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Dr. Muhammad Nomani Kabir

Professor, Dept. of CSE & UG Program Coordinator

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Education

PhD (Dr.-Ing./Dr. in Engineering) in Computer Science in October 2007 from Technical University of Braunschweig, Germany **MSc Engineering** in Computational Sciences in Engineering (CSE) in 2003 from Technical University of Braunschweig, Germany. **Bachelor in Engineering** from KUET, Bangladesh in 2000. **HSC** in 1993 (First division) from Comilla Board. **SSC** in 1991 (First division) from Dhaka Board.

Work Experience

I joined United International University, Bangladesh on 28.01.2023. *Trust University, Barishal, (TUB) Bangladesh from 21.03.2021 to 25.01.2023:* working as an Associate Professor at the Faculty of Computer Science & Engineering . Furthermore, I was *Dean* of the Faculty of Science and Engineering during my tenure at TUB. *University Malaysia Pahang, Pahang, Malaysia from 01.06.2014 till 28.02.2021:* worked as an Assistant Professor at the Faculty of Computing . *Noor Center, Madinah Munawarah, Saudi Arabia from 12.08.2013 till 28.02.2014:* worked as a full-time researcher in a project on Authentication and Protection of Arabic Script Using Text-Based Watermarking. *Taibah University, Madinah Munawarah, Saudi Arabia from 06.03.2009 till 12.08.2013:* worked as an Assistant Professor at the Department of Computer Science . *Institute of Computational Mathematics and IAV GmbH, Germany from 08/2004 to 09/2007:* Developed codes for modeling, simulation and parameter identification of problems from Diesel engines using C++ and Matlab-Simulink. Developed nonlinear optimization software using C++ and ASCET-C for the automobile controller ETAS. *Institute of Heat and Fuel Technology from 06/2006 to 09/2007:* Research cooperation on CFD fire model development with the Institute of Heat and Fuel Technology, Faculty of Mechanical Engineering, Technical University Braunschweig, Germany. *IAV GmbH, Germany from 10/2003 to 07/2004:* Internship on Implementation of a nonlinear optimization algorithm in C at IAV GmbH, Gifhorn. *Institute of Scientific Computing of TU Braunschweig from 05/03-09/03:* Worked as a student research assistant at the where I worked with a graph partitioning software Chaco on a parallel computer with 40 processors. *Fraunhofer Institute for Surface Engineering and Thin Films, Germany from 2002-2003:* Worked as a student research assistant at the Fraunhofer Institute for Surface Engineering and Thin Films in Braunschweig where I developed a simulation program with C++/MFC for thin film development under physical vapor deposition (PVD) process. *Institute of Structural Engineering from 2001 to 2002:* Worked as a student research assistant on programming with C++ in the area of Finite Element Method (FEM) at the Institute of Structural Engineering of Technical University of Braunschweig.

Projects

RESEARCH GRANTS 1. Formulating a multi-objective optimization control model of hybrid vehicles to enhance fuel economy using combustion and regenerative brake power, supported by Ministry grant FRGS RDU1901150, Project leader, Duration: 1/09/2019 â€" 31/08/2021. 2. A new segmentation method in image processing of medical images for automated lung cancer diagnosis, University Grant No-RDU170397, Project leader, Duration: 15/05/2017 â€" 14/02/2020. 3. A new

global optimization algorithm based on stochastic approach to minimize software testing redundancy, supported by Ministry grant FRGS/1/2016/ICT01/UMP/02/3, Project leader, Duration: 1/06/2016 â€" 31/01/2019. 4. Multiple optical character recognition of Jawi script by generalized maximum entropy, supported by grant RDU1603102, Project member, Duration: 25/06/2016 â€" 24/06/2019. 5. Development of privacy and security protection protocol for wireless medical devices, supported by grant RDU1603105, Project member, Duration: 29/06/2016 â€" 24/06/2019. 6. Enabling vehicle with IoT: Sensor networks for reliable communications, supported by grant RDU1403167, Project member, Duration 25/12/2014 â€" 24/12/2016. 7. A Fast-Watermarking Algorithm for Authentication and Verification of Web-based Texts, grant RDU150391, Project leader, Duration: 01/10/2015 â€" 30/09/2017. 8. Authentication and protection of Arabic scripts using text-based watermarking, Supported by a grant from the Research Center (NOOR), Co-Investigator, Duration: 2012-2014. 9. Simulating the evacuation process of Al-Masjid Al-NabawiAlshareef, supported by a grant from the Deanship of Research, Taibah University, Project No. 432/469, Co-Investigator, Duration: 2011-2012. 10. Traffic Flow Analysis for the Center of Madinah, Supported by â€œThe Custodian of Two Holy Mosques Institute for Hajj Research, Project No. 43122004, Co-Investigator, Duration: 2010-2011. 11. Project: â€œDeveloping a New Optical Character Recognition Technique for Numerical Postal Zip Codesâ€ project supported by a grant from the Deanship of Research at Taibah University. Project No. 429/230, Consultant. Duration: 2008-2009.

MSc and PhD Supervision

Supervision of MSc and PhD students: 1. MSc: Thamer AlKhalil, Thesis Title â€“ Comprehensive Study among Software Engineering Methodologies for Security Assurance in AdHoc Network, Completed in 2021 from University Malaysia Pahang. Role: Main supervision. 2. PhD: Ouache Rachid, Development of Mathematical Models For Quantitative Risk Assessment In Oil And Gas Refineries, Completed in 2018 from University Malaysia Pahang. Role: Co-supervision. 3. PhD : Hocine Benseghir, Intelligence System And Simulation Model To Analysis Track Behaviors Employees at Industries, Completed in 2021 from University Malaysia Pahang. Role: Co-supervision.

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