

Mohammad Asaduz-zaman Khan

Curriculum Vitae

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Education

- 2015–2018 **Ph.D. in Electronic & Information Engineering**,
The Hong Kong Polytechnic University, Hong Kong. CGPA – 3.8/4.0.
2018 world QS ranks: 56 (engineering & technology); 95 (overall).
- 2005–2007 **M.E. in Information & Telecommunication Engineering**,
INHA University, Incheon, South Korea.
CGPA – 3.75/4.0.
- 1997–2004 **B.Sc.(Hons) in Applied Physics, Electronics & Communication Engineering**,
University of Dhaka, Bangladesh.
Result – First Class.
- 1995–1997 **H.S.C., Notre Dame College, Dhaka, Bangladesh.**
Result – First Division.
- 1993–1995 **S.S.C., Ratandia R. K. High School, Bangladesh.**
Result – First Division.

Work experiences

- August 2015 – **Teaching assistant (6 hours per week)**,
May 2018 *Department of Electronic & Information Engineering, The Hong Kong Polytechnic University.*
Responsibilities:
 - Conducting tutorials, marking tests/homework scripts, guiding project students.
 - Assisting in the labs of mobile radio communication, communication systems, microcontrollers, computer networks, and information technology.
- May 2007 – **Assistant Professor & Coordinator**,
August 2015 *Southeast University, Department of Electrical & Electronic Engineering, Dhaka, Bangladesh.*
Taught courses:
Mobile Communications, Electronics Device & Circuits II, Electromagnetic Fields and waves, Optical fiber communications, Measurement and Instrumentation.
- March 2005 – **Research Assistant**,
February 2007 *Telecommunication Engineering Lab, Inha University, South Korea.*
Responsibilities:
 - Standardization, Analysis of current research trends.
 - Writing papers and Project reports.

Publications

Articles in a journal

- [J1] Y. I. Wu, K. T. Wong, **M. A. Khan**, C. J. Fulton, Wai-Yip Tam, and G. P. Arada, "Phenomenological Study of the Mutual Coupling Among Vertical Dipoles Spaced Uniformly on a Horizontal Circle," *under review.*
- [J2] **M. A. Khan**, and K. T. Wong "Phenomenological Study of the Mutual Coupling Among Vertical Dipoles on a UCA with Inter-dipole Spacing 0.2λ to 1.0λ ," *under review.*

- [J3] **M. A. Khan**, and K. T. Wong "Phenomenological Study of the Mutual Coupling Among Dipoles Oriented Radially on a Circle," *under review*.
- [J4] **M. A. Khan**, "Cross-layer energy efficient MAC protocol for UWB Wireless Body Area Network," *Southeast University Journal of Science and Engineering (SEUJSE)*, vol. 6, no. 2, pp. 22–24, December 2012.
- [J5] M. E. Hoque, **M. A. Khan**, A. Al Parvez, Xizhi An, Kyung Sup Kwak, "An Energy Consumption model for IR-UWB Wireless Sensor Networks," *The Journal of Korean Institute of Communication Sciences (KICS)*, vol. 32, no. 6B, pp. 316–324, June 2007.
- [J6] **M. A. Khan**, A. Al Parvez, M. E. Hoque, Xizhi An, Kyung Sup Kwak, "Analysis of Energy Consumption and Sleeping Protocols in PHY-MAC for UWB Networks," *The Journal of Korean Institute of Communication Sciences (KICS)*, vol. 31, no. 12B, pp. 1028–1036, December 2006.
- [J7] A. Al Parvez, **M. A. Khan**, M. E. Hoque, Xizhi An, Kyung Sup Kwak, "Cross-layer Design of Private MAC with TH-BPPM and TH-BPAM in UWB Ad-hoc Networks," *The Journal of Korean Institute of Communication Sciences (KICS)*, vol. 31, no. 12B, pp. 1189–1197, December 2006.
- [Articles from a conference proceeding](#)
- [C1] Y. Song, K. T. Wong, S. Khan, and **M. A. Khan**, "Azimuth-elevation direction finding, using three uni-axial velocity sensors as an arbitrarily sparse linear array," in *175th meeting of the Acoustical Society of America*, 143 (3), pp. 1872-1872, May 2018.
- [C2] **M. A. Khan**, "Comparison of TH-SS and DS-SS with sleeping protocol for LDR-UWB Network," in *IEEE International Conference on Electrical and Computer Engineering (ICECE 2012)*, Hotel Pan Pacific Sonargaon, Dhaka, Bangladesh, pp. 280–282, December 2012.
- [C3] **M. A. Khan**, A. Al Parvez, M. E. Hoque, Xizhi An, Kyung Sup Kwak, "Analysis of Energy Consumption and Sleeping Protocols in PHY-MAC for UWB Networks," in *IEEE International Conference on Advanced Communication Technology (ICACT)*, Phoenix Park, South Korea, pp. 858–863, February 2007.
- [C4] A. Al Parvez, **M. A. Khan**, M. E. Hoque, Xizhi An, Kyung Sup Kwak, "Performance Evaluation of TH-BPPM and TH-BPAM with Private MAC in UWB Ad-hoc Networks," in *IEEE International Conference on Advanced Communication Technology (ICACT)*, Phoenix Park, South Korea, pp. 852–857, February 2007.
- [C5] M. E. Hoque, **M. A. Khan**, A. Al Parvez, Xizhi An, Kyung Sup Kwak, "An Energy Consumption model for Time-Hopping IR-UWB Body Sensor Networks," in *International Technical Conference on Circuits Systems, Computers and Communications (ITC-CSCC)*, Busan, South Korea, pp. 749–750, July 2007.
- [C6] **M. A. Khan**, A. Al Parvez, M. E. Hoque, Xizhi An, Kyung Sup Kwak, "Impact of Sleep on PHY-MAC in UWB Networks," in *IEEE International Symposium on Communications and Information Technologies (ISCIT)*, Bangkok, Thailand, pp. 615–618, October 2006.
- [C7] **M. A. Khan**, A. Al Parvez, Kyung Sup Kwak, "Energy Consumption Analysis of an Optimal MAC Protocol for UWB Networks," in *Proceedings of Symposium of the Korean Institute of communications and Information Sciences*, Inha University, South Korea, pp. 1130–1133, November 2006.
- [C8] A. Al Parvez, **M. A. Khan**, M. E. Hoque, Xizhi An, Kyung Sup Kwak, "Performance of TH-BPPM and TH-BPAM in Cross-layer Protocol Implementation for UWB Ad-hoc Networks," in *Proceedings of Symposium of the Korean Institute of communications and Information Sciences*, Inha University, South Korea, pp. 1126–1129, November 2006.

[Presentations at a conference proceeding](#)

- [P1] Electrical & Computer Engineering (ICECE), 2012 7th International Conference – Hotel Pan Pacific Sonargaon, Dhaka, Bangladesh – December, 2012.

- [P2] Advanced Communication Technology, The 9th International Conference – Phoenix Park, South Korea – February, 2007.
- [P3] Communications and Information Technologies, 2006. ISCIT'06. International Symposium – Bangkok, Thailand – October, 2006.

Reviewer of these journals:

- [R1] IET Microwaves, Antennas & Propagation.
- [R2] IEEE Transactions on Aerospace and Electronic Systems.
- [R3] IET Signal Processing.
- [R4] Digital Signal Processing.

Awards

- 2015–2018 Research Studentship Scholarship from The Hong Kong Polytechnic University – for Ph.D. program.
- 2005–2007 Korean Govt. IT Scholarship from the Institute of Information Technology Advancement (IITA), Ministry of Information and Communications (MIC) of South Korea – for M.E. degree.
- 2005–2007 Full Tuition Scholarship from the graduate school of Information Technology and Telecommunications – for M.E. degree.

Degree Theses

- Ph. D.** – Phenomenological Modeling of Circular Arrays of Dipole-antennas.
- M. E.** – Analysis of Energy Consumption and Sleeping Protocols in PHY-MAC for UWB networks.
- B. Sc.** – Performance and Characteristics Evaluation of a Solar Cell.

Research Interests

RF, Microwave and Communication Technology, Antenna Array Signal Processing.
Electronics Circuit Design, Solar Cell, Photonics.
MAC Protocol Design for UWB based WPAN/WBAN.
Architecture of USN, Wireless AD-HOC Networks, Wireless Sensor Networks.

Command of these computer applications:

EMCoS VLab, MATLAB, LaTeX, NS2, C/C++, Assembly Language.

Language Proficiency

English (Fluent).
Bengali (Native).
Korean(Intermediate).

References

- o Available on request.