

CURRICULUM VITAE

MD AKTARUZZAMAN (PhD)

Email : mdaktar@iu.ac.bd, mazaman.cse.iu@gmail.com
Nationality : Bangladeshi (by birth)
Present address : 2625 N Meridian St, Apt 814, City: Indianapolis, State: Indiana, ZIP: 46208, USA
SkyPe : Md.Aktaruzzaman78
Web : <https://medicine.iu.edu/faculty/63196/aktar-md>
GoogleScholar : <https://scholar.google.com/citations?user=dp4InSQAAAAJ&hl=en>
ResearchGate : https://www.researchgate.net/profile/Md_Aktaruzzaman6
ORCID : <https://orcid.org/0000-0003-0349-1434>

Family Information:

Spouse name: Mahbuba Sharmin
Country of birth: Bangladesh
Education: MA in English language and Literature
Son: S M Najib Mabrouk
Country of birth: Bangladesh

Education

Name of the degree: Doctor of philosophy (Ph.D.)
(Thesis title: *Features extraction and classification through entropy measures*)
In general sense, computer science methods in Biomedical Signal Processing.
Department: Computer Science
University: Università Degli Studi di Milano (UNIMI), Italy
Year of achievement: **March, 2015**
Supervisor: Professor Dr. Roberto Sassi, Dept. of Computer Science, UNIMI, Italy.
Medium of instructions: English

Name of the degree: Master of Science (M.Sc.)
(Thesis title: *Development of Bengali handwritten numerical data reading system*)
Department: Computer Science and Engineering (CSE)
University: Islamic University (IU), Kushtia, Bangladesh
Score: 446/600
Academic Excellency: 1st class with 1st position
Year of achievement: 2005
Thesis supervisor: Professor Dr. M. Farukuzzaman Khan, Dept. of CSE, IU, Kushtia, Bangladesh.
Medium of instructions: English

Name of the degree: Bachelor of Science (B.Sc.) honors

(Project title: Handwritten Bengali optical character recognition system)

Department: Computer Science and Engineering

University: Islamic University, Kushtia, Bangladesh

Score: 1755/2500

Academic excellency: 1st class with 1st position

Year of achievement: 2003

Project supervisor: Professor Dr. M. Farukuzzaman Khan, Dept. of CSE, IU, Kushtia, Bangladesh.

Medium of instructions: English

Teaching Positions

- Oct, 2019 ~ August, 2022: Professor, Dept. of Computer Science and Engineering, Islamic University, Kushtia, Bangladesh
- Sept, 2016 ~ Oct, 2019: Associate professor, Dept. of Computer Science and Engineering, Islamic University, Kushtia, Bangladesh
- Sept, 2008 ~ Sept., 2016: Assistant professor (on study leave from March 2012~ April 2016) at the Department of Computer Science & Engineering, Islamic University, Kushtia, Bangladesh
- Sept. 2005 ~ Sept 2008: Lecturer at the Department of Computer Science & Engineering, Islamic University, Kushtia, Bangladesh.

Research Positions

- Sept, 2022 ~ Till date Postdoctoral fellow, Krannert Cardiovascular Research Center, Indiana University School of Medicine, Indianapolis, IN 46208, USA
- March, 2012 ~ Feb, 2016 Doctor of Philosophy (PhD) with scholarship, Dept. of Computer Science, University of Milan, Italy

Co-academic/ Administrative Activities

- March, 2020 ~ August, 2022 Chairman, Dept. of Computer Science and Engineering, Islamic University, Kushtia, Bangladesh
- Jan, 2017 ~ Dec, 2017 Coordinator (6th and 7th Batch), Evening Masters in Computer Science and Engineering Program at Islamic University, Kushtia, Bangladesh.
- July, 2016 ~ June, 2018 House Tutor, Shahid Ziaur Rahman Hall, Islamic University, Kushtia, Bangladesh
- July, 2009 ~ June, 2011 House Tutor, Begum Fazilatunnesa Mujib Hall, Islamic University, Kushtia, Bangladesh

Research summary

- Currently, I am working on developing a system for predicting neurological recovery during therapeutic hypothermia for subjects with cardiac arrest, and to risk stratify patients from skin sympathetic nerve activity analysis. During my previous postdoctoral fellowship, I worked on developing systems for monitoring active ageing people at home from wearable sensors analysis.

My research is focused on applying computer science methods (Artificial Intelligence and Machine learning tools) for Biomedical signals processing and analysis to develop systems for health monitoring at home as well as detection or prediction of pathological conditions. As a research output, I have published 18 peer reviewed journal papers, 12 conference papers, and 3 conference abstracts as a first author/ co-author. Most of the research works have been done in collaboration with international research groups.

Scientific Research funding

- July 2020 ~ June 2021: Principal investigator (PI) of the **Development of a dataset for handwritten Bengali compound characters**, funded by the university grants commission (UGC) of Bangladesh, Funds: About \$2000.00
- July 2018 ~ June 2019: PI of the **Mental stress detection system of the university students from heart rate variability analysis** funded by the UGC of Bangladesh, Funds: About \$2000.00.
- March 2012 ~ March, 2015: PhD in Computer Science, Doctoral Scholarship Supported by the Ministry of Education and Culture, Italy, Scholarship: About \$42000.00
- June, 2018: NVIDIA TITAN Xp PRO GPU card as a research grant which worth of about \$1200.00

Theses supervise/co-supervise

- Md Jahangir Alam, **Physical activity recognition from signals acquired through smart phone at different body positions**, Undergraduate Project, 2019
- Md Abdus Salam, **Use of deep learning in Bengali handwritten characters recognition**, M.Sc. 2015 (held in 2018), Dept. Of Computer Science and Engineering, Islamic University, Kushtia, Bangladesh.
- R. Karmacharya, **Automatic sleep scoring: a comparison of features from heart rate variability and actigraphy**, M.Sc. 2015, supervisor: Prof. Roberto Sassi, Dept. of Computer Science, Università degli Studi di Milano, Italy
- Joyassree Sen, **Design and development of an automatic English to Bengali text translator**, Dept. of Computer Science & Engineering, Islamic University, Kushtia, Bangladesh
- Md Muntasir Rahman, **Touchscreen controlled home automation system, Undergraduate project**, Dept. of Computer Science & Engineering, Islamic University, Kushtia, Bangladesh

Awards/ Scholarships

- March 2012~ Feb, 2015: Dcotoral scholarship provided by the Ministry of Education and Culture, Italy
- 2001: Prestigious Chancellor Gold medal award for securing 1st merit position in M.Sc. in the Faculty of applied science and technology, Islamic University, Kushtia, Bangladesh
- 2000: University Grants Commission (UGC) scholarship of Bangladesh for securing the first position in B.Sc. honours in the faculty of applied science and technology, Islamic University, Kushtia, 7003, Bangladesh

Editorial Activities

- **Publication chair:** 2021 IEEE International Conference on Biomedical Engineering, Computer and Information Technology for Health (BECITHCON)
- **Associate editor:** Sleep Medicine and Disorders: International Journal since 2017
- **Reviewer:** [Journal of Physiological Measurements \(9\)](#)
- **Reviewer:** [Biomedical Signal Processing and Control \(3\)](#)
- **Reviewer:** [Computers in Biology and Medicine \(6\)](#)
- **Reviewer:** [Journal of Entropy \(1\)](#)
- **Reviewer:** [Sustainable Technology for Industry 4.0, 2020 \(4\)](#)
- **Meta-Reviewer:** [BECITHCON 2021, Bangladesh \(8\)](#)
- **Reviewer:** [IC4ME2, 2021, Rajshahi University, Rajshahi, Bangladesh \(4\)](#)
- **Reviewer:** [IEEE-iCOSTE,2021, Australia \(1\)](#)
- **Reviewer:** [IC⁴IR, 2021, Dhaka, Bangladesh \(7\)](#)

Thesis Review (External)

- Data Hiding in an Encrypted Image by using Huffman Coding Algorithm, MS 2015-2016, Jatiya Kabi Kazi Nazrul Islam University, Trishal, Mymensingh, Bangladesh
- Lung Cancer Detection and Segmentation using Fuzzy Image Processing Techniques, MS 2016-2017, Jatiya Kabi Kazi Nazrul Islam University, Trishal, Mymensingh, Bangladesh
- Classification of EEG Signals for Motor Imagery Movement in BCI System, MS 2016-2017, Jatiya Kabi Kazi Nazrul Islam University, Trishal, Mymensingh, Bangladesh

- Loosely Coupled Distributed System Integration Enabling Electronic Health Record, MS 2016-2017, Jatiya Kabi Kazi Nazrul Islam University, Trishal, Mymensingh, Bangladesh
- Convolutional Neural Networks (CNN) for Detecting Fruit Information Using Machine Learning Techniques, MS 2016-2017, Jatiya Kabi Kazi Nazrul Islam University, Trishal, Mymensingh, Bangladesh

Project Evaluation Committee: _____

- Member of the project evaluation committee for research grants funded by the University Grant Commission of Bangladesh, Islamic University, Kushtia-7003, 2021-2022 Fiscal Year.

Professional Membership _____

- Member, IEEE-R10, Bangladesh (Mem ID:97067146)
- Member IEEE Computer Society
- Member, IEEE EMBS, IEEE WIE
- Branch Advisor 2021, IEEE Student Branch, Islamic University

Participation in international conferences _____

- **Publication chair**, 2021 International Conference on Biomedical Engineering, Computer and Information Technology for Health (BECITHCON), 2021, Dhaka, Bangladesh
- **Session chair**, 2021 International Conference on Computer, Communication, Chemical, Material, and Electronic Engineering (IC⁴ME²), 26-27 Dec, 2021, Rajshahi, Bangladesh
- **Session chair**, 2021 International Conference on Biomedical Engineering, Computer and Information Technology for Health (BECITHCON), 2021, Dhaka, Bangladesh
- **Session chair and PC member**, International Conference on Sustainable Technologies for Industry 4.0, 19-20th December, 2020, Purbachal, Dhaka, Bangladesh
- **Session chair and PC member**, International Conference on Sustainable Technologies for Industry 4.0, 24-25th December, 2019, Purbachal, Dhaka, Bangladesh
- **Presenter**, International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC, Aug. 25-29, 2015, Milan, Italy

- 8th Conference of the European Study Group on Cardiovascular Oscillations (ESGCO 2014), May. 25-28, 2014 Trento, Italy
- Computing in Cardiology (CinC 2013) Sept. 22-25, 2013, Zaragoza, Spain

Participation in National Webinars ---

- **Chair**, Recent Trends of Research in Computer Science, Organized by the Dept. of Computer Science and Engineering, Islamic University, Kushtia-7003, Bangladesh, 15th Feb, 2021, Speaker: Professor. Dr. A. B. M. Shawkat Ali, Adjunct Professor, Central Queensland University, Australia
- **Chair**, Research and Co-curricular Activities in Computer Science and Engineering, Organized by the Dept. of Computer Science and Engineering, Islamic University, Kushtia-7003, Bangladesh, 1 Jan, 2021, Speaker: Professor. Dr. M. Kaykobad, BRAC University, Bangladesh
- **Chair**, Wearable Sensors for Health Monitoring, Organized by the Dept. of Computer Science and Engineering, Islamic University, Kushtia-7003, Bangladesh, 10th Jan, 2021, Speaker: Dr. Chandan Karmakar, Senior Lecturer, Deakin University, Australia.
- **Speaker**, Higher Education Opportunities, Preparation, and Challenges, Organized by the Dept. of Computer Science and Engineering, Z H Shikder University, Madaripur, Bangladesh, 10th Dec, 2020

Participation in international summer/winter schools ---

- International Summer School on *Formal Methods for the Design of Computers, Communications, and Software Systems (SFM-14)*, 16th-20th June, 2014 at Bertinoro, Italy.
- *Bertinoro International Spring School (BiSS 2013)*, 3rd-9th March, Bertinoro, Italy.

Publications list <hr/>
<ul style="list-style-type: none"> • Refereed journal papers:
<p>[1] Md. Ali Hossain, Tania Akter Asa, Md. Rabiul Auwal, Md. Aktaruzzaman, Md Mahfizur Rahman, M. Zahidur Rahman, Mohammad Ali Moni, The pathogenetic influence of smoking on SARS-CoV-2 infection: Integrative transcriptome and regulomics analysis of lung epithelial cells, <i>Computers in Biology and Medicine</i>, 159, 106885, 2023, DOI: 10.1016/j.combiomed.2023.106885</p>

[2] Md Hafizur Rahman, Md Shafiqul Islam, Mir Kanon Ara Jannat, Giuliano Grossi, Sathya Basak, **Md Aktaruzzaman, Real-time face mask position recognition system based on MobileNet model**, Journal of Smart Health, Elsevier, (accepted), 27-01-2023, DOI: [10.1016/j.smhl.2023.100382](https://doi.org/10.1016/j.smhl.2023.100382)

[3] Md Shafiqul Islam, Md Moklesur Rahman, Md Hafizur Rahman, Massimo Walter Rivolta, and **Md Aktaruzzaman, RATNet: A deep learning model for Bengali Handwritten Characters Recognition**, Journal of Multimedia Tools and Applications, Vol. 81, pp. 10631-10651, 2022, DOI: [10.1007/s11042-022-12070-4](https://doi.org/10.1007/s11042-022-12070-4)

[4] Sayeed Rushd, Moklesur Rahman, Mohammad Arifuzzaman, and **Md. Aktaruzzaman, A decision support system for predicting settling velocity of spherical and non-spherical particles in Newtonian fluids**, Particulate Science and Technology, October, 2021 (online), DOI: [10.1080/02726351.2021.1982092](https://doi.org/10.1080/02726351.2021.1982092)

[5] S. A. Rushd, M. Moklesur Rahman, M. Arifuzzaman, S. A. Ali, F. Shalabi, and **M. Aktaruzzaman, Predicting pressure losses in the water-assisted flow of unconventional crude with machine learning**, Journal of Petroleum Science and Technology, Vol. 30 (5), pp. 1-18, 2021 DOI: [10.1080/10916466.2021.1980012](https://doi.org/10.1080/10916466.2021.1980012)

[6] **Md Aktaruzzaman**, Tewodros Mulugate Dagne, Massimo Walter Rivolta, Roberto Sassi, **Improved lowcost recognition system for handwritten Bengali Numerals**, International Journal of Computer Applications in Technology, vol 62 (04), pp. 375-383, 2021, DOI: [10.1504/IJCAT.2020.107424](https://doi.org/10.1504/IJCAT.2020.107424)

[7] Md Moklesur Rahman, Md. Shafiqul Islam, Roberto Sassi, **Md Aktaruzzaman, Convolutional neural networks performance comparison for handwritten Bengali numerals recognition**, SN Applied Sciences, 2019, Vol. 1, 1660, DOI: [10.1007/s42452-019-1682-y](https://doi.org/10.1007/s42452-019-1682-y)

[8] Massimo W. Rivolta, **Md. Aktaruzzaman**, Giovanna Rizzo, Claudio L. Lafortuna, Maurizio Ferrarin, Gabriele Bovi, Daniela R. Bonardi, Andrea Caspanif, Roberto Sassi, **Evaluation of the Tinetti score and fall risk assessment via accelerometry based movement analysis**, *Artificial Intelligence in Medicine*, vol. 95, pp. 38-47, 2019, ISSN: 0933-3657, DOI: [10.1016/j.artmed.2018.08.005](https://doi.org/10.1016/j.artmed.2018.08.005)

[9] George Manis, **Md Aktaruzzaman**, and Roberto Sassi, **Low Computational Cost for Sample Entropy**, *Entropy*, vol. 20(1), pp. 61 (15 pages), 2018. ISSN: 1099-4300. DOI: [10.3390/e20010061](https://doi.org/10.3390/e20010061)

[10] **M. Aktaruzzaman**, M.W. Rivolta, R. Karmacharya, N. Scarabottolo, L. Pugnetti, M. Garegnani, G. Bovi, G. Scalera, M. Ferrarin, R. Sassi, **Performance comparison between wrist and chest actigraphy in combination with heart rate variability for sleep classification**, *Computers in Biology and Medicine*, vol. 89, pp. 212-221, 2017. ISSN: 0010-4825. DOI: [10.1016/j.combiomed.2017.08.006](https://doi.org/10.1016/j.combiomed.2017.08.006)

[11] G. Manis, **M. AKtaruzzaman**, and R. Sassi, **Bubble entropy: an entropy almost free of parameters**, *IEEE Transactions on Biomedical Engineering*, vol. 64(11), pp. 2711-2718, 2017. ISSN: 0018-9294. DOI:10.1109/TBME.2017.2664105

[12] **M. Aktaruzzaman** and R. Sassi, **Parametric estimation of sample entropy in heart rate variability analysis**, *Biomedical Signal Processing and Control*, Vol. 14, PP. 141-147, 2014, ISSN: 1746-8094, DOI:10.1016/j.bspc.2014.07.011

[13] S. Cerutti, V. D. Corino, L. Mainardi, F. Lombardi, **M. Aktaruzzaman**, and R. Sassi, **Non-linear regularity of arterial blood pressure variability in patient with atrial fibrillation in tilt-test procedure**, *Europace*, Suppl 4, PP. iv141-iv147, 2014, ISSN: 1099-5129, DOI: 10.1093/europace/euu262

[14] **M. Aktaruzzaman**, M. Migliorini, M. Tenhunen, S. L. Himanen, A. M. Bianchi, and R. Sassi, **The addition of entropy-based regularity parameters improves sleep stage classification based on heart rate variability**, *Medical & Biological Engineering & Computing*, vol. 53(5), pp. 415-425, 2015. ISSN: 0140-0118, DOI:10.1007/s11517-015-1249-z

[15] M. Muntasir Rahman, **M. Aktaruzzaman**, Mst. Ashrafunnahar Hena, **Design and Development of a Simple Low-cost Touchscreen to Control Home Automation System**, *International Journal of Information Technology and Computer Science*, Hongkong, Vol. 4, PP. 26-33, 2012, DOI:10.5815/ijitcs.2012.11.04

[16] M. Ali Hossain, Ahsan-Ul-Amlbia, **M. Aktaruzzaman**, and Ahaduzzaman Khan, **Implementation of Radon Transformation for Electrical Impedance Tomography (EIT)**, *International Journal of Information Science and Techniques*, Vol. 2 (0 5), PP.11-22, 2012, E-ISSN: 2249-1139, DOI: 10.48550/arXiv.1211.1252

[17] Kislunoman, Md Ibrahim Abdullah, and **Md Aktaruzzaman**, **Performance of OFDM with I/Q imbalance and Phase Noise**, *International Journal of Advanced Research in Computer Science*, Vol. 3(04), 2012, url: <https://www.researchgate.net/publication/257964120>

[18] M. Mojahidul Islam, **M. Aktaruzzaman**, M. Farukuzzaman Khan, and M. Shohidul Islam, **Handwritten Character Recognition System for Bangla Text Containing Modifiers and Overlapped Characters**, *Asian Transactions on Computers*, Vol. 01 (05), PP. 15-19, Pakistan, 2011, ISSN: 2221-4275, url: <https://www.researchgate.net/publication/257964486>

[19] M. Atiqur Rahman, Ahsan-Ul-Ambia, and **M. Aktaruzzaman**, **Recognition Static Hand Gestures of Alphabet in ASL**, *International Journal of Computer and Information Techniques*, vol, 2(01), pp. 75-78, URL:http://www.ijcit.org/ijcit_papers/vol2no1/IJCIT-110749.pdf

[20] **M. Aktaruzzaman**, M. Farukuzzaman Khan, and Dr. Ahsan-Ul-Ambia, **A new technique for segmentation of handwritten numerical strings of Bangla language**, I.J. of

Information Technology and Computer Science, 2013, vol. 05, pp. 38-43, DOI: [10.5815/IJITCS.2013.05.05](https://doi.org/10.5815/IJITCS.2013.05.05)

- **International conference papers:**

[1] Md. Moklesur Rahman, and **Md. Aktaruzzaman**, **An End-to-End Deep Learning Model for Mental Arithmetic Task Classification from Multi-channel EEG**, *2021 IEEE International Conference on Biomedical Engineering, Computer and Information Technology for Health (BECITHCON)*, 4-5th Dec, Dhaka, Bangladesh, DOI: [10.1109/BECITHCON54710.2021.9893638](https://doi.org/10.1109/BECITHCON54710.2021.9893638)

[2] M. S. Islam, M. M. Rahman,, M. R. Hoque, M H Rahman, A. K. Roonizi, and **M. Aktaruzzaman**, **A deep learning based multi-model ensemble method for eye state recognition from EEG**, *IEEE 11th Annual computing and communication workshop and conference*, 2021, 27-30 Jan, USA, pp. 819- 824, DOI: [10.1109/CCWC51732.2021.9376084](https://doi.org/10.1109/CCWC51732.2021.9376084)

[3] M. M. Rahman, M S Islam, M K Jannat, M H Rahman, M Arifuzzaman, R Sassi, **M Aktaruzzaman**, **EyeNet: An Improved Eye States Classification System using Convolutional Neural Network**, *2020 22nd International Conference on Advanced Communication Technology (ICACT)*, Phoenix Park, PyeongChang,, Korea (South), 2020, pp. 84-90, DOI: [10.23919/ICACT48636.2020.9061472](https://doi.org/10.23919/ICACT48636.2020.9061472)

[4] M. M. Rahman, M. S. Islam, M. H. Rahman, R. Sassi, M. W. Rivolta and **M. Aktaruzzaman**, **A New Benchmark on American Sign Language Recognition using Convolutional Neural Network**, *2019 International Conference on Sustainable Technologies for Industry 4.0 (STI)*, Dhaka, Bangladesh, 2019, pp. 1-6, DOI: [10.1109/STI47673.2019.9067974](https://doi.org/10.1109/STI47673.2019.9067974)

[5] M S Islam, M M Rahman, M H Rahman, M Arifuzzaman, Roberto Sassi, **Md Aktaruzzaman**, **Recognition Bangla Sign Language using Convolutional Neural Network**, *International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT)*, 22-23 September, 2019, Skheir, Bharain, DOI: [10.1109/3ICT.2019.8910301](https://doi.org/10.1109/3ICT.2019.8910301)

[6] Massimo W Rivolta, **Md Aktaruzzaman**, Tamara Stampalija, Daniela Casati, Martin G Frasch, Enrico Ferrazzi, and Roberto Sassi, **Regularity of Fetal HRV Changes in an In-vivo Sheep Model of Labor**, *Computing in Cardiology*, September 11-14, 2016, vol. 43, pp. 901-904. ISSN: 2325-8861, Vancouver, Canada, url: <https://ieeexplore.ieee.org/document/7868889>

[7] M. W. Rivolta, M. Migliorini, **M. Aktaruzzaman**, R. Sassi, and A. M. Bianchi, **Effects of the series length on Lempel-Ziv complexity**, *36th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, Chicago, USA, 26th-30th August, 2014, ISBN: 978-1-4244-7929-0, DOI: [10.1109/EMBC.2014.6943685](https://doi.org/10.1109/EMBC.2014.6943685)

[8] **M. Aktaruzzaman**, V. Corino, L. T. Mainardi, S. R. Ulmoen, P. G. Platonov, A. Tveit, S. Enger, and R. Sassi, **HRV Regularity During Persistent Atrial Fibrillation: A Parametric Assessment Using Sample Entropy**, *8th Conference of the European Study Group on Cardiovascular Oscillations (ESGCO)*, Trento, Italy, 25-28th May, 2014, ISBN: 978-1-4799-3969-5, DOI: [10.1109/ESGCO.2014.6847561](https://doi.org/10.1109/ESGCO.2014.6847561)

[9] **M. Aktaruzzaman** and R. Sassi, **SampEn Parametric Estimation for Heart Rate Variability Analysis**, *Computing in Cardiology (CinC)*, Zaragoza, Spain, 22-25th September, 2013, ISBN: 978-1-4799-0884-4, <https://ieeexplore.ieee.org/document/6713405>

[10] M. Sajedul Haque, M. S. Ali, S. K. Mondol, **M. Aktaruzzaman**, and Dr. B. Islam, **Performance Comparison of Fuzzy Queries on Fuzzy Database and Classical Database**, *ICECE, Dhaka, Bangladesh*, 19-20, December, 2008, E-ISBN:978-1-4244-2015-5, DOI: [10.1109/ICECE.2008.4769291](https://doi.org/10.1109/ICECE.2008.4769291)

[11] **M. Aktaruzzaman**, N. Scrobotollo and R. Sassi, **Parametric estimation of sample entropy for physical activity recognition**, *IEEE EMBC* Aug 25-29, 2015, Milan, Italy, DOI: [10.1109/EMBC.2015.7318401](https://doi.org/10.1109/EMBC.2015.7318401)

[12] M.W. Rivolta, **M. Aktaruzzaman**, G. Rizzo, C. L. Lafortuna, M. Ferrarin, G. Bovi, D. R. Bonardi, and R. Sassi, **Automatic vs. clinical assessment of fall risk in older individuals: a proof of concept**, *IEEE EMBC*, Aug 25-29, 2015, Milan, Italy, DOI: [10.1109/EMBC.2015.7319987](https://doi.org/10.1109/EMBC.2015.7319987)

- **Conference abstracts**

[1] M. W. Rivolta, **Md Aktaruzzaman**, G. Rizzo, C. L. Lafortuna, M. Ferrarin, G. Bovi, D. R. Bonardi and R. Sassi, **Accelerometric-based Features as Surrogate of Tinetti test**, in *XVII National Congress of the Italian Society of Movement Analysis in Clinics - SIAMOC 2016*, Milan, October 5-8, 2016, url: <https://core.ac.uk/reader/187964232>

[2] **M. Aktaruzzaman**, G. Manis, R. Sassi, **Permutation entropy and its parametric estimation in heart rate variability analysis**, in *9th meeting of the European Study Group on Cardiovascular Oscillations - ESGCO 2016*, pp. 159-160, Lancaster (UK) April 10-14, 2016, url: <https://core.ac.uk/reader/187964230>

[3] **M. Aktaruzzaman**, M.W. Rivolta, R. Karmacharya, L. Pugnetti, M. Garegnani, G. Bovi, M. Ferrarin, R. Sassi, **Use of detrended fluctuation analysis for sleep vs wake classification from heart rate variability**, in *9th meeting of the European Study Group on Cardiovascular Oscillations - ESGCO 2016*, pp. 36-37, Lancaster (UK) April 10-14, 2016, url: <https://core.ac.uk/display/187964229>

- **Editorial**

Md Aktaruzzaman, **Long Term Sleep Quality Assessment: A New Hope**, *Sleep Medicine and Disorders: International Journal*, vol. 01 (02), 2017

Md Aktaruzzaman