiad, University of Dhaka, 1-2 Jan. 2016
- **Advisory Committee member**, 18th International Conference on Computer & Information Technology (ICCIT), Bangladesh, 21-23 Dec. 2015
- PC, 3rd International Conference on Advances in Electrical Engineering (ICAEE), BD, 17-19 Dec. 2015
- PC, 1st IEEE WIECON-ECE, BD, Dec. 2015
- **Organizing Co-Chair**, 1st Bangladesh Electronics Olympiad, University of Dhaka, 11 Dec. 2015
- **General Chair**, 3rd International Conference on Green Energy & Technology (ICGET), BD, Sept. 2015
- **General Chair**, 1st Student Conference on Science & Engineering, University of Dhaka, Bangladesh, Sept. 2015
- **General Chair**, 4th International Conference on Informatics, Electronics and Vision (ICIEV), Japan, June 2015
- PC, 17th Intl. Workshop on Combinatorial Image Analysis, India, 24-27 Nov., 2015
- PC, 12th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA), Morocco, 17-20 Nov., 2015
- PC, 16th International Symposium on Advanced Intelligent Systems (ISIS2015), Mokpo, Korea, 4-7, Nov. 2015
- PC, International Conference on Soft Computing in Data Science, Malaysia, 2-3 Sept., 2015
- PC, 2015 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2015), Turkey, 2-5 Aug. 2015
- PC, 4th International Conference on Image Analysis, Social Networks and Texts (AIST), Yekaterinburg, 9-11 April 2015
- PC, The 3rd International Conference on Industrial Application Engineering (ICIAE2015), Japan, Mar. 28-31, 2015
- Member Secretary, Paper Management & Session Management, BAPA-BEN Conference on Environmental Policies and Acts Implementation Problems (EPAIP), Jan. 2015
- **Organizing Co-Chair**, 17th [IEEE] International Conference on Computer & Information Technology (ICCIT), Bangladesh, Dec. 2014
- **Workshop Organizer** on 'Mobile Vision' with Matthew Turk (University of California, Santa Barbara) at 17th [IEEE] International Conference on Computer & Information Technology (ICCIT), Bangladesh, Dec. 2014
- PC, 7th International Electrical Power, Electronics, Communications, Controls, and Informatics Seminar (EECCIS), 27-28 August 2014
- **General Chair**, 3rd International Conference on Informatics, Electronics and Vision (ICIEV), Bangladesh, May 2014

- **General Chair**, 2nd International Conference on Green Energy & Technology (ICGET), Bangladesh, September 2014
- General Chair, 5th International Conference on Environmental Aspects of Bangladesh (ICEAB), Bangladesh, 2014
- **International Relations Chair**, Joint 7th International Conference on Soft Computing and Intelligent Systems and 15th International Symposium on Advanced Intelligent Systems, SCIS & ISIS 2014, Japan, Dec. 3-6, 2014
- **Special Session Organizer** with Gerald Schaefer (Loughborough University, UK) Special Session on "Intelligent Image and Signal Processing", with Joint 7th International Conference on Soft Computing and Intelligent Systems and 15th International Symposium on Advanced Intelligent Systems, SCIS & ISIS 2014, Japan, Dec. 3-6, 2014
- **Chair/Organizer**, Special Session on "Paradigms of Fuzzy Systems for Medical Benefits (FMB)", with 2014 IEEE World Congress on Computational Intelligence (WCCI2014), Sponsored by IEEE Computational Intelligence Society, 2014.
- PC, 2nd International Conference on Intelligent Systems and Image Processing, Japan, Sept. 2014
- PC, [IFMIP2014] 9th International Forum on Multimedia and Image Processing, as a part of [WAC2014] World Automation Congress, Big Island of Hawaii, USA, August 2014.
- PC, International Conference on Active Media Technology (AMT'14), Warsaw, Poland, Aug. 11-14, 2014
- PC, 2nd International Conference on Industrial Application Engineering, China, March 2014
- PC, International Workshop on Medical Image and Signal Analysis, Kyoto, Japan, December 2-5 2013.
- **Chair/Organizer**, Towards Vision- & Signal-based Applications (TVSA) with 2nd IEEE International Conference on Robot, Vision and Signal Processing, 2013
- General Chair, International Conference on Green Energy & Technology (ICGET), Technical Co-sponsor: IEEE, Fukuoka section, Japan, August 2013
- **Steering Committee**, World Renewable Energy Congress 2014 - WREC2014, UK, August 2014
- PC, 16th Intl. Workshop on Combinatorial Image Analysis, Czech Republic, May, 2014
- PC, 9th International Conference on Signal-Image Technology & Internet-Based Systems, Japan, Dec. 2013
- **Program Vice-Chair**, IEEE/IIAE International Conference on Intelligent Systems and Image Processing, Japan, Sept. 2013
- General Chair, 2nd International Conference on Informatics, Electronics and Vision (ICIEV), Bangladesh, May 2013
- PC, IEEE International Conference on Systems, Man, and Cybernetics (SMC), UK, 2013
- PC, International Conference on Electrical Information & Communication Technology, KUET, Bangladesh, 2013
- PC, National Conference on Intelligent Computing & Information Technology, CUET, Bangladesh, 2013
- General Chair, 4th International Conference on Environmental Aspects of Bangladesh (ICEAB13), Japan, August 2013
- **Program Vice-Chair**, International Conference on Industrial Application Engineering (ICIAE), Japan, March 2013
- BAPA-BEN International Conference on Water Resource in South Asia: Conflict to Cooperation, Bangladesh, Jan. 2013 IC WRSA CC 2013
- General Chair, 3rd International Conference on Environmental Aspects of Bangladesh (ICEAB12), Japan, Oct. 2012

- PC, Second International Workshop on Computer Game and its Applications (ComGame2012), Korea, September, 2012
- Organizer, Organized Session (OS), SICE Annual Conference, Akita, Japan, August, 2012
- Conference Secretary and Organizer, 1st International Conference on Informatics, Electronics and Vision (ICIEV), 18-19 May 2012 ICIEV12
- **Technical Advisory Committee**, 2nd International Symposium on Robotics and Intelligent Sensors (IRIS), Malaysia, Sept. 2012
- Conference Secretary, 2nd International Conference on Environmental Aspects of Bangladesh (ICEAB11), Japan, September 2011 ICEAB11
- Conference Secretary and Organizer, 1st International Conference on Environmental Aspects of Bangladesh (ICEAB10), Japan, September 2010 ICEAB10
- PC, International Conference on Computer Vision (ICCV) workshop on Performance Evaluation on Recognition of Human Actions and Pose Estimation Methods, Spain, 2011 PERHAPS@ICCV
- PC, International Conference on Machine Learning (ICML) workshop on Unsupervised and Transfer Learning, USA, 2011 ICML
- PC, IEEE Conference on Computer Vision & Pattern Recognition (CVPR) workshop on Gesture Recognition, USA, 2011
- Organized Session (OS) organizer, SICE Annual Conference, Tokyo, Japan, 2011
- PC, 2nd International Workshop on Facial and Bodily Expressions for Control and Adaptation of Games (ECAG'11) - with IEEE Int. Conf. on Automatic Face & Gesture Recognition (FG), USA, 2011 ECAG@FG
- PC, International Conference on Sciences of Electronic, Technologies of Information and Telecommunications (SETIT), Tunisia, 2011
- PC, International Workshop on Computer Vision and Computer Games (CVCG) - with IEEE Conference on Computer Vision and Pattern Recognition (CVPR), USA, 2010
- PC, SICE 2010 Annual Conference, Taiwan, 2010
- PC, 13th International Workshop on Combinatorial Image Analysis (IWCIA), Mexico, 2009.
- PC, 12th International Conference on Computer and Information Technology (ICCIT), Dhaka, 2009.

ACADEMIC SOCIETY MEMBERSHIPS

- **Senior Member, IEEE (Institute of Electrical & Electronics Engineers)**
- Member, Association for Computing Machinery (ACM)
- Member, The Optical Society of America (OSA)
- Member, International Association of Pattern Recognition (IAPR)
- **Life Member, Bangladesh Electronics Society (BES)**
- **Life Member, Bangladesh Physical Society (BPS)**
- **(Founder) Secretary**, IEEE Computer Society Bangladesh chapter (IEEE CS BDC), 2017, 2018
- **(Founder) General Secretary**, Bangladesh Association of Pattern Recognition (BAPR), 2017
- Member, IEEE Robotics & Automation Society (RAS)
- Member, IEEE Computer Society
- Member, IEEE Systems, Man, and Cybernetics Society (SMC)
- Member, IEEE Communications Society
- Member, IEEE Industrial Electronics Society (IES)

- Member, IEEE Computer Society Technical Committee on Pattern Analysis and Machine Intelligence (TC-PAMI)
- Member, IEEE Computer Society Technical Committee on Intelligent Informatics
- Member, IEEE Computer Society Technical Committee on Multimedia Computing (TCMC)
- Member, IEEE Computer Society Technical Community on e-Government
- Member, IEEE Computer Society Technical Community on Haptics
- Member, IEEE Transportation Electrification Initiative (TEI)
- Member, IEEE Technology and Engineering Management Technical Community
- Member, IEEE Biometrics Council
- Member, IEEE Nanotechnology Council
- Member, IEEE Sensors Council
- Member, IEEE Systems Council
- Member, IEEE Green ICT Community
- Member, IEEE Smart Grid Community
- Member, IEEE Cloud Computing Community
- Member, IEEE Life Sciences Community
- Member, IEEE Internet of Things Community
- Member, IEEE Smart Cities Community
- Founding Member, IEEE Computer Society Bangladesh Chapter
- Center for Natural Science & Engineering Research (CNSER)
- **Advisory Board Member**, Engineering Students' Association of Bangladesh (ESAB)
- Student Member (former), The Society of Instrument and Control Engineers (SICE)
- Member (former), Bangladesh Association of Science & Scientists (BASS)
- Member (former), Bangladesh Association of Science & Scientific Professionals (BASSP)

COURSES I TAUGHT SO FAR

- Computer Vision
- Computer Organization and Architecture
- Microprocessor, Microcontroller & Assembly Language
- Programming Language - C/C++
- Digital Signal Processing
- Digital Image Processing
- Intelligent System Engineering
- Database Management System
- Data Structure and Algorithm
- Research Methodology
- Electrical Circuit and Device
- Nuclear Physics
- Discrete Mathematics
- Theory of Computing

- Communication Theory
- Computer Networks & Applications
- Advanced Networking
- Management Information System (MIS)
- Digital Electronics & Circuits
- Principles of Programming
- Introduction to Computer
- Optical Fiber Communication
- Solid State Devices
- Modern Physics, etc.

STUDENT ADVANCEMENT & JOB PLACEMENT, ETC.

- Anindya Das Antar, EEE, DU
- Masud Ahmed, EEE, DU
- Swapnil Sayan Saha, EEE, DU
- Miftahul Jannat Rasna, Lecturer, EEE, DU
- ABM Hasan Talukder, Asst. Prof., EEE, DU
- Sayma Nowshin Chowdhury, EEE, DU
- Farzana Hasan Shashi, EEE, DU
- Syeda Uzma Haque, EEE, DU
- Hasanur Rahman Chowdhury, EEE, DU
- Ummul Afia Shammi, EEE, DU
- Fahmida Afrin, EEE, DU
- Md Shibly Sadique, EEE, DU
- Nafis Irtija, EEE, DU
- Md. Sahil Hassan, EEE, DU
- Tanmoy Paul, EEE, DU
- Mayesha Mim, EEE, DU
- Joy Majumder, EEE, DU
- Md. Tafsirul Islam, 35batch, 1999-2000, Applied Physics Electronics, DU.
- Abubakar Siddique, APECE, DU
- Tahsina Farah Sanam, Asst. Prof., EEE, BUET
- Walid Bin Habib, EEE, DU
- Md. Ahsan Habib, Asst. Prof., EEE, DU
- Khondoker Murad Hossain, EEE, DU
- Dr. Reza Abedi, Adjunct Professor, Dept. of Electrical & Computer Engineering, Baylor University, USA
- Moin Atique, Biomedical Physics and Technology, DU
- Shekh Md Mahmudul Islam, Faculty, EEE, DU
- Misbah Ibrahim, EEE, DU

- Fahad Parvez Mahdi, APECE, U of Dhaka
- Asif Al Hye, EEE, Bangladesh University of Engineering and Technology
- Samiya Mahjabin, APECE, U of Dhaka
- Md. Kabiruzzaman, APECE, U of Dhaka
- Nazmus Sakib, APECE, U of Dhaka
- Shoaib Haque Khan, APECE, U of Dhaka
- Aminul Haque Anzan, APECE, U of Dhaka
- Syed Ahmed Al Muyeed, APECE, U of Dhaka
- Tanzila Tasnim Ava, APECE, U of Dhaka
- Dr. Mohammad Junaebur Rashid, Faculty, EEE, U of Dhaka
- Rifat Mueid, APECE, University of Dhaka
- Chandrama Ahmed, APECE, University of Dhaka
- Tonmoy Roy, EEE, Bangladesh University of Engineering and Technology
- Shafiur Rahman, EEE, Bangladesh University of Engineering and Technology
- Mohammad Foisal Bin Touhid Siddiki, EEE, U of Dhaka
- Mohammad Tawheed Kibria, Institute of Energy, University of Dhaka, 2014
- Asheek Mohammad Shimul, Dept. of Psychology, University of Dhaka, 2014
- Saadia Binte Alam, IUBAT-International University of Business, Agriculture and Technology, Bangladesh, 2014
- Indrojit Sarker Mridul, APECE, University of Dhaka, 2014
- Ruijing Shen, International Journal of Computer Vision & Signal Processing, 2013
- Hafiz Imtiaz, EEE, Bangladesh University of Engineering and Technology, 2013
- Upal Mahbub, EEE, Bangladesh University of Engineering and Technology, 2013
- Abdullah Al Mamun, APECE, University of Dhaka, 2013
- Rabeya Siddiqui Luna, APECE, University of Dhaka, 2013
- Animesh Pal, APECE, University of Dhaka, 2013
- Farha Diba Sumana, APECE, University of Dhaka, 2013
- Shihan Sajeed, APECE, University of Dhaka, 2013
- Bahauddin Omar, APECE, University of Dhaka, 2013
- Monzur-Ul-Akhir, APECE, University of Dhaka, 2013
- Masud Arnob, APECE, University of Dhaka, 2012

VOLUNTEER ACTIVITIES

- **Executive Committee member**, Bangladesh Poribesh Andolon (BAPA EC) [for period 2015] [It is a common forum of citizens and organizations concerned with the environment of Bangladesh], Bangladesh
- **Founding Counsellor** & (now) Mentor, IEEE Student Branch University of Dhaka (IEEESBDU), launched in 2015.
- Director, Center for Natural Science & Engineering Research (CNSER)
- Executive Committee member & (former) Organizing Secretary during 2012-2016, Alumni Association of APECE-EEE, University of Dhaka, Bangladesh
- Member Secretary of Exhibition, 5th Bangladesh Physics Olympiad (BPO), 30-31 Jan. 2015
- Founder & Coordinator (former), Bangladesh Environment Network Japan (BENJapan)
- BEN Initiators' Group member, Bangladesh Environment Network (BEN)
- Consultative Committee Member, Bangladesh Environment Network (BEN)
- **Life Member**, Dhaka University Alumni Association
- Life Member, Alumni Association of APECE-EEE, DU
- (Founding Member) & Life Member, Nature Study Society of Bangladesh (NSSB)
- Life Member, Notre Dame Nature Study Club, Notre Dame College, Bangladesh
- Member, Education for Sustainable Development, Kitakyushu (ESD-Kitakyushu), JAPAN
- Member, Kitakyushu forum on Asian Women, Kitakyushu, JAPAN
- **Former President** (April 2006 - March 2007), Foreign Students Association (FSA), Kyushu Institute of Technology, Tobata, JAPAN
- Volunteer (former), Japan International Cooperation Agency (JICA), Kitakyushu, 2008
- Volunteer (former), Kitakyushu International Association (KIA), Kitakyushu
- Assistant General Secretary (former), Alumni of Applied Physics, Electronics & Communication Engineering, University of Dhaka, 2005, BANGLADESH
- **Founder & Founding Moderator**, Electronics & Communication Club (ECC), Applied Physics, Electronics & Communication Engineering, (founded in 2004) [renamed as 'Electrical and Electronic Club (EEC)' since Sept. 2015 in the dept. of Electrical & Electronic Engineering (EEE)], University of Dhaka, BD
- Participant of Photography Training Program by NDNCS, BANGLADESH
- Participant of Journalism Training Program by NDNCS, BANGLADESH
- Participant of Field Work Training Program by NDNCS, BANGLADESH
- Participant of Newspaper Publication Training Program by NDNCS, BANGLADESH

RESEARCH STUDENTS

PHD STUDENT

- Ruochen Liao, Osaka University, Japan, 2018 [co-supervising]
- Zasim Uddin, Osaka University, Japan, 2018 [co-supervising]
- Tahera Hossain, Kyushu Inst of Tech, Japan, 2017 [co-supervising]
- Major Saif-Ul-Islam Khan, EEE, U of Dhaka, 2016

VISITING RESEARCHER/STUDENT

- Masud Ahmed, Osaka University, Japan, 2019
- Anindya Das Antar, Osaka University, Japan, 2019
- Amr Elkhohly, Osaka University, Japan, 2018
- Masud Ahmed, Osaka University, Japan, 2018
- Anindya Das Antar, Osaka University, Japan, 2018

MASTERS STUDENT

- Yuka Nishiura, Osaka University, Japan, 2019
- Tanmoy Paul, EEE, DU, 2017
- Ummul Afia Shammi, EEE, DU, 2017
- Ferdous Israt, EEE, DU, 2017
- Kanij Mehtanin Khabir, 2017
- Israt Jahan, EEE, DU, 2016
- Rifat Reza, EEE, DU, 2016
- Md Aloomgir Hossain, EEE, DU, 2016
- Nazmul Islam, EEE, DU, 2016
- Fahian Shahriar Mahin, EEE, DU, 2015
- Nazmus Sakib, EEE, U of Dhaka, 2014
- Talal Bin Noman, APECE, U of Dhaka, 2013
- Fakhurul Alam, APECE, U of Dhaka, 2005
- Edi Amin, APECE, U of Dhaka, 2005

4TH YEAR RESEARCH STUDENTS

- Yuka Nishiura, Osaka University, Japan, 2018
- Arafat Islam, EEE, DU, 2018
- Naimur Rahaman, EEE, DU, 2018
- Sujay Saha, EEE, DU, 2018
- Shadman Saquib Abir, EEE, DU, 2018
- Swapnil S Saha, EEE, DU, 2018
- Shafizur Rahman, EEE, DU, 2018
- Md. Masum Ahmed, EEE, DU, 2017
- Muhammad Shadman Ishrak, EEE, DU, 2017
- Anindya Das Antar, EEE, DU, 2017
- Masud Ahmed, EEE, DU, 2017
- Uzma Syeda Haque, EEE, DU, 2016
- Ziaul Zafer, EEE, DU, 2016
- Nafiz Irtiza, EEE, DU, 2016
- M Sami, EEE, DU, 2016

- Tanmoy Paul, EEE, DU, 2015
- Ummul Afia Shammi, EEE, DU, 2015
- Ferdous Israt, EEE, DU, 2015
- Mostafa Zaman, EEE, DU, 2015
- Nazmul Islam, EEE, DU, 2014
- Israt Jahan, EEE, DU, 2014
- Rifat Mueid, APECE, U of Dhaka, 2013
- Chandrama Ahmed, APECE, U of Dhaka, 2013
- Fahad Parvez Mahdi, APECE, U of Dhaka, 2013
- Md. Mahmudul Habib, APECE, U of Dhaka, 2013
- Fahian Shahriar Mahin, APECE, U of Dhaka, 2013
- Md. Nazmul Islam, APECE, U of Dhaka, 2013
- Indrojit Sarker, APECE, U of Dhaka, 2012
- Talal Bin Noman, APECE, U of Dhaka, 2012
- Hossain Mahbub Elahi, APECE, U of Dhaka, 2012
- Didar Islam, APECE, U of Dhaka, 2012

RESEARCHERS FROM ELSEWHERE

- Omar Shahid, Robotics and Mechatronics Engineering, University of Dhaka, 2019
- Md. Ismail Hossain Raju, Dept. of CSE, Military Institute of Science and Technology (MIST), 2015
- Sharmeen Sultana Ononna, Dept. of CSE, Military Institute of Science and Technology (MIST), 2015
- Major Syed Shafiu Islam Meraz, Dept. of CSE, Military Institute of Science and Technology (MIST), 2015
- Major Md. Zakaria Azam, Dept. of CSE, Military Institute of Science and Technology (MIST), 2015
- Moin Atique, Dept. of Biomedical Physics & Technology, University of Dhaka, 2014
- Upal Mahbub, Asst. Prof., Bangladesh University of Engineering & Technology (BUET), 2010-2013
- Hafiz Imtiaz, Asst. Prof., Bangladesh University of Engineering & Technology (BUET), 2010-2013
- Tonmoy Roy, Dept. of EEE, Bangladesh University of Engineering & Technology (BUET), 2011-2013
- Shafiur Rahman, Dept. of EEE, Bangladesh University of Engineering & Technology (BUET), 2011-2013

TRAVEL INFORMATION

- Australia (July 2010, Jan. 2002 - June 2004: 2.5 years - Sydney, Canberra, New Castle, etc.)
- Bangladesh - as native
- China (2012/2013/2014/2019)
- Germany (2019; 2017)
- Greece (2019)
- India (Sept. 2018, Oct. 2016)
- Italy (Mar. 2017)

- Japan (May 2018 , Dec. 2017, Aug.-Sept. 2017, June-July 2017, Dec. 2016, 2012/2013/2014/2015, Nov. 2009 - April 2012, Oct. 2005 - Sept. 2009): Akita, Tokyo, Kanagawa, Yamanashi, Chiba, Yokohama, Toyama, Aichi (Nagoya), Shiga, Mie, Kyoto, Osaka, Hyogo (Himeji, Kobe), Okayama, Tottori, Shimane, Hiroshima, Yamaguchi, Fukuoka, Saga, Oita, Nagasaki, Kumamoto, Kagoshima, etc.)
- Malaysia (2018, Nov. 2016, April 2012; Dec. 2007; July 2004 - Kuala Lumpur, Malacca)
- Slovenia (2017)
- South Korea (Oct. 2008)
- Taiwan (Nov. 2007)
- The Netherlands (Sept. 2008)
- USA (May-June 2019 - Washington; May-June 2018 - Washington, Denver; June 2011 - Dallas, Houston, Colorado Springs, Denver; March 2011 - Alabama, Dallas, Santa Barbara, San Diego; June 2010 - San Francisco, San Diego; Oct. 2008 - San Francisco, Florida; April 2008 - New York, New Jersey, Buffalo, Boston)

HOBBY

Bird watching, Reading books, Traveling & wandering, Cooking, Gardening, Playing and watching sports (mainly soccer & cricket), Blood donation, Knowing other cultures, and a bit Writing (These are/were my hobbies at different periods. Lately, almost no time to enjoy most of these!)

REFERENCES

Professor Dr. Matthew Turk, *Fellow IEEE, Fellow IAPR*
 President
 Toyota Technological Institute at Chicago (TTIC), USA

Professor Dr. Yasushi Yagi, *Fellow IPSJ*
 Vice-President, Osaka University, Japan

Professor Dr. Seiichi Serikawa
 Dean, Faculty of Engineering
 Dean, Former Vice-President, Kyushu Institute of Technology, Japan