



Call for Participation
International Conference
on
Air Mobility with Unmanned Systems and Engineering (AMUSE)
Advancement and Trends of UTM/UAM in Asian Cities

16-17 July 2020; 1300hrs – 1700 hrs (UTC/GMT +8); Webinar

In recent years, drones (or UAVs) have been used in various applications for distinct advantages. Numerous studies have also predicted the magnitude and scales of the drone operations would increase tremendously in the following decades. On the other hand, industry and associations have actively developed and ventured UTM (Unmanned Aircraft Systems Traffic Management) after the first UTM Forum hosted by NASA in 2015. The continued efforts lead to the subsequent initiative on UAM (Urban Air Mobility). The numbers of symposium, forums, discussion sessions, and exhibitions with the themes on UTM and UAM have also grown significantly, for example, annual events such as World ATM Congress and ICAO's Drone Enable.

While the operation and mission by drones has become increasingly viable owing to technology advances in UAS (Unmanned Aircraft Systems) and industry push, the absolute maximum benefit of its application in large and wide scales are yet to be seen. Unlike the manned aircraft aviation that have stable and robust performances by going through progressive and step-by-step developed over several decades, the applications of UAVs (particularly for service and commercial drones) emerge rather in a relatively short time without coherent consideration and development. Because of relative low thresholds in terms of cost and relatively-easy-to-operate operation, the drone applications have been seeing promising but yet to become popular activities in large scales.

Various issues should be considered and tackled together with the technology capabilities before the absolute maximum benefit of drone application can be achieved. Furthermore, any drone in its operation will occupy airspace that is currently designated for manned aircraft. Therefore, the key purpose of UTM is to enable UAVs to fly into the current airspace without affecting the operations of manned aircraft.

The conference aims to provide a useful platform for interested research groups to share their views and findings on the issues pertaining to UTM & UAM, popular and active areas on UAS over the years.

The conference will be conducted on-line (Webinar) in view of the ongoing COVID-19 situation. The virtual conference will be scheduled for two consecutive half-day sessions. Each session consists of invited talks and presentations. The invited talk will each last 30 minutes. A panel session on specific themes will be scheduled at the end of the session.

The invited speakers are the leading groups working on the relevant topics:

Dr Kenya HARADA, JAXA	Dr Yinian MAO, Meituan-Dianping	Dr Jianping ZHANG, CAACSRI
Dr Songju KIM, KIAST	Mr Kyung-ryoon OH, KARI	Mr Leon ZHAO, Antwork
Professor Chin-E LIN, CJCU	Dr John C. H. WANG, ATMRI, NTU	Professor Yifei ZHAO, CAUC
Professor Hao LIU, BUAA	Mr Genhuai XIE, CAACSRI	Mr Edward XU, EHang

AMUSE CONFERENCE 2020

Organizing Committee	
Advisor: Prof Vu N. Duong General Chair: Prof K. H. Low Co-Chair: Dr John Wang Secretariat: Mr Wei Dai	Technical Chairs: Prof Holden Li Prof Chen Lyu Liaison Chair: Dr Hu Liu Logistic Chair: Mr Kevin Cheong

Conference Website: <http://event.ntu.edu.sg/AMUSE/Pages/index.aspx>

Conference Registration: <http://tiny.cc/mww1rz>

QR code for AMUSE Website



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