Dr. M.M.A. Hashem
Professor
Research Area Artificial/Computational Intelligence, Intelligent Robotics, IoT and Network Security, Machine Learning, Deep Learning, Health Informatics, Biomedical Instrumentation, Mobile/Cloud Computing, Soft Computing, etc

Biography

My Career Summary:

Motivating and talented Computer Science and Engineering Professor driven to inspire public and private university engineering students to pursue academic and professional excellence. About 35+ years of consistently striving to create a challenging and engaging outcome-based teaching, research, and learning environment in which students become lifelong scholastic professionals and learners—exceptional track records in academic, administrative, and research success with 120+ published articles. Organized–several times–both national and international Conferences, Workshops, and Symposiums and collaborated on several research works with global peers. Co-authored a book titled "Evolutionary Computations: New Algorithms and their Applications to Evolutionary Robots," Series: Studies in Fuzziness and Soft Computing, Vol. 147, Springer-Verlag, Berlin/New York, ISBN: 3-540-20901-8, (2004). Accomplished professional who designed and implemented a country-wide Research and Educational Network (REN) under a project of the Ministry of Education, Bangladesh funded by the World Bank.

My Intended Mission:

- I am one of the gifted, passionate, enthusiastic, and creative professors who is committed to being a catalyst in the discovery of one's potential, calling, and passion which will ultimately impact, equip, and empower the present and future generations.
- I am one of the fervent research collaborators who wish to strengthen the long-standing university-industry-government partnership necessary to safeguard our leadership in research and innovation to support our country's prosperity, security, and national goals.
- One of my greatest assets, besides my ability as a research lead and pedagogical expertise, is the ability to build a framework of understanding in the development of state-of-the-art OBE-based curriculum, quality research, and education infrastructure, as well as the development of ambidextrous personnel which supports these infrastructures for corporations on a global basis.

Education

Doctor of Philosophy
Saga University, 1-Honjo, Saga 840-8502,Japan(October 1996-September 1999)
Dissertation: Global Optimization Through a Class of Evolutionary Algorithms
Master of Engineering in Computer Science
Asian Institute of Technology (AIT), Bangkok,Thailand(May 1992-December 1993)
Thesis Title: Adaptive Resonance Theory : Characterization of ART1 and Development of Similarity Measures
Bachelor of Science in Engineering in Electrical and Electronic Engineering
Bangladesh Institute of Technology (BIT), Khulna (Now KUET),Bangladesh(April 1984-August 1988)
Thesis Title: Load Flow Study of the Western Grid of Bangladesh Power Development Board

Research Interest

Artificial/Computational Intelligence, Intelligent Robotics, IoT and Network Security, Machine Learning, Deep Learning, Health Informatics, Biomedical Instrumentation, Mobile/Cloud Computing, Soft Computing, etc

My research interests lie primarily in Artificial/Computational Intelligence, Intelligent Robotics, IoT and Network Security, Machine Learning, Deep Learning, Health Informatics, Biomedical Instrumentation, Mobile/Cloud Computing, Soft Computing, etc. Based on these fields, currently, I'm supervising several Undergraduate and Postgraduate (Master's and PhD) students. To date, 9 masters students earned master's degrees from my supervision and currently, I'm supervising two PhD students. We developed a multi-robot collaboration system exhibited at the BASIS Soft Expo 2007. We also have developed the cloud-based "Android assistant EyeMate for blind and blind tracking System".

Publication

Books

1S. Paul, M. A. I. Miah, S. Dasand a. M. Hashem, "Intelligent Systems", *Intelligent Systems* , Taylor and Francis, 2024 .

Publication

Books

2K. Watanabe and M. M. A. Hashem, *Evolutionary Computations* , Springer-VerlagDOI:https://doi.org/10.1007/978-3-540-39883-7, 2004 .