

26 MARCH 2021
9.30AM -11.30AM

Webinar Talk on Smart City and Smart Mobility: Concept, Analytics, and Practical Deployment in Thailand

Speaker: Prof. Agachai Sumalee

BEM Approved CDP: 2 Hours
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Registration fee
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SYNOPSIS

Recent developments of internet of things (IoT) and Big data have made it easier and cheaper to collect, store, analyze, use, and disseminate multi-source data. The main mission of Smart Mobility platform is to capitalize on these opportunities to innovate the way we collect our data, analyze problem, and manage our multi-modal transportation system. Three key aspects of smart mobility will be presented in this talk including: data acquisition platform, data analytics (on-line and long-term analytics), and on-demand service application. This presentation will discuss the overall framework and the interrelationship between each components of smart mobility platform. Examples of data acquisition platform from National GPS data center, DOH Smart Highway, and Taxi OK system will be discussed. For the real-time analytics the example of national travel time analysis, taxi demand analytics, and truck stop prediction will be explained with real-world application. In addition the national freight movement and safety analysis will be discussed to illustrate the application of big data in long-term analytics. The presentation will also provide examples of on-demand service from real-world applications ranging from smart bus terminal information, logistic optimization, to on-demand taxi.

SPEAKER BIODATA

Professor Agachai Sumalee is a Professor in Smart City at Chulalongkorn School of Integrated Innovation, Chulalongkorn University. He was a full Professor at The Hong Kong Polytechnic University and a Vice President of King Mongkut's Institute of Technology Ladkrabang. He is a Co-Editor in Chief and Founding Editor of Transportmetrica B: Transport Dynamics. He is also an editorial board members of several leading journals in this area. Professor Sumalee's research interests include intelligent transportation system, smart city, Internet of Things (IOT) application in smart mobility, mathematical analysis in transport, and logistics management. He is currently committee member of the new Bangkok station operation, committee member of Thailand Transport Company, chair of the national sub-committee on Thailand common-ticket development. He led several successful deployment of ITS projects in Thailand including Thailand national GPS system, Smart Bus Terminal system and national Smart Highway system. Based on his innovative approach to transport management he received ASPIRE Prize in 2014 for the best scientist in Asia Pacific Economic Community (APEC) selecting from all scientists under 40 years old in APEC countries.