

## Talk Title: Digital Health Inclusion to Achieve Universal Health Coverage

**Abstract:** Healthcare is a basic need of humans. However, it is the biggest challenge in a developing country, where many people are not getting basic healthcare due to lack of systems and resources. On the other hand, healthcare is about to enter a period of rapid transformation by utilizing Fourth Industrial Revolution Technologies. Longevity and the advance of new technologies and discoveries – as well as innovative combinations of existing ones – are among the many factors pushing patient empowerment, which is fundamentally changing how we prevent, diagnose and cure diseases. Rapid growth of digital technology plays a big role in the healthcare system and helps to predict future health consequences and utilize preventive measures to protect and improve quality of living. Digital Health is transforming the healthcare landscape in Bangladesh using its end-to-end comprehensive multi-layered scalable digital healthcare platform by connecting over 3.3 Million people with health services, early diagnosis, health education & referrals for intervention to achieve Health Inclusion (UHC) for SDG.

In response to the COVID-19 pandemic, digital health played a significant role to reduce the transmission. It starts from identifying high risk individuals in the population to connecting them with healthcare facilities for sample collection & testing to tracing, monitoring COVID positive patients to finally determining the outcome of a patient. All of this data can be available on AI driven data analytics dashboard for real time monitoring & resource planning. Through utilizing technologies, we can create the provision of access to healthcare in remote areas for bringing upon change and creating impact by saving lives.

The talk will discuss on Digital Health Inclusion for achieving Universal Health Coverage towards SDG in Bangladesh. It will also highlight on research, innovation and commercialization experiences on healthcare problems and solutions as well as implementation in Bangladesh.

**Biography:** Prof. Khondaker A. Mamun is the Founder and Director of the Advanced Intelligent Multidisciplinary Systems Lab ([AIMS Lab](#)) at United International University(UIU). He holds Ph.D. in Computer and Biomedical Engineering from University of Southampton, UK and Postdoctoral Research Fellowship from University of Toronto, Canada. He is a Professor of Digital Health at the Department of CSE, UIU, Bangladesh. He has published more than 130 peer reviewed international journal and conference articles. He has invented and implemented a number of digital healthcare services models for developing countries. He also holds a number of patents. His research and innovation have been featured in a number of local and international news outlets including New Scientist and BBC. His contribution in the innovation and sustainable development is recognized internationally and by the government of Bangladesh. Currently, Prof. Mamun is leading more than 10 national and international research projects in AIMS Lab. Prof. Mamun is the founder of CMED Health ([www.cmed.com.bd](http://www.cmed.com.bd)), a startup that commercialized from research and focuses on health inclusion through digital platform and currently serving over 3 million people in Bangladesh and working to attain SDG 3 through achieving universal health coverage(UHC). He received many national and international awards. He is the organizer of the first medical engineering conference, MediTec 2016, first and second International Neuroscience School (IBRO APRC 2017

and 2019) in Bangladesh. He also introduced first Deep Brain Stimulation surgery for Parkinson's patients in Bangladesh. Prof. Mamun is the contributor and topic driver of WHO/ITU Focus Group on AI for Health(FG-AI4H), Technical Working Group member for developing Digital Health Strategy 2020-2025 for the Government of Bangladesh. He is also a national consultant for information system and data management for health system of MTR of 4<sup>th</sup> HPNSP, Ministry of Health and Family Welfare, Government of Bangladesh.