

### **Short Bio of**

#### **Dr. Md. Sahidul Islam**

Dr. Md. Sahidul Islam is an Assistant Professor in the Department of Mathematical and Physical Sciences at East West University, Dhaka, Bangladesh. He earned his Ph.D. in Mathematics from Kanazawa University, Japan with MEXT scholarship, an M.S. in Mathematics from the University of Chittagong, Bangladesh, and a B.Sc. in Mathematics from the same university. He was awarded National Science and Technology Fellowship for his M.S. thesis. His research focuses on theoretical and computational mathematics. He has a few journal publications and some conference proceedings.

### **Short Bio of**

#### **Dr. Sarwar Jahan**

Dr. Sarwar Jahan is an Associate Professor in the Department of Computer Science and Engineering at East West University. He completed his B.Sc. in Electrical and Electronics Engineering from Ahsanullah University of Science and Technology. He later earned his M.S. in Telecommunication Engineering from the University of Technology, Sydney, Australia. He obtained his PhD from the Department of Computer Science and Engineering at Jahangirnagar University, specialising in wireless communications. His research interests include Communication Engineering, network traffic analysis, and intelligent disease detection using artificial intelligence and machine learning techniques. He recently contributed to the publication of two Q1 journal papers through collaborative research. He is actively involved in academic research, teaching, and student supervision, contributing to advancements in wireless communication systems and data-driven healthcare solutions.

### **Short Bio of**

#### **Dr. Kazi Ekramul Hoque**

Dr. Kazi Ekramul Hoque is an Associate Professor in the Department of Arts & Sciences at the Ahsanullah University of Science and Technology (AUST), where he specializes in applied mathematics, scientific computing, and computational hemodynamics. He earned his Ph.D. in Applied Mathematics from the University of Dhaka, followed by an M.Sc. in Scientific Computing from the Heidelberg University through the prestigious Erasmus Mundus Mobility with Asia (EMMA) scholarship. He also completed his B.Sc. and M.Sc. in Mathematics from the University of Chittagong, building a strong foundation in theoretical and applied mathematical principles. His research focuses on computational

cardiovascular modeling, hemodynamic simulation, medical imaging-based diagnostics, and advanced numerical methods. Dr. Hoque has published extensively in high-quality international journals, contributing to areas such as fluid–structure interactions, nanofluid dynamics, and cardiovascular disease modeling. He has authored over 30 peer-reviewed publications in leading international journals and conference proceedings. He has been awarded several competitive research grants, including government-funded projects under the Ministry of Education, Bangladesh, as well as multiple internal and collaborative grants that support interdisciplinary work integrating mathematics with biomedical engineering. In addition to his research achievements, he is actively involved in mentoring students, supervising postgraduate research, and contributing to academic development within AUST. His work consistently bridges theoretical mathematics with real-world biomedical applications, positioning him as a key contributor to computational health research in Bangladesh.

### **Short Bio of**

#### **Dr. S.M. Afzal Hoq**

Dr. S.M. Afzal Hoq is an Assistant Professor at the International Islamic University Malaysia (IIUM) Gombak Campus in the Kulliyah of Engineering, where he specializes in advanced materials, applied mathematics, and computational mechanics. He holds a Doctor of Philosophy in Engineering from IIUM, an M.Sc. in Mathematics (Applied Group), and a B.Sc. in Mathematics from the University of Chittagong. His academic expertise spans nanomaterials and biomedical analysis, ordinary and partial differential equations, heat transfer, structural analysis, fluid–solid interactions, nanofluids, mathematical education, and the finite element method. Dr. Hoq teaches engineering mathematics and research methodology courses, and he supervises graduate students working on topics such as medical image segmentation, coronary blood flow modeling, mathematical transformations in historical foundations, and flow control in compressible regimes. He has contributed to numerous peer-reviewed publications on subjects including base drag control in high-speed flows, inverse estimation in thermal conductivity problems, nozzle flow control via D-shaped ribs, and systematic reviews on facial detection and recognition. He has authored over 15 peer-reviewed publications in leading international journals and conference proceedings. Alongside his teaching and supervision roles, Dr. Hoq’s research integrates advanced numerical methods with practical engineering and biomedical problems, reflecting his commitment to interdisciplinary scholarship and education.