

# DR. MD. ABIR HOSSAIN

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## OBJECTIVE

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A decision-maker, self-motivated, energetic, well speaker and having analytical capabilities is interested to join in the research and teaching-oriented career in a reputed university in the computer science and communication engineering department.

## EDUCATION

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<b>Doctor of Philosophy(Ph.D.)</b> Computer Science and Communication Engineering, Waseda University, Japan. CGPA: 3.8	2017 - 2020
<b>Masters of Science (M.sc.)</b> Information and Communication Technology(ICT), IICT, BUET, Bangladesh. CGPA: 3.166	2012 - 2017
<b>Bachelor of Science (B.Sc.)</b> Information and Communication Technology(ICT), MBSTU, Bangladesh. CGPA: 3.83	2006-2011

## TEACHING EXPERIENCES

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<b>Associate Professor</b> Information and Communication Technology(ICT), MBSTU, Bangladesh.	2021 - Continue
<b>Visiting Associate Professor</b> Department of Sociology, Rabindra University, Bangladesh.	2022 - 2023
<b>Visiting Associate Professor</b> Department of Economics, Rabindra University, Bangladesh.	2022 - 2023
<b>Assistant Professor</b> Information and Communication Technology(ICT), MBSTU, Bangladesh.	2017 - 2021
<b>Lecturer</b> Information and Communication Technology(ICT), MBSTU, Bangladesh.	2014 - 2017
<b>Junior Lecturer</b> Computer Science and Engineering, IST, Dhaka, Bangladesh.	2012 - 2014

Moreover, i am serving as a research external member and external examiner for Pabna Science and Technology University and Hajee Mohammad Danesh Science & Technology University, Bangladesh.

## RESEARCH PAPERS

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### Conference Papers

- Binodon, Haque, M. R., Shanto, M. A. H., Karmaker, A., & Hossain, M. A. (2023, May). Priority-Based Intelligent Reflecting Surface for Uplink 6G Communication. In Proceedings of the Fourth International Conference on Trends in Computational and Cognitive Engineering: TCCE 2022 (pp. 321-330). Singapore: Springer Nature Singapore.
- Hasan, M. N., Uddin, R., Asaduzzaman, M., Reza, M. M., & Hossain, M. A. (2022, December). A modified CNN model for diagnosing schizophrenia disease using fMRI data. In 2022 12th International Conference on Electrical and Computer Engineering (ICECE) (pp. 433-436). IEEE.

3. Moe, M. M. M., Abir, H. M., SAITO, M., & Shimamoto, S. (2020, September). Cooperative Relaying System Employing OFDM Based NOMA System. In *IEICE Conferences Archives*. The Institute of Electronics, Information and Communication Engineers.
4. Hossain, M. A., Saitou, M., Pan, Z., Liu, J., & Shimamoto, S., Orthogonal Frequency Subcarrier-based Multiple Random Access in Ultra Reliability and Low Latency Communication. In *2nd IEEE Workshop on Cyber-Physical Networking (CPN'20), CCNC 2020, IEEE*.
5. Hossain, M. A., Karmaker, A., & Alam, M. S. (2017, March). Resolving spatial unfairness problem with reduced-handshaking in underwater acoustic sensor network. In *2017 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET)* (pp. 2178-2182). IEEE.
6. Khalil, M. I., Hossain, M. A., & Ahmed, I. (2017, February). DURI-MAC: A dual channel receiver initiated MAC protocol for wireless sensor network (WSN). In *2017 International Conference on Electrical, Computer and Communication Engineering (ECCE)* (pp. 577-582). IEEE.
7. Khalil, M. I., Hossain, M. A., Mamtaz, R., Ahmed, I., & Akter, M. (2017, February). Time efficient receiver oriented sleep scheduling for underwater sensor network. In *2017 IEEE International Conference on Imaging, Vision & Pattern Recognition (icIVPR)* (pp. 1-6). IEEE.
8. Khalil, M. I., Hossain, M. A., Haque, M. J., & Hasan, M. N. (2017, February). EERC-MAC: Energy efficient Receiver Centric MAC protocol for Wireless Sensor network. In *2017 IEEE International Conference on Imaging, Vision & Pattern Recognition (icIVPR)* (pp. 1-5). IEEE.

## Journal Papers

1. Shanto, M. A. H., Binodon, Karmaker, A., Reza, M. M., & Hossain, M. A. (2022). Cluster-based transmission diversity optimization in ultra reliable low latency communication. *Network*, 2(1), 168-189.
2. Hossain, M. A., Karmaker, A., & Alam, M. S., A Low Latency MAC Protocol with Reduced Handshaking for Provisioning Spatial Fairness in Underwater Sensor Network, in *International Journal of Wireless Information Networks*, 2021, vol. 28, iss. 2, pp 147-161.
3. Hossain, M. A., Pan, Z., Saitou, M., Liu, J., & Shimamoto, S., Robotic Inner Signal Propagation and Random Access over Hybrid Access Scheme, in *International Journal of Computer Networks & Communications (IJCNC)*, 2020, vol. 12, pp71-89.
4. Hossain, M. A., Pan, Z., Saitou, M., Liu, J., & Shimamoto, S., Multiband Massive Channel Random Access in Ultra-Reliable Low-Latency Communication, *IEEE Access* 2020 vol.8, pp81492-81505.
5. Hossain, M. A., & Reza, M. M., E-MODLEACH: An Extended MODLEACH Protocol for Wireless Sensor Network, in *Journal of Network Security and Computer Networks*, Vol. 6, Iss. 1, (January-April, 2020), ISSN: 2581-639X.
6. Hossain, M. A., Khalil, M. I., & Reza, M. M. (2017). Energy Hole Minimization Using Redundant Route in Wireless Sensor Network. *International Journal of Computer Science and Software Engineering*, 6(9), 204.
7. Hossain, M. A., Reza, M. M., Khan, N. B., & Alam, M. T. (2016). IRI-MAC: An Improved Receiver Initiated MAC Protocol for Wireless Sensor Network, in *International Journal of Computer Applications*, Vol. 143, Iss. 9, June 2016, (0975 – 8887).

## RESEARCH INTEREST

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1. 6G and 5G communication
2. Ultra Reliability and Low Latency Communication.
3. Underwater Wireless Sensor Network.

## RESEARCH PROJECTS

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1. A digital patient treatment system for Bangladesh.
2. An intellectual display system displays advertisements in the presence of the audience.

## ACHIEVEMENTS

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1. Achieved Deans award for obtaining First position in the department of Information and Communication Technology (ICT) for the session 2005-2006.
2. Achieved medal for runner up position into the inter-department badminton competition for the session 2009-2010.

## PROFESSIONAL AFFILIATIONS

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1. Assistant Proctor(2021-2022), Mawlana Bhashani Science and Technology University.
2. Member, Bangladesh Computer Society (Association of Computer Professionals of Bangladesh).
3. Graduate Student Member, IEEE, Bangladesh.
4. Member, Bangladesh University Teachers Association.

## PERSONAL STRENGTHS

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1. Independent thinker
2. Creative idea maker
3. Good problem solver

## PERSONAL INFORMATION

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<b>Date of Birth</b>	8 September 1988
<b>Marital Status</b>	Married
<b>Address</b>	Dept. of ICT, Mawlana Bhashani Science and Technology University
<b>Language proficiency</b>	Bengali (Mother tongue), English (second language), and Japanese (beginner).
<b>Height</b>	168 cm
<b>Religion</b>	Islam(sunni)
<b>Gender</b>	Male

## REFERENCE

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<b>Name</b>	<b>Prof. Dr. Muhammad Shahin Uddin</b>
<b>Relation</b>	Professor & Chairman, Dept. of ICT, MBSTU, Bangladesh
<b>Email address</b>	shahin.uddin@mbstu.ac.bd
<b>Phone</b>	+8801759852318

<b>Name</b>	<b>Dr. Sajjad Waheed</b>
<b>Relation</b>	Professor, Dept. of ICT, MBSTU, Bangladesh
<b>Email address</b>	swaheed.iu@gmail.com
<b>Phone</b>	+8801787064807