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SEMINAR

Jointly organized by
Department of Civil Engineering &
Institute of Transport Studies, The University of Hong Kong
Hong Kong Society for Transportation Studies

Travel Modeling under Emerging Communications-and-Mobility Technologies

Professor Yupo Chan

Department of System Engineering, University of Arkansas at Little Rock, USA

Date: March 21, 2019 (Thursday)

Time: 6:00 p.m. - 7:00 p.m.

Venue: Room 6-12B, Haking Wong Building, The University of Hong Kong

ABSTRACT

In recent years, one has witnessed rapid advances in communications and mobility technologies. These include breakthroughs in information and communications technology (ICT) on the one hand, and connected and automated vehicles (CAVs) on the other. We will review and track the evolution of these advances. Most importantly, we wish to map out the corresponding implications for travel modeling-and-simulation. The discussions will be carried out in two book chapters. The Part- I chapter will paint a plausible projection of how the travel modeling community will respond to ICT and CAVs as we see it today. The projection is based on existing data and observations, thus lending some credibility to the conjecture. In contrast to the Part-I chapter which takes the short-term view, the Part-II chapter is much more speculative, as we dive into the unknowns of the future. The unknowns pertain particularly to the alternate future scenarios and how stakeholders respond under these scenarios, representing the most tenuous aspect of analysis. Aimed at stimulating more thoughtful discussions on “visioning,” this chapter offers solid guidelines to deal with what is coming and to deal with uncertainties that are yet to come.

ABOUT THE SPEAKER

Dr. Yupo Chan received all his degrees from MIT. After 28 years of post-doctoral experience, he became the Founding Chair of the Dept. of Systems Engineering at the University of Arkansas at Little Rock. Before UA Little Rock, Yupo worked at the Air Force Institute of Technology, Washington State University, the State University of New York at Stony Brook, Pennsylvania State University, and Kates, Peat & Marwick. He was a Congressional Fellow in the Office of Technology Assessment in Washington, DC. Dr. Chan’s training and research include transportation systems, telecommunications, networks and combinatorial optimization, multi-criteria decision-making and spatial-temporal information. He has published numerous books and monographs, including Location Theory and Decision Analysis; Location – Second Edition, Transportation, & Land-Use (Second Edition under preparation); Data Engineering: (co-editors J. Talburt, and T. Talley).

- ALL ARE WELCOME -