

CURRICULUM VITAE

PERSONAL INFORMATION

Name: Mohammed Tarique

Nationality: Canada

Job Title: Associate Professor

Marital Status: Married

College: Engineering and Information Technology

Department: Electrical Engineering

Date of Birth: 11/02/1968 Moile Number: 0501216446

E-mail: m.tarique@ustf.ac.ae

EDUCATIONAL BACKGROUND

1. Doctorate

University: University of Windsor

Country: Canada
Date of Obtaining degree: 2007
Major: Communication

Minor:

Title: Cross Layer Design for Hierarchical Routing Protocols for Mobile Ad Hoc Networks

2. Master

University: Lamar University

Country: USA
Date of Obtaining degree: 2001

Major: Electrical Engineering

Minor:

Title: Not Applicable

3. Bachelor

University: Bangladesh University of Engineering and Technology

Country: Bangladesh Date of Obtaining degree: 1992

PROFESSIONAL EXPERIENCE						
From (year)	To (year)	Position	Employer	Country		
2011	2019	Associate Professor	University of Science and Technology of Fujairah (Former Ajman University)	UAE		
2007	2011	Assistant Professor	American International University	Bangladesh		
2003	2007	Graduate Teaching Assistant	University of Windsor	Canada		
2003	2007	Graduate Research Assistant	University of Windsor	Canada		
1999	2001	Teaching Assistant	Lamar University	USA		
1993	1999	Senior Engineering Officer	Beximco Pharmaceuticals	Bangladesh		

EDUCATIONAL EXPERIENCE				
Academic Year	Course Title	Academic Year	Course Title	
		2211 2212		
2011-2019	Electromagnetic Fields and	2011-2019	Principles of	
	Wave Propagation		Communication	
		2011-2019	Digital Signal Processing	
2011-2019	Communication and	2011-2019	Signals and Systems	
	Switching Networks			
2011-2012	Satellite Communication	2011-2019	Wireless Communication	
2011-2019	Microwave Engineering	2007-2011	Analog Electronics I	
2011-2019	Digital Communications	2007-2011	Analog Electronics II	
2013-2015	Antenna Design	2007-2011	Signals and Systems	
2007-2011	Cellular Mobile	2007-2011	Digital Communication	
	Communication			
2007-2011	Wireless Communications	2020-2021	Senior Seminar	
2020-2021	Engineering Management	2020-2021	Financial Management	
2020-2021	Sensors and			
	Instrumentation			

PUBLICATIONS

1. Books

Not Applicable

2. Book Chapters

Not Applicable

3. Journal Articles

Rumana Islam, Esam Abdel Raheem, and Mohammed Tarique, "A study of using cough sounds and deep neural networks for the early detection of Covid-19, " accepted for publication in Biomedical Engineering Advances, Elsevier Science.

Rumana Islam and Mohammed Tarique, "A Novel Convolutional Neural Networks based Pathological Voice Detection using Spectrogram and Chromagram," accepted for publication in the International Journal of Electrical and Computer Engineering

Mohammed Tarique and Rumana Islam, "Optimum Number of Neighbors for Resource-constrained Mobile Ad Networks," International Journal of Ad hoc, Sensors, and Ubiquitous Computing, vol. 12, no. 2, April 2021, pp. 1-14

Rumana Islam, and Mohammed Tarique, "Blind Source Separation Of Fetal ECG Using Fast lependent Component Analysis And Principle Component Analysis," International Journal of Scientific and Technology Research, vol. 9, no. 11, pp. 80-95

Rumana Islam, Mohammed Tarique, and Esam Abdel-Raheem, "A Survey on Signal Processing based Pathological Voice Detection Techniques," IEEE Access, Vol. 8, April 2020, pp. 66746-66776

Elnour, M. Tarique, D. Foyez, L. Hassan, and A. Rashed, "Location Aware Health Monitoring tem for Emergency Cases," International Journal of of Scientific and Technology Research, . 8, no. 21, January 2020, pp. 1247-1254,

Mohammed Tarique and Rumana Islam, "Performances of Ad hoc Networks under Deterministic and Probabilistic Channel Conditions: Cases for Single Path and Multipath

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2020

2018

2020

2020

	Routing Protocols", International Journal of Computer Networks and Communications, Vol. 10, No. 4, July 2018, pp. 1-21
2017	Henok Ali, Momem Odeh, Ahmed Odeh, Ali Abou El-Nour and Mohammed Tarique, "Unmanned Aerial Vehicular System for Greenhouse Gas Measurement and Automatic Landing", Network Protocols and Algorithms, Vol. 9, No. 3-4, December 31, 2017, pp. 56-75
2017	Mohamed Aboubakr, Ahmed Balkis, Ali-Abou ElNour, and Mohammed Tarique, " <i>Environmental Monitoring System by Using Unmanned Vehicular System</i> ", Network Protocols and Algoirthms, Vol. 9, No. 3-4, December 31, 2017, pp. 31-55
2017	Mohammed Tarique, "Selection of Optimal Beam Forming Algorithm for Mobile Ad hoc Networks", Wireless Engineering and Technologies, Vol. 8, January 24, 2017, pp. 20-36
2016	Hyder Khaleq, Ali Abu El-Nour, and Mohammed Tarique, "A Reliable Wireless Systems for Water Quality Monitoring and Level Control", Network Protocols and Algorithm, Vol.8. No. 3, October 30,2016, pp. 1-14
2016	Mohammed Tarique, "Optimum Wavelet Selection for Orthogonal Wavelet Division Multiplex (OWDM) Based Broadcasting System", Transactions on Networks and Communications, Vol. 4, No. 4, July 2016, pp. 1-12
2016	Muna Dahir, Alyaa Obaid, Aisha Ali, Amna Mohammad, Ali Abou ElNour, and Mohammed Tarique, "Mobile Based Robotic Wireless Path Controller", Network Protocols and Algorithms, Vol.8, No.2, June 2016, pp. 20-38
2016	Mohammed Tarique, "Performances of Orthogonal Wavelet Division Multiplex (OWDM) System Under AWGN, Rayleigh, and Ricean Channel Conditions", International Journal of Computer Networks and Communications, Vol. 8, No. 3, May 2016, pp. 93-105
2016	Mohammed Tarique and Mussab Saleh Muhammad, "Window Based Pulse Shaping Techniques for DVB-T System", Transactions on Networks and Communications, Vol.4, No.1, March 2016, pp. 25-37
2015	AKM Arifuzzaman, Rumana Islam, and Mohammed Tarique, "Window Based Smart Antenna Design for Mobile Ad hoc Networks Routing Protocol", International Journal of Wireless and Mobile Networks", Vol. 7, No. 4, August 2015, pp. 63-80
2015	Abrar Khamies, Shaikhah Rashed, Ali Abou El-Nour, and Mohammed Tarique, "ZigBee Based Optimal Scheduling for Home Appliances in the United Arab Emirates", Network Protocols and Algorithms, Vol. 7, No. 2, July 31,2015, pp. 60-79
2015	Fatmah ElZahra, Ameena Hatem, and Mohammed Tarique, "Fourier Transform Based Early Detection of Breast Cancer by Mammogram Image Processing", Journal of Biomedical Engineering and Medical Imaging, Vol. 2, No. 4, July 2015, pp. 17-32
2015	Amna Abdullah, Asma Ismail, Aisha Rashid, Ali Abou El-Nour, and <u>Mohammed Tarique</u> , " <i>Real Time Wireless Health Monitoring Applications Using Mobile Devices</i> ", International Journal of Computer Networks and Communications, Vol. 7, No. 3, May 2015, pp.13-30
2014	Shaikhul Arefin Khan and Mohammed Tarique," <i>Minimizing Vibration Effects in Satellite Laser Communication</i> ", International Journal of Multidisciplinary Sciences and Engineering, Vol. 5, No. 11, November 2014, pp. 12-20
2014	Thoraya Obaid, Halimaah Rashid, Abu El-Nour, M. Reehan, M.Saleh, and Mohamed Tarique, "ZigBee Technologies and Its Application in Wireless Home Automation System: A Survey", International Journal of Networks and Communications, Vol. 6, No. 6, July 2014, pp. 115-131

2014 Khalifa AlSharqi, Abdelrahim Abdelbari, Ali Abou-Elnour, and Mohammed Tarique, "ZigBee based Wearable Remote Healthcare Monitoring System for Elderly People" International Journal of Wireless and Mobile Networks, Vol. 6, No. 3, June 2014, pp. 53-67 A.H. Siddique, AKM Arifuzzaman, Rumana Islam, and Mohammed Tarique, "Performance 2014 Study of Coded and Uncoded IEEE 802.16d under Stanford University Interim (SUI) channels", International Journal of Computer Network and Communications, Vol. 6, No.2, March 2014, pp. 143-158 Thoraya Obaid, Halimaah Rashid, Abu El-Nour, M. Rehan, M. Saleh, and Mohamed 2013 Tarique,"ZigBee based Voice Controlled Wireless Smart Home System", International Journal of Wireless and Mobile Networks, Vol. 6, No. 1, February 2014, pp. 47-59 AKM Arifuzzaman, Rumana Islam, Mohammed Tarique, and Mussab Saleh Hassan "Effects 2013 of receiver filters on the performances DVB-T receiver", International Journal of Wireless and Mobile Networks, Vol. 5, No. 3, June 2013, pp. 103-118 AKM Arifuzzaman, Mussab Saleh, Mohammed Tarique, and Rumana Islam, "Effects of 2012 filters on DVB-T receiver performance under AWGN, Rayleigh, and Ricean fading channels", International Journal of Computer Networks and Communication, Vo. 5, No. 4, July 2013, pp. 87-101 Shaffatul Islam, Adnan Riaz, and Mohammed Tarique, "Performance analysis of routing 2013 protocols of mobile ad hoc networks for VoIP applications", International Journal of Selected Area of Communication, June 2012, pp. 26-33 Abdul Hashib Siddique, AKM Arifuzzaman, and Mohammed Tarique, "Performance 2012 study of IEEE 802.16d under Stanford University Interim (SUI) Channel", International Journal of Computer Networks and Communications, Vol. 5, No.2, 2013, pp. 137-152 Muhammad Shaffatul Islam, Md.Adnan Riaz, and Mohammed Tarique, "Performance 2011 Analysis of the Routing Protocols for Video Streaming Over Mobile Ad Hoc Networks", International Journal of Computer Networks and Communication, Vol.4, No.3, pp. 133-150,2012 Anwar Hossain and Mohammed Tarique, "Effect of Multi-Path Fading and Multiple 2009 Access Interference on Broadband CDMA Systems", International Journal of Communication Systems, John Wiley, June 24, 2011 Mohammed Tarique, Kemal E. Tepe, Sasan Adibi and Shervin Erfani, "A Survey on 2009 Multipath Routing Protocols for Mobile Ad Hoc Network", Journal of Network and Computer Applications , Vol. 32, No. 6, November 2009, Pages 1125-1143 Mohammed Tarique and Kemal E. Tepe, "Minimum Energy Hierarchical Dynamic 2017 Source Routing for Mobile Ad Hoc Network", Ad Hoc Networks, Vol. 7, No. 6, August 2009, Pages 1125-1135 Mohammed Tarique and Kemal E. Tepe, "A new hierarchical design for Wireless Ad Hoc Networks with Cross Layer Design", International Journal of Ad Hoc and Ubiquitous Computing, Vol. 2, No. ½, 2007, pp. 12-21 2011 Dhrupad Debnath, Chowdhury Akram, Rumana Islam, and Mohammed Tarique, "Minimizing Shadowing effects on Mobile Ad hoc Networks", International Journal of Selected Area on Telecommunications (IJSAT), October 2011, pp. 46-51 Nadia Nawshin, AKM Arifuzzaman, and Mohammed Tarique, "Demonstration 2012 and Performance ROF based OFDM-PON system for the next generation fiber

	optic communication", International Journal of Computer Networks and Communications, Vol. 4, No.1, January 2012, pp. 193-209
2012	Nateq Be-Nazir Ibn Minar and Mohammed Tarique," <i>Bluetooth Security Threats and Solution: A Survey</i> ", International Journal of Distributed and Parallel Processing, Vol. 3, No.1, January 2012, pp. 127-148
2011	Arifuzzaman AKM, Anwar Hossain, Nadia Hossain and Mohammed Tarique, "A Comparative Performance Analysis of MRC Diversity Receivers in OFDM System", International Journal of Distributed and Parallel Systems (IJDPS), Vol.2, No.4, July 2011, pp. 88-101
2010	Mohammed Tarique, Anwar Hossain, Rumana Islam, and C. Akram Hossain, "Issues of long-hop and short-hop routing in Mobile Ad hoc Networks: A comprehensive study", Network protocol and Algorithm, Vol. 2, No. 2, September 2010, pp. 107-131
2011	Nateq Be-Nazir Ibn Minar, and <u>Mohammed Tarique</u> , "A Secured Bluetooth Based Social networks", International Journal of Computer Applications, Vol. 26, No.1, July 2011, pp. 16-22
2011	Naurin Kadir, Ariq I. Aziz, Sarjana Chowdhury, Samiha Shamma, and Mohammed Tarique, "Minimizing vibration effects of satellite laser communications", International Journal of Computer Applications, Vol. 26, No. 6, July 2011, pp. 19-25
2011	Mohammed Tarique and Tanvir Hasan, "Impact of Nakagami-m Fading Model on Multi-hop Mobile AdHoc Networks", International Journal of Computer Applications, Vol. 26, No. 6, July 2011, pp. 5-12
2011	Nepal Narayan and Mohammed Tarique, "Performance Analysis of MIMO based WiMax System", International Journal of Selected Area of Telecommunication, July 2011, pp. 20-25
2010	Shaffatul Islam, Mamunur Rashid, and Mohammed Tarique, "Performance analysis of WiMax/WiFi system using different Codecs", International Journal of Computer Applications, Vol. 18, No. 6, March 2011, pp. 13-19
2008	Md. Anwar Hossain, <u>Mohammed Tarique</u> , and Rumana Islam," <i>Shadowing Effects on Routing Protocol of Multihop Ad Hoc Networks</i> ", International Journal of Sensor, Ad Hoc, Sensor and Ubiquitous Computing, Vol. 1, No. 1, March 2010, pp. 12-28
2008	Mohammed Tarique and Rumana Islam, "Minimum Energy Dynamic Source Routing Protocol for Mobile Ad hoc Networks", International Journal of Computer Science and Network Security, Vol. 7, No. 11, 2008, pp. 304-311
2005	Md. Anwar Hossain, Poompat Saengudomlert, and Mohammed Tarique, "Effects of Processing Gain on CDMA systems", The AIUB Journal of Science and Engineering, Vol. 7, N0.1, August 2008

4. Conferences

2021 Rumana Islam, Esam Abdel-Raheem, and Mohammed Tarique, "Early Detection of COVID-19 Patients using Chromagram Features of Cough Sound Recordings Machine Learning Algorithm," International Conference on 2019 Microelectronics, December 19-22, Cairo, Egypt. Rumana Islam and Mohammed Tarique, "Classifier based Earl Detection of 2018 Pathological Voice," International Symposium on Signal Processing and Information Technology, Ajman, December 2019 Dina Jamel, Mohammed Tarique, and Rumana Islam, "Voice Features Analysis for Early Detection of Voice Disability in Children", The IEEE International Conference on Signal Processing and Information Technology, Louisville, KY, USA, USA Louisville, KY, USA, USA 2014 Ali Abou-Elnour; A. Thabt; S. Helmy; Y. Kashf; Y. Hadad; M. Tarique; Ossama Abo-Elnor, "Integrated wireless sensor network and real time smart controlling and monitoring system for efficient energy management in standalone photovoltaic systems", Proceedings of Sensors and Smart Structure Technologies for Civil, Mechanical, and Aerospace System, San Diego, California, March 9, 2014 2012 Nadia Nawshin, A K M Arifuzzaman, Mohammed Tarique and ABM Siddique Hossain," Demonstration of a Novel OCDMA Based PON System for Next Generation Fiber Optic Communication", Proceedings of the Seventh International Conference on broadband and wireless computing, communication and applications, University of Victoria, Victoria, Canada, November 2012,pp. 573-577 2010 A K M Arifuzzman, Md. Anwar Hossain, Nadia Nowshin, and Mohammed Tarique, "Performance Comparison of Selection Combining Diversity Receivers for different modulation schemes in OFDM System", Proceedings of International Conference on Computer and Information and Information technology (ICCIT 2010), Dhaka, December 2010 2011 Shamendu Roy Rohit, Tasnim Alam, Shadeeb Hossain, Adnan Maqsud, Najia Hossain, Mohammad Tarique, and Maruf Hossain, "Experimental Analysis on Wireless Energy Transfer Via Strongly Coupled Magnetic Reasonance", Proceedings of International Conference on Engineering Research, Innovation and Education, (CERIE 2011), January 2011, Dhaka 2008 Tanveer Bhuiyan, Mohammed Tarique, and Rumana Islam, "Routing in MANET: Long hops vs short hops", Proceedings of International Conference on Electrical and Computer Engineering, December 2008, Dhaka, Bangladesh, pp. 600-605 2005 Mohammed Tarique, Kemal E. Tepe, and Mohammad Naserian, "A cross layer design for forwarding node selection in wireless Ad Hoc Networks", Proceedings of International Conference on Wireless Networks, Communication and Mobile Computing (IEEE Wirelesscom), 2005, Hawaii, USA, pp. 802-807 2005 Mohammed Tarique, Kemal E. Tepe, and Mohammad Naserian," Hierarchical Dynamic Source Routing: Passive Forwarding Node selection for Wireless Ad

Hoc Network", Proceedings of International Conference on Wireless and Mobile Computing, Networking and Communication (WIMOB), 2005, pp. 73-78 2005 Mohammed Tarique, Kemal E. Tepe, and Mohammad Naserian, "Energy Saving Dynamic Source Routing for Wireless Ad Hoc Network", Proceedings of the 3rd International Symposium, on Modeling and Optimization in Mobile Ad Hoc and Wireless Networks (WIOPT), 2005, Trenito, Italy, pp. 305-310 2005 Mohammad Naserian , Kemal E. Tepe, and Mohammad Tarique ," Routing overhead analysis for Wireless Ad Hoc Network", Proceeding of IEEE International Conference of Wireless and Mobile Computing, Networking and Communication (WIMOB), 2005, Montreal, Quebec, pp. 87-92 2005 Mohammad Naserian, Kemal E. Tepe, and Mohammad Tarique," On the connectivity of nodes in wireless ad hoc and sensor network", Proceeding of IEEE Canadian Conference on Electrical and Computer Engineering, Saskatoon, Canada, pp. 2073-2075 2005 Mohammad Naserian, Kemal E. Tepe, and Mohammad Tarique," HDSR: Hierarchical Dynamic Source Routing for Heterogeneous Wireless Mobile Ad Hoc Networks", Proceeding of the 10th IFIP International Conference on Personal Wireless Communication (PWC), Colmar, France, 2005, pp. 125-132 2005 Kemal E. Tepe, Mohammad Naserian, and Mohammad Tarique, "A New Hierarchical Architecture for Wireless Ad Hoc Network", In the Proceeding of Wireless 2004, Calgary, Alberta, pp. 246-254

PROFESSIONAL AND ACADEMIC ACTIVITIES

1. Professional Training

- CISCO Routers and Switches, St. Clare College, Windsor, Ontario, Canada
- Object Oriented Software Design, Lamar University, Beaumont Texas
- ISO 9001 Quality System, Beximco Infusions Limited, Bangladesh
- Time Management Workshop, Beximco Infusions Limited, Bangladesh
- Human Resource Management, Beximco Infusions Limited, Bangladesh

2. Workshops

- Accreditations Workshop, Ajman University of Science and Technology ABET, UAE
- Industrial Automation Workshop, Lamar University, Texas
- Sexual Harassment Workshop, Lamar University, Texas
- Time and Motion Study Workshop, Beximco Infusions Limited, Bangladesh
- Engineering Management Workshop, Beximco Infusions Limited, Bangladesh
- Project Management Workshops, Institute of Business Administration, Bangladesh

3. Master Theses Supervision

- Demonstration and performance study of different PON system for the next-generation optical fiber communication system.
- Performance improvement of the tracking system for satellite laser communication link.
- An analytical approach towards Bluetooth networking and its security architecture.

- A comparative analysis of network performances for different routing protocols under Nakagami-m fading channel model and its impact on multi-hop mobile ad hoc network(MANET).
- Minimizing shadowing effects in Mobile Ad hoc Networks (MANET).
- Performance evaluation of MIMO based WiMAX system.

4. Doctorate Theses Supervision

Not Applicable

MEMBERSHIP OF PERIODICALS AND SCIENTIFIC JOURNALS

- IEEE Transaction on Communication (Reviewer)
- Communication Systems (Reviewer)
- Sensor Networks (Reviewer)
- Ad Hoc Networks (Reviewer)
- International Journal of Computer and Communication Network (Reviewer)
- International Journal Distributed and Parallel Processing (Reviewer)
- International Journal of Wireless and Mobile Networks (Associate Editor)
- International Journal of Selected Area of Telecommunications (Editorial member)

AWARDS

- Ontario Graduate Scholarship (OGS), Ministry of Advanced Education and Skill Development, Provincial Government, Ontario, Canada
- Tuition Scholarship, University of Windsor, Windsor, Ontario, Canada
- Graduate Scholarship, University of Windsor, Ontario, Canada
- Research Scholarship, University of Windsor, Ontario, Canada
- Tuition Scholarship, Lamar University, Beaumont, Texas, USA
- Teaching Assistantship, Lamar University, Beaumont, Texas, USA
- Undergraduate Scholarship, Bangladesh University of Science and Technology, Bangladesh
- Rajshahi Board Scholarship, Bangladesh