

Researcher information

Principal Investigator: Dr SADIK RAHMAN

Dr. Sadik Rahman is a young environmental researcher and Assistant Professor at Department of Civil Engineering, East West University with over four years of university teaching, 1.5 years in the industry experience. He holds a B.Sc. and M.Sc. in Civil Engineering degrees from the Islamic University of Technology (IUT), specializing in drinking water quality monitoring and pollution remediation. Dr Rahman did his PhD in Civil Engineering (Major: Environmental Engineering) from Sultan Qaboos University in a strategic project of Oman. His doctoral research focused on innovative bio-electrochemical wastewater treatment and desalination mechanism with nano-material support to explore desalination alternative for middle eastern regions. Dr Rahman also worked in projects related to anaerobic digestion, and AI-driven environmental remediation. His research focus is Waste to resource (energy, desalination, valuables etc) conversion, Water treatment, monitoring and pollution control, life cycle analysis etc.

As a young researcher Dr. Rahman has published 17 peer-reviewed articles in high-impact journals among which Q1: 12, Q2: 1 and Q3: 3. His work has earned international recognition, including National research awards from the Ministry of Higher Education, Oman (2020–2024) and the GPCA award (2022, Dubai), Polish Membrane Society award etc. He also led a prize-winning solid waste management mobile application project and contributed to WHO water quality initiatives. He is actively involved in the outcome-based education (OBE) process in East West University for the WASHINGTON ACCORD accreditation by *BAETE*.

Internal Researcher 1_Dr Mohammad Manzurul Islam

Mohammad Manzurul Islam received his Ph.D. in Cybersecurity from Federation University Australia in 2021, M.Sc. in Internetworking from the University of Technology Sydney, Australia in 2013 and B.Sc. in Computer Science and Information Technology from Islamic University of Technology, Bangladesh in 2005. He is an Assistant professor at East West University Bangladesh. He served over 19+ years in many organisations, including universities (Monash University Australia, Federation University Australia, Canadian University Bangladesh, Stamford University Bangladesh) and IT industries (ZTE Corporation, Robi-Axiata Limited). His research interests include cybersecurity, machine learning, computer vision and IoT. He has authored 47 peer-reviewed publications, including 27 journal articles, 8 book chapters and 12 conference papers.

Internal Researcher 2_Prof. Dr. Md. Sohel Rana

Prof. Md. Sohel Rana received his Ph.D. in Statistics from the Department of Mathematics at Universiti Putra Malaysia. He completed his B.Sc. and M.Sc. in Statistics at the University of Rajshahi. Prior to joining East West University, he served as a Senior Lecturer at Universiti Putra Malaysia. He is currently a Professor in the Department of Mathematical and Physical Sciences at East West University. In addition, he holds the position of Executive Director at the East West University Center for Research and Training (EWUCRT).

Over the past 14 years of his academic career, Dr. Rana has taught a wide range of courses and has published more than 85 articles in international journals and conference proceedings. He has been invited to speak at several international conferences and has received silver and bronze medals in research competitions. His research interests include robust estimation methods, outlier detection, regression diagnostics, data mining and statistical machine learning, multivariate analysis, econometric methods, simulation, and bootstrapping techniques.

External Researcher_Dr. Md. Abdullah Al Mamun

Dr. Md. Abdullah Al-Mamun is an Associate Professor in the Department of Civil and Architectural Engineering at Sultan Qaboos University, Oman. He holds a PhD in Civil and Environmental Engineering from the National University of Singapore and a BSc from BUET. With academic and research experience spanning Singapore and Oman, Dr. Al-Mamun specializes in microbial electrochemical systems, wastewater treatment, and environmental monitoring. He has received national and international research grants and is multiple recipients of Oman's National Award for Environmental Research. He serves on editorial boards and scientific committees and has authored more than 100 peer-reviewed high impact publications.