



## CURRICULUM-VITAE

**MD. ROBIUL HOQUE, PhD ( South Korea)**  
**Professor**

Department of Computer Science and Engineering  
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Research Gate: [https://www.researchgate.net/profile/M\\_Robiul\\_Hoque](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** : 4<sup>th</sup> 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** (2<sup>nd</sup> 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** (2<sup>nd</sup> 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.

**Publications:**

**Journal Papers:**

- [1] 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.
- [2] **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.
- [3] **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.

- [4] 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.
- [5] 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.
- [6] **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/>
- [7] 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)
- [8] **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)
- [9] 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)
- [10] 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)
- [11] 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)
- [12] 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)
- [13] 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)
- [14] **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)
- [15] 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.

- [16] **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)
- [17] M. Humayun Kabir, **M. Robiul Hoque**, and Sung-Hyun Yang, “*Development of a Smart Home Context-aware Application: A Machine Learning based Approach*” International Journal of Smart Home, ISSN: 1975-4094, Vol.9, No.1, pp.217-226, Jan, 2015. (SCOPUS)
- [18] 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)
- [19] 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.
- [20] 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
- [21] 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
- [22] **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.ijscce.org, Volume-1, Issue-3, July 2011, PP 29-32.
- [23] 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.
- [24] **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.
- [25] Md. Mahfuzur Rahman, Md. Shohidul Islam, Md. Farukuzzaman Khan, Md. Akhtaruzzaman, Md. Khalid Morshed Khan, **Md. Robiul Hoque**, “*Design and development of speech controlled home automation system*”. Journal of Applied Science and Technology, Vol-05, No.-01, PP.71-74, December 2007, Islamic University, Kushtia, Bangladesh.
- [26] 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 Space*”, 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 18<sup>th</sup> IEEE International Symposium on Consumer Electronics, pp. 510-511, www.isce2014.org, Jeju, Korea, 22-25 June, 2014.
- [7] M. Humayun Kabir, **M. Robiul Hoque**, Bonjae Koo, Sung-Hyun Yang, “*Mathematical Modelling of a Context-Aware System Based on Boolean Control Networks for Smart Home*”, The 18<sup>th</sup> IEEE International Symposium on Consumer Electronics, pp. 505-506, www.isce2014.org, Jeju, Korea, 22-25 June, 2014.
- [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.

## References:

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