# Executive Course

**Activity-Based Modeling of Spatial and Temporal Patterns of Human Travel Behaviour**

**Tongji University, Shanghai  July 9-10, 2016**

**Date:**    July 9-10, 2016  
**Location:**  Room 405, Zonghe Building, Tongji University, 1239 Siping Road, Shanghai 200092  
**Instructors:***  
- Professor Chandra R. Bhat, The University of Texas at Austin  
- Professor Konstadinos G. Goulias, The University of California at Santa Barbara  
- Professor Ram M. Pendyala, Georgia Institute of Technology  
**Host:**  Professor Xin Ye, Tongji University

### Saturday, July 9, 2016
1) 1:00 – 1:15 PM  Welcome and Introduction  
   (Ye/Bhat)  
2) 1:15 – 2:00 PM  Time, space, place, and social interactions in activity-travel behavior  
   (Goulias)  
3) 2:00 – 2:45 PM  Fundamentals of activity-based transport modeling methods  
   (Bhat)  
4) 2:45 – 3:15 PM  Break  
5) 3:15 – 3:45 PM  The SimAGENT model system – an overview  
   (Goulias)  
6) 3:45 – 5:00 PM  Synthetic population generation – PopGen software  
   (Pendyala)  

Dinner – On Your Own

### Sunday, July 10, 2016
1) 8:45 – 9:15 AM  CEMSELTS: a socio-economic model system  
   (Pendyala)  
2) 9:15 – 10:15 AM  CEMDAP: the activity-based travel model  
   (Bhat)  
3) 10:15 – 10:45 AM  Break  
4) 10:45 – 11:15 AM  Measures of opportunity-based spatio-temporal accessibility  
   (Goulias)  
5) 11:15 – 12:00 PM  The Multiple Discrete Continuous Extreme Value (MDCEV) model  
   (Bhat)  
6) 12:00 – 1:00 PM  Lunch provided  
7) 1:00 – 1:30 PM  Forecasting with the MDCEV model  
   (Bhat)  
8) 1:30 – 2:30 PM  MDCEV application: a vehicle fleet composition model system  
   (Pendyala)  
9) 2:30 – 3:00 PM  Break  
10) 3:00 – 3:45 PM  Data and analytics for activity-based travel modeling  
    (Goulias)  
11) 3:45 – 4:15 PM  Advanced methods for simulating cross-nested discrete choice models  
    (Ye)  
12) 4:15 – 4:30 PM  Wrap-up: future directions in activity-based transport modeling  

Adjourn