Workshop on 'Smart City'

Date: 09 January, 2023 (Monday), Time: 11:00 AM – 04:00 PM

Venue: IICT Seminar Room (Room 705), 7th Floor, ECE Building, BUET, Pallashi, Dhaka-1205
Register at   iict.buet.ac.bd

Dr Emran Amin,
Spectrum Planning Engineer
Australian Communication and Media Authority (ACMA)
Adviser, Smart Casey, Melbourne, Australia

Dr Md. Saiful Islam
Professor
Institute of Information & Communication Technology (IICT), BUET

Yahia Md Amin
Chairman and Founder,
Life Spring

11:00 AM to 11:30 AM: Opening Program
11:30 AM to 12:00 PM: Introduction to Smart City (Dr. Md. Saiful Islam)
12:00 PM to 12:30 PM: Strategies and Framework for Open Data Driven 'Smart City' (Dr Emran Amin)
12:30 PM to 01:00 PM: Behavioral Smart Cities: A behavioral Approach to Improving Urban Efficiency & Quality of Life
                                                                                                (Yahia Md Amin)

01:00 PM to 2:30 PM: Lunch & Prayer Break
2:30 PM to 04:00 PM: Strategies and Framework for Open Data Driven 'Smart City' (Dr Emran Amin)

Workshop Abstract:
In this workshop, Dr. Md Saiful Islam will focus on the introductory concepts of Smart City, and Mr. Yahia Md Amin will talk about the Behavioral aspects in Smart Cities. Dr Emran Amin will provide an overview of globally recognised 'Smart City' strategies and framework. He will delve into the definitions and evolution of the emerging concepts ie 'Smart City'/ 'Digital Twin'/ 'Circular Economy'/ 'Open Data' and provide LIVE examples and case studies on how cities around Australia are adopting these technologies. In Particular, he will present *Open Data platform* at the City of Casey, Melbourne Metropolitan area, Australia. Discussion will be around challenges and opportunities towards future smart cities.

Detail agenda of Strategies and Framework for Open Data Driven 'Smart City':
1. Defining 'Smart City'/ 'Digital Twin'/ 'Circular Economy'/ 'Open Data Platform'
2. Smart City Framework by International Organization for Standardization (ISO) and Smart City Council
3. ISO 37120 Certification and Smart Sustainable Governance
4. Case Study and 'Smart City' priority areas for Bangladesh context
5. Future Opportunities and Challenges

Bio of Dr Emran Amin:
Dr Emran Amin has a dynamic career in wireless communication and Smart technology strategic planning and deployment for more than 10 years. He has a PhD from the Electrical and Computer Systems Engineering Department of Monash University (2015) and worked as a visiting researcher at the AutoID lab, Massachusetts Institute of Technology (MIT). He received the B.Eng. degree in Electrical and Electronics Engineering (EEE) Department from Bangladesh University of Engineering and Technology (BUET) in 2009. He served as a lecturer at EEE, BUET. With a PhD in innovative internet of things (IoT) solution development, he has extensive experience in telecommunication, broadcast and defence industry as a lead project manager and systems engineer. His experience complements through co-founding an IoT start-up and successfully developing innovative solutions through strategic partners with local and state government, IoT service providers and private industries in key development areas of the South-East Asian market. Currently, he is working at the Australian Communication and Media Authority (ACMA) as a planning engineer for spectrum management of future technologies ie 5G, IoT and future indoor wireless communication. He is a leading community reference member for the 'Smart Casey' initiative at the City of Casey advocating for smart city, open data platform and digital-twin. He is a presenter, organiser and judge at a number of events and competitions on Smart City and sustainable City deployment initiatives. His ultimate passion is to work for digital inclusion and equity and continue to facilitate awareness and uptake of digital technologies and promote innovation so that technology can benefit the planet and its life.

Institute of Information and Communication Technology (IICT)
Bangladesh University of Engineering and Technology (BUET)