MD.AKBAR HOSSAIN

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Education

2007 to 2009
Masters of Science in Telecommunication Engineering
With Special Program "Honours Program in Research"
University of Trento, Italy
Result: 100 out of 110 (90.90%) (Italian Grading system)

2000-2004
Bachelor of Science in Electrical & Electronic Engineering
Islamic University of Technology (IUT)
The Organization of the Islamic Conference (OIC)
Gazipur-1704, Bangladesh
CGPA: 4.57/5.00 (First class with Honours)

1997-1999
Higher Secondary Certificate (H.S.C)
Comilla Board – Noakhali Govt. College
First Division with 80.5% marks, Science

1997 - 1987
Secondary School Certificate (S.S.C)
Comilla Board – Noakhali Zilla School,
First Division with 78.4% marks, Science.

Work Experience

Full Time
(01/01/2010 – 30/06/2010)
Research Associate
Department of Informatics
Technical University of Ilmenau, Germany
- Responsibilities: Develop an algorithm in order to optimize the **spectrum handoff latency in cognitive radio ad-hoc networks**.

Full Time
(16/08/2005 – 31/12/209)
Lecturer
Department of Electrical & Electronic Engineering
Chittagong University of Engineering & Technology (CUET)
Bangladesh.

- Responsibilities: Conducting undergraduate theory courses in the filed of communication engineering and co-supervising the project and thesis.

Full Time
(12/05/2005-12/08/2005)
Lecturer
Department of Electrical & Electronic Engineering
American International University of Bangladesh
Dhaka, Bangladesh
- Responsibilities: Conducting undergraduate theory courses in the filed of communication engineering and co-supervising the project and thesis.

M.Sc. Thesis

Title: **Coexistence of Next Generation Heterogeneous Wireless Networks by Using Cognitive Pilot Channel (CPC)**

Supervisor: Dr. Roberto Passerone, Assistant Professor, University of Trento, Italy

Co-supervisor: Dr. Abdur Rahim Biswas, Researcher, Center for Research and Telecommunication Experimentation for Network communities (**Create-Net Research**), Trento, Italy

B.Sc. Thesis

Title: **Remote Video Transfer and Control from PC to PC for Surveillance purpose**

Supervisor: Dr. Kazi Khairul Islam, Professor, Islamic University of Technology (IUT), Bangladesh

Publications

Journals:

1) Md. Rezaul Hoque Khan**, Akbar Hossain** "BER and SINR Performance of MC-CDMA System in Frequency-Selective Rayleigh Fading Channel," *Journal of Electrical Engineering, Institute of Engineers*, Vol. EE33, No. I & II, Bangladesh, December 2006.

2) Md. Rezaul Hoque Khan**,** G Hossain, **Akbar Hossain** "Designing Segmented Display for Persian (Western Farsi) Numerals," *Asian Journal of Information Technology (AJIT),* Volume 5 Number 4, pp 376-379, ISSN 1682 3915, Pakistan.

3) M.R.H.Khan, **A.Hossain**, A.H.M.R.Islam, J.B.Song "Comparative Analysis of CDMA Based Wireless Communication under Radio Propagation Enviornment," Computer *Science and Engineering Research Journal,* Department of Computer Science and Engineering, vol. 3 (2005), pp 6-11, ISSN 1990-4010, Bangladesh.

Conferences:

4) **Hossain, Md. Akbar**; Passerone, Roberto; , "Power Adaptive Cognitive Pilot Channel for Spectrum Co-existence in Wireless Networks," *Advanced Information Networking and Applications (AINA), 2011 IEEE International Conference on* , vol., no., pp.9-16, Biopolis, Singapore, 22-25, March 2011

5) **Hossain, Md. Akbar**.; Haque, S.A.; , "PAIZM-CPC: Enhancement of spectrum co-existence in wireless networks," *Computer and Information Technology (ICCIT), 2010 13th International Conference on* , vol., no., pp.567-572, Dhaka, Bangladesh, 23-25 Dec. 2010

6) Filo, M.; **Hossain, Akbar**.; Biswas, A.R.; Piesiewicz, R.; , "Cognitive pilot channel: Enabler for radio systems coexistence," *Cognitive Radio and Advanced Spectrum Management, 2009. CogART 2009. Second International Workshop on* , vol., no., pp.17-23, Aalborg, Denmark,18-20 May 2009

7) **Md. Akbar Hossain**, Md. Rezaul Haque Khan, "Energy Efficient MAC and Routing Protocol for ZigBee WSN-A Survey," *The First IEEE International Workshop on Next Generation Autonomous Storage and High Performance Computing (NGASHPC 2008) in conjunction with ICCCN 2008 IEEE Int'l Conf. on Computer Communications and Networks (ICCCN 2008)* Virgin Islands, USA, August 4-7, 2008 (Withdrawal after Acceptance)

8) Md. Rezaul Haque Khan, **Md. Akbar Hossain**, Md. Saddam Hossain Mukta*,* "ZigBee Cross Layer Optimization and Protocol Stack Analysis on Wireless Sensor Network For Video Surveillance," *International Conference on Electronics, Computer and Communication (ICECC 2008),* pp. 795-799, ISBN 984-300-002131-3,University of Rajshahi, Bangladesh, 27-30 June, 2008.

9) Md. Rezaul Haque Khan, **Md. Akbar Hossain**, A.S.M.Shihavuddin, "Reverse Link Performance of a Generalizad MC-CDMA Systwm for Multipath Fading Channel," *International Conference on Electronics, Computer and Communication (ICECC 2008),* pp. 800-803, ISBN 984-300-002131-3. University of Rajshahi, Bangladesh, 27-30 June, 2008.

10) Khan Md. Rezaul Hoque, Riaz Raihan Haque, **Md. Akbar Hossain**, M.S.Feroz Farazi, Gahangir Hossain, "Modeling and Performance of TCP in a MCCDMA System for 4G Communications," *10th International Conference of Computer and Information Technology (ICCIT 2007),* pp. 530-534, United International University (UIU), Bangladesh, 27-29 December, 2007.

11) **Md. Akbar Hossain**, Khan Md. Rezaul Hoque "IP Based Mobility Mnagemnet for Next Generation Wireless Networks," *International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE 2007),* pp. 444-447, Springer, Bridgeport, USA, 3-12 December, 2007.

12) Md. Rezaul Hoque Khan**, Akbar Hossain**, A H M Razibul Islam, Ju Bin *Song* "SINR Performance of Multicarrier CDMA System in Frequency-Selective Rayleigh Fading Channels," *International Conference on Information and Communication Technology ICICT 2007*, pp. 201-204, ISBN:984-32-3394-8, Dhaka, Bangladesh, 7-9 March 2007.

13) Md. Rezaul Hoque Khan, **Md. Akbar Hossain**, AHM Razibul Islam,"Management Information Systems (MIS) for Cellular Communication Network," *9th South Asian Management Forum (SAMF) 2006 conference,* pp. 159-164, Dhaka, Bangladesh, 24-25 February 2007.

Other Activities:

- **Shadow TPC member** Fifth International Workshop o Self-Organizing Systems (IWSOS 2011) 23 -24 February, 2011, Karlsruhe, Germany.

Referees

1. Dr. Roberto Passerone
   Faculty, Assistant Professor
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2. Dr. Gian Franco Dalla Betta
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   University of Trento
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3. Mr. Abdur Rahim Biswas
   Researcher
   Broadband & Wireless Access System Solutions
   Centre for Research and Telecommunication Experimentation for Network Communities (Create-Net)
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