

MUHAMMED MIAH, PhD

Interim Department Chair & Associate Professor
Department of Business Information Systems
College of Business
Tennessee State University
Nashville, TN
Tel: 615-963-7015, Email: mmiah@tnstate.edu

HIGHLIGHTS OF QUALIFICATIONS

- More than 15 years of teaching experience in university level
- About 5 years of experience as teaching /research assistant both in undergraduate and graduate levels
- Extensive research experience in database, data mining, data analytics, business intelligence, information retrieval/management, e-commerce/e-business, healthcare, medical/bioinformatics
- Extensive knowledge on data collection, data preparation, and analysis of data
- Proficient with research methodologies and preparing reports with findings and recommendations
- Industry experience in service-oriented database and software/web development
- Highly skilled in teaching of business/computer/management information systems courses
- Experienced in classroom, hybrid, and online teaching systems
- Demonstrated skills in mentoring and advising students, team leadership, project management, and advising student clubs
- Skilled in course/curriculum development and updating course contents to meet latest technological development and current industry requirements
- Demonstrated professional services in conference program committees, journal editorial boards, advisory boards, and committees for accreditation purpose

EDUCATION

Ph.D. in Computer Science

University of Texas at Arlington, TX

December 2009

Master in Business Administration (MBA)

Quinnipiac University, CT *(With distinction)*
Concentration: Computer Information Systems (CIS)

May 2003

M.S. in Computer & Information Science

University of New Haven, CT

January 2001

B.S. in Civil Engineering

Khulna University of Engineering & Technology, Bangladesh

December 1994

ACADEMIC AND RESEARCH EXPERIENCE

Interim Dept Chair & Associate Professor of BIS, Tennessee State University, TN 08/2021 - Present

- Serving as the Interim Department Chair for the Department of Business Information Systems.
- Teaching various courses including Data Mining, Business Data Analytics and Visualization, Information Systems, Business Intelligence, etc. at the Business Information Systems Department.
- Conducting research in data analytics, blockchain, pedagogy, databases, data mining, information systems, healthcare, education, and technology changes areas.
- Serving as a co-advisor for AITP Student Chapter at TSU.
- Serving in committees for the BIS Department, College of Business, and the University.

Associate Professor of BIS, Tennessee State University, TN **08/2018 – 08/2021**

- Teaching various courses including Data Mining, Business Data Analytics and Visualization, Information Systems, Business Intelligence, etc. at the Business Information Systems Department.
- Conducting research in data analytics, blockchain, pedagogy, databases, data mining, information systems, healthcare, education, and technology changes areas.
- Involved in several research projects and grant writing.
- Serving as a co-advisor for AITP Student Chapter at TSU.
- Serving in committees for the BIS Department, College of Business, and the University.

Associate Professor of CIS, Southern University at New Orleans (SUNO), LA **05/2016 – 05/2018**

- Taught various courses including Database Systems, Data Mining for Business Intelligence, Programming, Algorithms, Information Systems, etc. at the Computer Information Systems Department in graduate and undergraduate levels.
- Conducted research in databases, data mining, information systems, e-commerce, education, and technology changes areas.
- Involved in several research projects and grant writing.
- Served as a faculty advisor of Computer Information Systems Club.
- Served in several committees including couple of key committees for AACSB accreditation process for the College of Business and Public Administration.
- Served in the Faculty Senate Committee of the university.

Assistant Professor of CIS, Southern University at New Orleans (SUNO), LA **08/2010 – 05/2016**

- Taught various courses including Database Systems, Data Mining for Business Intelligence, Programming, Algorithms, Information Systems, etc. at the Computer Information Systems Department in graduate and undergraduate levels.
- Conducted research in databases, data mining, information systems, e-commerce, education, and technology changes areas.
- Involved in several research projects and grant writing.
- Served as a faculty advisor of Computer Information Systems Club.
- Served in several committees including couple of key committees for AACSB accreditation process for the College of Business and Public Administration.
- Served in the Faculty Senate Committee of the university.

Online Adjunct Summer Faculty, Saint Leo University, FL **Summer 2015 – Summer 2018**

- Taught online courses (Management of Information Security, Secure Software Design) in Summer 2015, 2016, and 2017.

Postdoctoral Researcher, University North Carolina at Chapel Hill, NC **12/2009 – 08/2010**

- Conducted research in the area of database, data mining and medical informatics in the project funded by NIH. In addition to database management and use of statistical tools for data mining, the main research included in the area of database, data mining and medical informatics. The main goal of the project was to identify the common psychological disorder among twins.

Research/Teaching Asst. (Ph.D. Student), University of Texas at Arlington, TX **01/2006 – 12/2009**

- Conducted research in the areas of database, data mining, information retrieval, knowledge and information management, e-commerce and e-business, and mining text, web and medical data. For text mining work, processed huge text and web datasets.
- Developed novel and innovative algorithms as well as pre-developed statistical and data mining tools and algorithms have been used for some research works.

- Collected data through online surveys and used for own research purpose.
- As a teaching assistant worked for various graduate and undergraduate courses including database systems, advanced database, data mining, data exploration, basic and advanced algorithms, computer programming and languages, data structures, etc.
- Developed two new application oriented courses (designing course contents, selection of text books, etc.) for Computer Science and Engineering department for non-CSE major students and professionals.

Lecturer of CIS, North South University, Dhaka, Bangladesh

05/2003 – 09/2005

- Taught as a Lecturer of Computer Information Systems (CIS) at the School of Business. Mainly taught CIS courses such as e-Commerce & Web Management, Computer/Management Information Systems, Database Management Systems, Programming & Languages, and Introduction to Computers courses as well as other business courses such as Introduction to Business, Principle of Marketing, and International Business.
- Served as Faculty Advisor for couple of student clubs as well as advised students for academic program.
- Was involved in designing and updating course contents to meet current industry requirements for several CIS courses.

INDUSTRY EXPERIENCE

Database and Web Developer, PERT Survey Research, CT

01/2001 – 05/2003

- Developed and administered Online Survey Generating and Data Analysis Database for Market Research
- Was fully responsible for designing, implementing and administering the database that contains more than 100 tables and millions of data, and lot of complex Stored Procedures and Triggers. Also worked on developing the web site with other web developers.
- Collected data through online survey as well as analyzed collected data using statistical software and tools.
- Started working from the scratch of the project. Was involved in planning and scheduling the whole development process, and hiring of people for the project.

Software Developer, CT Dept of Transportation, CT

01/2000 – 12/2000

- Developed Annual-Fee (Bill) & Account-Code-Documents generating database for Overweight/Oversize Permits Section. Created various types of reports using Microsoft Data Report and Crystal Reports. Also developed GUI to generate Dummy-Permit and Billing system.

REFERRED JOURNAL PUBLICATIONS

- Muhammed Miah, Santosh Venkatraman: *Artificial Intelligence in Healthcare: A Potential Game Changer*, Accepted to be published in the Global Journal of Business Disciplines.
- Muhammed Miah., Shah J Miah, and Santosh Venkatraman, S.: *BLOCKCHAIN: At a Glance Idea for Information Science Researchers*, Journal of Information and Optimization Sciences (JIOS), 42:7, 1589-1624, DOI: 10.1080/02522667.2021.1930644, 2021.
- Muhammed Miah: *Students' Perception on Synchronous Online Class using Zoom During COVID-19 Pandemic*, International Journal of Engineering Science and Computing (IJESC), 2021, Volume 11, Issue 9. DOI: 06.2016-67962946/2021.7499, 2021.
- Muhammed Miah, Shah J Miah: *A Data Analytics Study for Adverse Reactions in Blood Donors by Age, Gender, and Donation Type*, International Journal of Business Intelligence Research (IJBIR), 2021, Volume 12, Issue 1.
- Muhammed Miah: *Study of Blood Donation Campaign Communication Methods and Attributes of Donors: A Data Analytics Approach*, International Journal of Healthcare Management (IJHM), 2020. DOI: <https://doi.org/10.1080/20479700.2020.1836725>

- Muhammed Miah: *Study of Platelet Blood Donation Communication Frequency and Donor Demographics: A Data Analytics Approach*, International Journal of Management and Applied Science (IJMAS), 2020, Volume 6, Issue 4, pp. 85-91.
- Shah J Miah, Muhammed Miah, Jun Shen: *Editorial Note: Learning Management Systems and Big Data Technologies for Higher Education*, Education and Information Technologies, 2020, 25:725–730.
- Muhammed Miah: *Smallest Set for Reverse Selection Queries to Satisfy All*, International Journal of Science and Engineering Applications (IJSEA), March 2017, Volume 6, Issue 3, 70 - 122.
- Muhammed Miah, Adnan Omar, Chadrick Nelson: *Growth, Security, and Forecasts of e-Commerce and m-Commerce*, International Journal of Emerging Trends in Engineering Research (IJETER), Vol 4, No 1, January 2016.
- Muhammed Miah, Adnan Omar, Kiel Ellis: *Flipping a Class: Impact on Performance and Retention*, International Journal of Networks and Systems (IJNS), Vol 5, No 1, 2016.
- Adnan Omar, Udochukwu Tasi, Muhammed Miah: *Quality Computer Labs Promote Student Success*, World Journal of Engineering Research and Technology (WJERT), Vol 2, No 5, 2016.
- Adnan Omar, Udochukwu Tasi, Muhammed Miah: *Online Education and its Effect on the workforce*, International Journal of Advanced Engineering Research and Science (IJAERS), Vol 3, No 3, March 2016.
- Muhammed Miah, Adnan Omar: *Social Network for Course Delivery: A Case Study on Facebook Curriculum and Professional Development*, International Journal of Advanced and Innovative Research (IJAIR), March 2015.
- Adnan Omar, Muhammed Miah, Emmanuel Nkabyo: *Curriculum and Professional Development*, International Journal of Advanced and Innovative Research (IJAIR), March 2015.
- Adnan Omar, Muhammed Miah: *Risk Based Airport Security Approach*, International Journal of Computer Science: Theory, Technology and Applications, April 2014.
- Adnan Omar, Muhammed Miah, Rachid Belmasrou, *Effects of Technology on Writing*, International Journal of Science and Applied Information Technology, Volume 3, No.2, 2014.
- Muhammed Miah, Adnan Omar, Rachid Belmasrou: *Social Website for Buying, Selling, and Trading Textbooks in Campus*, International Journal of Information Systems and Computer Sciences, Volume 3, No.2, 2014.
- Muhammed Miah, Adnan Omar: *Bullying in School: Warnings and Solutions*, International Journal of advanced and innovative Research (IJAIR), Vol. 2, Issue 5, 2013.
- Muhammed Miah, Adnan Omar, Monique Allison-Golding: *Effect of Social Network in Adolescent Education*, Information Systems Education Journal (ISEDJ), 11(3) pp 90-100. <http://isedj.org/2013-11/> ISSN: 1545-679X. (A preliminary version appears in The Proceedings of ISECON 2012).
- Adnan Omar, Muhammed Miah, Khurram Bhutta: *Causes of Recession and their Effects – A Historical Perspective*, Journal of Computing Technologies, Volume 2, Issue 1, January 2013.
- Muhammed Miah: *Use of Data Mining in Emergency Evacuation Planning*, International Journal of Science and Applied Information Technology, Volume 1, No.1, March – April 2012.
- Adnan Omar, Muhammed Miah: *Impact of Technology on Teens' Written Language*, International Journal of Advanced Trends in Computer Science and Engineering, Volume 1, No.1, March – April 2012.
- Muhammed Miah, Adnan Omar: *Technology Advancement in developing countries during Digital Age*, International Journal of Science and Applied Information Technology, Volume 1, No.1, March – April 2012.
- Rachid Belmasrou, Muhammed Miah, Adnan Omar: *A Case Study: Enhancement of Business Process Management through System Automation*, Academy of Business Research Journal. (A preliminary version appears in Academy of Business Research Conference, 2011).

- Muhammed Miah: *Most Popular Package Design*, Journal of Information Systems Applied Research, 5(4) pp 4-10. <http://jisar.org/2012-5/> ISSN: 1946-1836. (A preliminary version appears in The Proceedings of CONISAR 2011)
- Muhammed Miah: *Maximizing Visibility in Skylines*, Journal of Information Systems Applied Research, 5(1) pp 36-50. <http://jisar.org/2012-5/> ISSN: 1946-1836. (A preliminary version appears in The Proceedings of CONISAR 2011)
- Muhammed Miah, Adnan Omar: *A Case Study on Awareness, Willingness and Utilization of Resources by Students at HBCU*, International Journal of Education and Development using ICT (IJEDICT), 2011, Vol. 7.
- Muhammed Miah: *Designing a Product to Maximize Visibility*, International Journal of Business, Marketing, and Decision Sciences (IJBMDs), 2010, Volume 3, Number 2, pp. 109-119. (A preliminary version appears in The Proceedings of IABPAD 2010)
- Muhammed Miah: *Selecting a Good Conference Location Based on Participants' Interests*, Information Systems Education Journal (ISEDJ), 9(4) pp 63-72. <http://isedj.org/2011-9/> ISSN: 1545-679X. (A preliminary version appears in The Proceedings of ISECON 2010)
- Muhammed Miah, Gautam Das, Vagelis Hristidis, Heikki Mannila: *Determining Attributes to Maximize Visibility of Objects*. IEEE Transactions on Knowledge and Data Engineering (TKDE) 2009, vol. 21 no. 7.

CONFERENCE/PROCEEDINGS PUBLICATIONS

- Muhammed Miah: *Blockchain Technology in Peer-to-Peer eLearning: Opportunities and Challenges*, EDSIGCON, November 2020, Virtual (Clear Water Beach, FL).
- Muhammed Miah: *Study of Platelet Blood Donation Communication Frequency and Donor Demographics: A Data Analytics Approach*, International Conference on Science, Technology and Management (ICSTM). January 2020, Dhaka, Bangladesh.
- Muhammed Miah: *Providing Hands-On Experience Using RapidMiner in Undergraduate Data Mining Class: Lessons Learned*, International Conference on Education and Information Systems, Technologies and Applications (EISTA). July 2019, Orlando, FL.
- Muhammed Miah, Evia Daniels: *Database Application Development for Day Care Center: A Teaching Case*, International Academy of Business and Public Administration Disciplines (IABPAD) Conference. July 2017, Memphis TN.
- Muhammed Miah, Adnan Omar: *Comprehensive Relational Database Design and Development for Local Church: A Teaching Case Study*, Education Special Interest Group of AITP Conference (EDSIGCON). November 2016, Las Vegas, NV.
- Muhammed Miah, Adnan Omar: *Maximal Reverse Selection Queries*, International Academy of Business and Public Administration Disciplines (IABPAD) Conference. October 2016, New Orleans, LA.
- Muhammed Miah: *Maximizing Reverse Selection Queries*, Abstracts in Education Special Interest Group of AITP Conference (EDSIGCON). November 2015, Wilmington, NC.
- Muhammed Miah, Adnan Omar, Volkan Karadeniz: *Use of Facebook as Course Delivery Media*, ISECON November, 2014, Baltimore, MD.
- Adnan Omar, Muhammed Miah, Emmanuel Nkabyo: *Aligning Academic Curricula to Industrial Needs*, ISECON November, 2014, Baltimore, MD.
- Muhammed Miah, Adnan Omar, Selen Sagiroglu: *Developing a Campus Social Website for Buying, Selling, and Trading Textbooks*, Information Systems Educators Conference (ISECON), Nov., 2013.
- Adnan Omar, Muhammed Miah: *Digital Evolution of the Written Language*, Information Systems Educators Conference (ISECON), November, 2013.
- Muhammed Miah: *Representing High-Volume High Dimension Data*, International Academy of Business and Public Disciplines (IABPAD) Conference, April 2013.

- Muhammed Miah, Adnan Omar, Monique Allison-Golding: *Effect of Social Network in Adolescent Education*, Information Systems Educators Conference (ISECON), 2012.
- Muhammed Miah: *Survey of Data Mining Methods in Emergency Evacuation Planning*, Conference on Information Systems Applied Research (CONISAR), 2011.
- Muhammed Miah: *Maximizing Visibility in Skylines*, Conference on Information Systems Applied Research (CONISAR), 2011.
- Muhammed Miah, Adnan Omar: *Digital Age: Technology Progress in Developing Countries*, Information Systems Educators Conference (ISECON), 2011.
- Muhammed Miah: *Most Popular Package Design*, Conference on Information Systems Applied Research (CONISAR), 2011 – **received distinguished paper award**.
- Rachid Belmasrou, Muhammed Miah, Adnan Omar: *A Case Study: Enhancement of Business Process Management through System Automation*, Academy of Business Research (ABR) Conference, 2011.
- Muhammed Miah, Adnan Omar: *Students' Awareness and Willingness to Use Available Resources at HBCUs: A Case Study*, IABPAD 2011.
- Muhammed Miah: *Designing a Product to Maximize Visibility*, International Academy of Business and Public Administration Disciplines Conference (IABPAD) 2010.
- Muhammed Miah: *Selecting a Good Conference Location Based on Participants' Interests*, Information Systems Educators Conference (ISECON) 2010.
- Muhammed Miah: *Maximizing Visibility of Objects*, PhD Workshop at IEEE International Conference on Data Engineering (ICDE) 2010.
- Muhammed Miah: *An Optimal Signature-Tree based Algorithm for Selecting Attributes for Maximum Visibility*, International Conference on Information Technology (ICIT) 2009.
- Muhammd Miah: *Improved k-NN Algorithm for Text Classification*, International Conference on Data Mining (DMIN) 2009.
- Muhammed Miah, Gautam Das, Vagelis Hristidis, Heikki Mannila: *Standing Out in a Crowd: Selecting Attributes for Maximum Visibility*. IEEE International Conference on Data Engineering (ICDE) 2008.

CONFERENCE /PROCEEDINGS PRESENTATIONS

- *Use of Blockchain Technology in Real Estates*, ICSEIT, March 2022, Dhaka, Bangladesh.
- *Blockchain Technology in Peer-to-Peer eLearning: Opportunities and Challenges*, EDSIGCON, November 2020, Virtual (Clear Water Beach, FL).
- *Study of Platelet Blood Donation Communication Frequency and Donor Demographics: A Data Analytics Approach*, International Conference on Science, Technology and Management (ICSTM). January 2020, Dhaka, Bangladesh.
- *Providing Hands-On Experience Using RapidMiner in Undergraduate Data Mining Class: Lessons Learned*, International Conference on Education and Information Systems, Technologies and Applications (EISTA). July 2019, Orlando, FL.
- *Database Application Development For Day Care Center: A Teaching Case*, International Academy of Business and Public Administration Disciplines (IABPAD)Conference. July 2017, Memphis TN.
- *Comprehensive Relational Database Design and Development for Local Church: A Teaching Case Study*, Education Special Interest Group of AITP Conference (EDSIGCON). November 2016, Las Vegas, NV.
- *Maximal Reverse Selection Queries*, International Academy of Business and Public Administration Disciplines (IABPAD)Conference. October 20, 2016, New Orleans, LA.
- *Maximizing Reverse Selection Queries*, Education Special Interest Group of AITP Conference (EDSIGCON). November 2015, Wilmington, NC.

- *Aligning Academic Curricula to Industrial Needs*, Information Systems Educators Conference (ISECON), November, 2014, Baltimore, MD.
- *Use of Facebook as Course Delivery Media*, Information Systems Educators Conference (ISECON), November, 2014, Baltimore, MD.
- *Developing a Campus Social Website for Buying, Selling, and Trading Textbooks*, Information Systems Educators Conference (ISECON), November, 2013, San Antonio, TX.
- *Representing High-Volume High Dimension Data*, International Academy of Business and Public Disciplines (IABPAD) Conference, April 18-21, 2013, Dallas, TX.
- *Effect of Social Network in Adolescent Education*, Information Systems Educators Conference (ISECON), November 1-4, 2012, New Orleans, LA.
- *Survey of Data Mining Methods in Emergency Evacuation Planning*, Conference on Information Systems Applied Research (CONISAR), November 4-5, 2011, Wilmington, NC.
- *Maximizing Visibility in Skyscrapers*, Conference on Information Systems Applied Research (CONISAR), November 4-5, 2011, Wilmington, NC.
- *Digital Age: Technology Progress in Developing Countries*, Information Systems Educators Conference (ISECON), November 4-5, 2011, Wilmington, NC.
- *Most Popular Package Design*, Conference on Information Systems Applied Research (CONISAR), November 4-5, 2011, Wilmington, NC.
- *Students' Awareness and Willingness to Use Available Resources at HBCUs: A case Study*, International Academy of Business and Public Administration Disciplines (IABPAD) Conference, January 4-7, 2011, Orlando, Florida, USA.
- *Designing a Product to Maximize Visibility*, International Academy of Business and Public Administration Disciplines (IABPAD) conference, October 21-24, 2010, New Orleans, Louisiana, USA.
- *Selecting a Good Conference Location Based on Participants' Interests*, Information Systems Educators Conference (ISECON), October 28-31, 2010, Nashville, Tennessee, USA.
- *Maximizing Visibility of Objects*, PhD Workshop at IEEE International Conference on Data Engineering (ICDE), March 1-6, 2010, Long Beach, California, USA.
- *An Optimal Signature-Tree based Algorithm for Selecting Attributes for Maximum Visibility*, International Conference on Information Technology (ICIT), December 21-24, 2009, Bhubaneswar, India.
- *Improved k-NN Algorithm for Text Classification*, International Conference on Data Mining (DMIN), July 13-16, 2009, Las Vegas, Nevada, USA.
- *Standing Out in a Crowd: Selecting Attributes for Maximum Visibility*. IEEE International Conference on Data Engineering (ICDE), April 7-12, 2008, Cancun, Mexico.

GRANTS

- Title: New Course Development on Blockchain Technology
Grant Organization: Morgan State University
Year Granted: 2019
Grant Amount: \$3000

PROFSSIONAL SERVICES

- Associate Editor, Information Systems Education Journal (ISEDJ), since 2016
- Editorial Board Member, Information Systems Education Journal (ISEDJ), 2012-2016
- Editorial Board Member, Journal of Information Systems Applied Research (JISAR) , since 2012
- Advisory Board Member, World Academy of Research in Science and Engineering (WARSE), since 2012
- Advisory Board Member, Institute of Research and Journals (IRAJ), since 2020
- Editorial Board Member, International Journal of Advanced Trends in Computer Science and Engineering (IJATCSE), since 2012
- Editorial Board Member, International Journal of Science and Applied Information Technology (IJSAIT), since 2012
- Editorial Board Member, International Journal of Computing, Communications and Networking (IJCCN), since 2012
- Editorial Board Member ,International Journal of Networks and Systems (IJNS), since 2012
- Editorial Board Member, International Journal of Wireless Communications and Network Technologies (IJWCNT), since 2012
- Editorial Board Member, International Journal of Advances in Computer Science and Technology (IJACST), since 2012
- Editorial Board Member, International Journal of Emerging Trends in Engineering Research (IJETER), since 2012
- Abstracts Chair, EDSIGNCON/CONISAR Conferences, 2017
- Papers Chair, EDSIGNCON Conference, 2016
- Abstracts Chair, EDSIGNCON/CONISAR Conference, 2015
- Papers Co-Chair, Information Systems Educators Conference (ISECON), 2014.
- Papers Co-Chair, Information Systems Educators Conference (ISECON), 2013.
- Assistant Papers Chair, Information Systems Educators Conference (ISECON), 2012.
- Host Chair, Information Systems Educators Conference (ISECON), 2012.
- Assistant Papers Chair, Information Systems Educators Conference (ISECON), 2011.
- Board Member, Education Special Interest Group (EDSIG), 2013-2015
- Board Member, Information Systems and Computing Academic Professionals (ISCAP), 2014-2016

AWARDS AND SCHOLARSHIPS

- Distinguished Scholar Award, European Journal of Scientific Research, 2021.
- Distinguished research paper award, CONISAR 2011.
- STEM Scholarship and Deans Fellowship during the PhD program at University of Texas at Arlington.
- Achieved MBA degree “With Distinction” from Quinnipiac University, CT, USA.
- Government of Bangladesh Scholarship during Bachelor program.

CERTIFICATIONS AND MEMBERSHIPS

- Microsoft Certified on *Database Design and Implementation* Using MS SQL Server.
- Microsoft Certified on *Installing, Configuring and Administering* MS SQL Server 2000.
- Member of Education Special Interest Group (EDSIG), 2020-2021.
- Member Association of Information Technology Professionals (AITP), 2010-2021