Characterization of Air Traffic Network Using Ads-b Data

Mr. Pan REN
PhD candidate
Department of Systems Engineering and Engineering Management
City University of Hong Kong

Date 8 November 2016 (Tuesday)
Time 2:30pm - 3:30pm
Venue B6619 (SEEM Conference Room), 6/F, AC1

Abstract

Airspace capacity has been credited as a major factor for air traffic congestion and flight delays. However, few studies provided measures of airspace capacity and efficiency for a large air traffic network. This research aims at evaluating whether airspace capacity is a significant factor in relation to recent air traffic delays in China. We developed a novel method to characterize flow patterns in the airspace and construct an air traffic network using Ads-b data of historical flight trajectories. Findings will be useful in evaluating the efficiency and robustness of an air traffic network in relation to its actual operation and management.

About the Speaker

Pan REN received the bachelor degree in Industrial Engineering from Nankai University and the master degree in Industrial Engineering from Shanghai Jiao Tong University. He is currently a Ph.D candidate in the Department of Systems Engineering and Engineering Management at the City University of Hong Kong, supervised by Dr. Lishuai Li. His research interests focus on the operation and management of air traffic control system.
Enquiry: 3442 2147

All are Welcome!

SEEM Seminar 2016-2017/009