

CURRICULUM-VITAE

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Department of Computer Science and Engineering
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Research Gate: https://www.researchgate.net/profile/M_Robiul_Hoque
Google Scholar: https://scholar.google.com/citations?hl=en&user=GGniDIUAAAAJ

Research Interest:

- Context-Aware System
- Smart Space
- Ubiquitous Computing
- Wireless Sensor Network
- Image processing
- Speech processing

Personal Profile:

Name	**: Dr. Md. Robiul Hoque**
Father's Name	: Md. Abdul Bari Malita
Mother's Name	: Rokeya Begum
Permanent Address	: Vill.: Khash Bagunda, P.O.: Ail Hash Laksmipur, P.S.: Alamdanga, Dist.: Chuadanga, Bangladesh.
Date of Birth	: 4th January,1978
Nationality	: Bangladeshi
Marital Status	: Married
Religion	: Muslim

Educational Qualification:

PhD (2012-2016):

Institution : Department of Electronic Engineering
Kwangwoon University, Seoul, The republic of Korea.
Year of Pass : 2016
Result : **Awarded**
Thesis Title : *A study of the development of middleware architecture for context-aware system*

M. Sc. (Thesis) (2000-2001):

Institution : Department of Computer Science and Engineering
Islamic University, Kushtia-7003, Bangladesh.
Year of Examination : 2001 (Held on 2004)
Course duration : 01 Year
Result : **First Class** (2nd position in the order of merit)
Marks obtained : 70.67%
Thesis Title : *A medium vocabulary speech to text system*

B. Sc.(Honours) (1996-2000):

Institution : Department of Computer Science and Engineering
Islamic University, Kushtia-7003, Bangladesh.
Year of Examination : 2000 (Held on 2003)
Course duration : 04 Year
Result : **First Class** (2nd position in the order of merit)
Marks obtained : 68.08%

H. S. C. (Science Group):

Institution : Kushtia Govt. College, Jessore Board, Bangladesh
Year of Examination : 1995
Course duration : 02 Year
Result : **First Division**
Marks obtained : 80.50%

S. S. C. (Science Group):

Institution : Ail Hash Laksmipur High School, Jessore Board, Bangladesh
Year of Examination : 1993
Course duration : 10 Year
Result : **First Division**
Marks obtained : 78.40%

Professional Experience:

Teaching : *Professor,* ***06, March 2020 ~ till now,***
Associate Professor, ***06, March 2017 ~ 05, March 2020,***
Assistant Professor, ***03, September 2008 ~ 05, March 2017,***
Lecturer, ***03, September 2005 ~ 02, September 2008 ,***
Department. of Computer Science & Engineering. Islamic University, Kushita-7003, Bangladesh

Course taught : Artificial Intelligence, Digital Signal and Image Processing, Data Communications, Telecommunications, Wireless Communication, Digital Electronics, Electricity and Magnetism, Electrical network, Data Structures; Algorithm, Discrete mathematics, Advance Database Management, System, Microprocessors, Parallel Processing, Multimedia etc.

Programming Skill : C, C++, Java, Python, Visual Basic, Oracle, FoxPro, Matlab.

Language Proficiency

- Bangla (Native Language)
- English (Fluent in Speaking, reading & writing)
- Used English as the medium of instruction & examination in graduate, postgraduate level.

Projects:

2018 – 2019 (Completed)	• Title: Development of context-aware smart personal office room. • This research is carried out under the research grant which is provided by UGC
2020 – 2021 (Completed)	• Title: Design and Development of a Smart Conference Room: A Case Study for Academic Project Defense Automation • This research is carried out under the research grant which is provided by UGC
2024-2025 (Completed)	• Design and Development of a Smart Car Navigation System • This research is carried out under the research grant which is provided by UGC
2024-2026 (Completed)	• Title: Training on "Digital Skills for Students" under Enhancing Digital Government and Economy (EDGE) project. • This project is carried out under the fund which is provided by ICT Division and BCC.

Publications:

Journal Papers:

[1] Md. Jahangir Alam, Md Habibur Rahman, Md. Arju Hossain, **Md. Robiul Hoque** and Md Aktaruzzaman, "*Bioinformatics and Systems Biology Approaches to Identify the Synergistic Effects of Alcohol Use Disorder on the Progression of Neurological Diseases*", Neuroscience, Volume 543, Pages 65-82, (2024), IF 2.9.

[2] Sanjida Ara Mousumi A. O. M. Asaduzzaman, Md. Mojahidul Islam and **M. Robiul Hoque**, "*Context-Aware Tourist Guide: A Rule based Approa*ch", Int. J. Advanced Networking and Applications Volume: 16 Issue: 01 Pages: 6270– 6274 (2024) .

[3] Md. Ali Hasan, Md. Jakir Hossen, **M. Robiul Hoque,** and M. Humayun Kabir1, "*IoT Based Environment Controller for Mushrooms Cultivation*", Pakistan Journal Of Emerging Science And Technologies (PJEST),Vol. 3(1), June, 2022.

[4] **M. Robiul Hoque**, Shomako Bosu, M. Humayun Kabir, and Md. Aktaruzzaman, "*Context-Aware System for Indoor Localization*", Computer Reviews Journal, ISSN: 2581-6640, Vol-6, No.-01, April, 2020.

[5] **M. Robiul Hoque**, M. Humayun Kabir, "*Context Management Framework for Context-Aware Service*", Journal of Applied Science and Technology, Vol-11, No.-01, PP.30-36, February 2019, Islamic University, Kushtia, Bangladesh.

[6] M. Mahabubur Rahman, S M Sohel Rana, Khan M. Nasir Uddin, **M. Robiul Hoque**, M. Humayun Kabir, "*Development of IoT Cloud based Environment Control and Monitoring System using Raspberry Pi*", Journal of Applied Science and Technology, Vol-11, No.-01, PP.46-56, February 2019, Islamic University, Kushtia, Bangladesh.

[7] S M Sohel Rana, **M. Robiul Hoque**, M. Humayun Kabir, "*Evaluation of Security Threat of ZigBee Protocol to Enhance the Security of ZigBee based IoT Platform*", Journal of Applied Science and Technology, Vol-11, No.-01, PP.37-45, February 2019, Islamic University, Kushtia, Bangladesh.

[8] **M. Robiul Hoque**, M. Humayun Kabir and Sung-Hyun Yang, "*Development of a Cooperative Middleware to Provide Context-Aware Service in Smart Home"* International Journal of Smart Home, ISSN: 1975-4094, Vol. 11, No. 5, pp. 33-40, May, 2017. http://www.sersc.org/journals/IJSH/

[9] Hyun-Wook Kim, **M. Robiul Hoque**, Hyungyu Seo, and Sung-Hyun Yang, "*Development of Middleware Architecture to Realize Context-Aware Service in Smart Home Environment*", Computer Science and Information Systems, Vol. 13 (2), pp. 427-452, June, 2016. ISSN: 1820-0214, 2016, (**SCIE**)

[10] **M. Robiul Hoque**, M. Humayun Kabir, Hyungyu Seo, and Sung-Hyun Yang, "*PARE: Profile-Applied Reasoning Engine for Context-Aware System*", International Journal of Distributed Sensor Networks, SAGE Publishing, Vol. 12(7), pp. 1-11, July, 2016. ISSN: 1550-1329, EISSN: 1550-1477, (**SCIE**)

[11] Sung-Hyun Yang, M. Humayun Kabir, and **M. Robiul Hoque**, "*Mathematical Modeling of Smart Space for Context-Aware System: Linear Algebraic Representation of State-Space Method based Approach*" Mathematical Problems in Engineering, Hindawi Publishing Corporation, vol. 2016, pp. 1-8, 2016. ISSN: 1024-123X (Print), 1563-5147 (Online), (**SCIE**)

[12] M. Humayun Kabir, **M. Robiul Hoque**, Hyungyu Seo, Sung-Hyun Yang, "*Boolean Control Network Based Modeling for Context-Aware System in Smart Home*," International Journal of Smart Home, ISSN: 1975-4094, Vol.10, No.4, pp. 65-76, April, 2016. (SCOPUS)

[13] M. Humayun Kabir, **M. Robiul Hoque**, Sung-Hyun Yang, "*Implementation of Boolean Control Network Based Intelligent System in Smart Home,*" International Journal of Smart Home, ISSN:1975-4094, Vol.10, No.3, pp. 285-292, March, 2016. (SCOPUS)

[14] M. Humayun Kabir, **M. Robiul Hoque**, Keshav Thapa, and Sung-Hyun Yang, *"Two-Layer Hidden Markov Model for Human Activity Recognition in Home Environments"* International Journal of Distributed Sensor Networks, Hindawi Publishing Corporation, vol. 2016, pp. 1-12, 2016. ISSN: 1550-1329 (Print), 1550-1477 (Online), 2016. (**SCIE**)

[15] M. Humayun Kabir, **M. Robiul Hoque**, Hyungyu Seo, and Sung-Hyun Yang, "*Machine Learning Based Adaptive Context-Aware System for Smart Home Environment*" International Journal of Smart Home, ISSN: 1975-4094, Vol. 9, No.11, pp. 55-62, November, 2015. (SCOPUS)

[16] **M. Robiul Hoque**, M. Humayun Kabir, Dong-Hyuk Lim, and Sung-Hyun Yang, "*Middleware-based Cooperative Context Dissemination for Smart Home Application"* International Journal of Smart Home, ISSN: 1975-4094, Vol. 9, No. 10, pp. 9-14, October, 2015. (SCOPUS)

[17] M. Humayun Kabir, **M. Robiul Hoque**, "*Context-Aware System Modeling based on Boolean Control Network*" Open Journal of Applied Science, ISSN: 2165-3925. Vol. 5, pp. 661-668, November, 2015.

[18] **M. Robiul Hoque**, M. Humayun Kabir, Keshav Thapa, and Sung-Hyun Yang, "*Ontology-based Context Modeling to Facilitate Reasoning in a Context-Aware System: A Case Study for the Smart Home"* International Journal of Smart Home, ISSN: 1975-4094, Vol.9, No. 9, pp. 151-156, September, 2015. (SCOPUS)

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[20] Won-Yong Shin, M. Humayun Kabir, **M. Robiul Hoque**, and Sung-Hyun Yang, "*Development of an Edge-Based Algorithm for Moving-Object Detection Using Background Modeling*" Journal of information and communication convergence engineering, vol. 12(3), pp. 193-197, sep. 2014. (Print ISSN: 2234-8255 online ISSN: 2234-8883)

[21] M. Humayun Kabir, **M. Robiul Hoque**, Kangji Lee, Chang-Won Park, and Sung-Hyun Yang, "*The Development of a Modular Platform for Convergence Service in Home Network*" International Journal of Smart Home, (Scopus, EI Compendex), ISSN: 1975-4094, vol. 8, No. 4, pp. 151-164, 2014.

[22] Md. Mahfuzur Rahman, **Md. Robiul Hoque,** and M. Babul Islam, "*Parameter Compensation for Mel-LP based Noisy Speech Recognition*" Research Journal of Information Technology 4(1) 7-12, 2012, ISSN: 2041-3106 © Maxwell Scientific Organization, 2012

[23] Md. Ahaduzzaman Khan, Dr. Ahsan-UL-Ambia, Md. Ali Hossain, and **Md. Robiul Hoque**, *"A Simulation Study for Electrical Impedance Tomography"*, International Journal of Computer and Information Technology (IJCIT), ISSN 2078-5828 (print), 2218-5224 (online), Volume 02, Issue 02, pp 54-61, 2012

[24] **Md. Robiul Hoque** and Md. Rashed-Al-Mahfuz, *"A New Approach in Spatial Filtering to Reduce Speckle Noise"* International Journal of Soft Computing and Engineering (IJSCE), ISSN: 2231-2307, Web: www.ijsce.org, Volume-1, Issue-3, July 2011, PP 29-32.

[25] Md. Aktaruzzaman, Md. Farukuzzaman Khan, **Md. Robiul Hoque**: "*Degenerated lower chain for segmentation of cursive bangali handwritten numerals*", Journal of Applied Science and Technology, Vol-05, No.-02, PP.133-140, June 2008, Islamic University, Kushtia, Bangladesh.

[26] **Md. Robiul Hoque**, Md. Farukuzzaman Khan, Md. Aktaruzzaman, Dr. Md. Babul Islam, "*A medium vocabulary speech to text system*". Journal of Applied Science and Technology, Vol-05, No.-01, PP.81-86, December 2007, Islamic University, Kushtia, Bangladesh.

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[28] Md. Farukuzzaman Khan, Md. Aktaruzzaman, **Md. Robiul Hoque**, Md. Monirul Islam: "*System development for optical character recognition in Bangla language*", Journal of Applied Science and Technology, vol-1, Islamic University, Kushtia, Bangladesh, June 2003.

Conference Proceedings:

[1] **M. Robiul Hoque**, M. Humayun Kabir, Toshiro Minami, Sung-Hyun Yang, "*Ontology-based Context Modeling for Smart Home Domain*", Proceedings of the 1st International Joint Conference on Convergence (IJCC 2015), Vietnam, 4-8 February, 2015, pp.5-7, ISSN:2288-6060.

[2] **M. Robiul Hoque**, M. Humayun Kabir, Goreti Marreiros, Sung-Hyun Yang, "*Cooperative Context Dissemination in Smart Home System: A Middleware Based Approach*", Proceedings of the 1st International Joint Conference on Convergence (IJCC 2015), Vietnam, 4-8 February, 2015, pp.43-45, ISSN: 2288-6060.

[3] M. Humayun Kabir, **M. Robiul Hoque**, Sung-Hyun Yang, "*Modeling of a Context-Aware System for Smart Spac*e", Proceedings of the 1st International Joint Conference on Convergence (IJCC 2015), Vietnam, 4-8 February, 2015, pp.8-10, ISSN: 2288-6060.

[4] **M. Robiul Hoque,** Jun-Hwan Jang, Sung-Hyun Yang, *" A middleware Architecture to Realize Smart Home Service"* The 2nd International Symposium on Advanced and Applied Convergence(ISAAC 2014), Jeju, Republic of Korea,13-16 November, 2014, pp. 120-123.

[5] M. Humayun Kabir, **M. Robiul Hoque,** Sung-Hyun Yang, "*Implementation of Boolean Control Network Based Intelligent System in Smart Home Environment"* The 2nd International Symposium on Advanced and Applied Convergence(ISAAC 2014), Jeju, Republic of Korea,13-16 November, 2014.

[6] **M. Robiul Hoque**, M. Humayun Kabir, Jun-Hwan Jang, Sung-Hyun Yang, "*Middleware Aided Context-Aware Service for Smart Home",* The 18th IEEE International Symposium on Consumer Electronics, pp. 510-511, www.isce2014.org, Jeju, Korea, 22-25 June, 2014.

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[8] Jun-Hwan Jang, Wonyong Shin, Bonjae Koo, **M. Robiul Hoque**, Sung-Hyun Yang, "*Development of Profiles for Context-Aware System in Smart Home Environment and Its usage",* Conference on Information and Communication Engineering, www.kiice.org, ISSN: 2092-8017, Vol. 18, no. 1, pp. 369, Sinjae-Gan, Dong Yang University, Korea, 30-31 May, 2014.

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