Short Bio
of

Dr. Mohammed Moseeur Rahman

Dr. Mohammed Moseeur Rahman received his B.Sc. (Eng.) degree from Bangladesh Institute of Technology, Chittagong with distinction. At present it is known as CUET. He was awarded Institute Gold Medal for securing the highest percentage of marks among all the recipients of Bachelor's degree in the passing session. He earned his M.Sc. (Eng.) degree from the University of Alabama, USA, with CGPA 4.00 (out of 4.00). His master's research concentrated on hetero-associative pattern recognition, where he proposed a filter to detect and locate dissimilar group targets from given test images. It was published in a reputed journal. He has served as an assistant professor in two reputed private universities in Bangladesh for more than nine years. Later he obtained his Ph.D. in photonics from City University London, UK. His doctoral research was regarding finite-element based numerical analysis of sound and light interactions in optical waveguides. His work was published in many peer reviewed journals. When he was doctoral student, he served as visiting lecturer in the Department of Electrical and Electronic Engineering at City University, London. He also served as Post Doctoral Research Assistant in the Photonics Modelling Group under the Research Centre for Photonics and Instrumentation, City, University of London. At present he is serving as an associate professor in the Department of Electrical and Electronic Engineering in East West University, Bangladesh.

Dr. Mohammad Rezaul Karim

Dr. Mohammad Rezaul Karim is presently employed as a Professor in the Department of Electrical and Electronic Engineering (EEE) at Daffodil International University (DIU) in Dhaka, Bangladesh. Previously, he held positions at Chittagong Independent University (CIU), serving as a Professor in the School of Science and Engineering. Dr. Karim has earned his B.Sc. in EEE from KUET, followed by a M.Sc. in the same field from BUET. He completed his PhD in Photonics from City University of London, UK, in 2015 and subsequently served as a Post-Doctoral Research Fellow at the Photonics Research Center (PRC) at the University of Malaya (UM) in Kuala Lumpur, Malaysia, from 2017 to 2018. His professional journey began in 2000 at Bangladesh Telecom Ltd. as a System Engineer before transitioning to academia in 2004 as a Lecturer in the Department of Computer Science and Engineering (CSE) at the University of Science and Technology Chittagong (USTC) where he promoted to the position of Associate Professor in 2011. Dr. Karim has contributed approximately 70 research papers to both national and international journals and conferences, focusing on areas such as nonlinear optics and the design of nonlinear photonic devices for broadband supercontinuum generation. His-research interests include numerical modeling and simulation of optical planar waveguides and microstructured fibers at optical and THz frequencies and the application of finite-element method-based approaches for the characterization of photonic devices and frequency comb generation using non-silica optical glasses. Currently, he is also engaged in research on Deep Learning modeling for Photonic Device design. He aims to develop a Deep Learning model that can predict the nonlinear dynamics of an

optical pulse from its linear properties, similar to how the Generalized Nonlinear Schrodinger Equation works in numerical simulations.

Mr. Rakayet Rafi

Rakayet Rafi is a Lecturer in the Department of Electrical and Electronic Engineering (EEE) at Southeast University, Dhaka, Bangladesh. He received his B.Sc. and M.Sc. degrees in Electrical and Electronic Engineering from Chittagong University of Engineering and Technology (CUET), in 2022 and 2024, respectively. His research interests include nonlinear integrated photonics, supercontinuum generation, ultrafast optics, photonic crystal fibers, and machine learning-assisted design and optimization of photonic devices. He has authored and co-authored several peer-reviewed journal and conference publications, with research contributions published in internationally recognized journals. His current research focuses on leveraging computational photonics and artificial intelligence to advance broadband nonlinear optical sources and next-generation photonic technologies.