

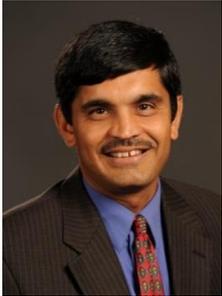
Three-day Workshop on Activity-Based Modeling: Recent Advances and Possible Application to the Hong Kong Region

Prof. Chandra R. Bhat

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Speaker's Biography

Prof. Chandra R. Bhat is a world-renowned expert in the area of transportation and urban policy design, with far reaching implications for public health, energy dependence, greenhouse gas emissions, and societal quality of life. Methodologically, he has been a pioneer in the formulation and use of statistical and econometric methods to analyze human choice behavior. His current research includes the social and environmental aspects of transportation, planning implications of connected and automated smart transportation systems (CASTS), and data science and predictive analytics. He is a recipient of many awards, including the 2017 Council of University Transportation Center (CUTC) Lifetime Achievement Award in Transportation Research and Education, the 2015 ASCE Frank Masters Award, and the 2013 German Humboldt Award. He was listed in 2017 as one of the top ten transportation thought leaders in academia by the Eno Foundation. He is also a top-cited transportation engineering researcher (web of science h-index of 50), and was listed in the most cited researchers in civil engineering by ShanghaiRanking's global ranking of academic subjects 2016 by Elsevier. He is the Editor-in-Chief of Transportation Research – Part B.

*D-STOP is the Data-Supported Transportation Operations and Planning Center at the University of Texas at Austin

Date: 2, 5 and 7 August 2019 (totally 3 sessions)
Time: 13:30 – 15:00 (1.5 hours for each session)
Venue: Room Z406, 4/F., Block Z,
The Hong Kong Polytechnic University,
Hungghom, Kowloon, Hong Kong

Abstract

Urban population explosion is an ubiquitous phenomenon across the globe, particularly in many Asian cities. This population explosion has led to a substantial strain on the transportation infrastructure in the form of traffic congestion. The problems of traffic congestion and urban footprint expansion have, in turn, led to other associated problems of increased traffic crashes and fatalities, mobile-source emissions, greenhouse gas emissions, and global climate change. As a result, national and regional urban and transportation planning agencies have embarked on renewed master planning and strategic planning efforts to regulate development and manage growth. Such efforts need a shift in the focus of travel demand modeling from the statistical prediction of aggregate-level, long-term, travel demand to understanding disaggregate-level (i.e., individual-level) behavioral responses to short-term demand management policies. Individuals respond in complex ways to such changes in travel conditions. In this workshop, the speaker will (1) Provide an overview of the many dimensions and features characterizing activity-travel behavior modeling, (2) Present the conceptual basis and the modeling architecture adopted in activity-based travel forecasting systems that have been developed in the recent past, (3) Identify important advances in the field within the past 2-3 years that make activity-based modeling a practical proposition for any urban area, and (4) Summarize the benefits and pathways to develop and implement activity-based models in Hong Kong and other far-eastern cities.

*** All Interested Are Welcome ***

For further information, please contact Prof. William H.K. Lam at Tel. 2766-6045.
Free Admission. Please reserve your seat with Mr. Hao Fu by email: hao.fu@connect.polyu.hk