

Microscopic Traffic Simulation Models – Why and How to Calibrate Them?

May 11, 2011



Session Duration: 120 Minutes

Microscopic traffic simulation models have been widely used to assist decision-making processes by assessing the impacts of traffic operations and intelligent transportation systems strategies. These models are at risk of being used without proper calibration and validation, due to lack of staff time or budgetary constraints. This webinar explore ways to properly calibrate and validate traffic simulation models. Presenters will discuss the importance of proper calibration. A systematic procedure developed for the Virginia Department of Transportation will be explained and demonstrated via a case study.

At the end of the webinar, the participants should be able to:

- (i) Understand why a traffic simulation model needs to be calibrated and validated before assessing transportation system performance, and;
- (ii) Obtain basic knowledge in traffic simulation model calibration and validation procedure.

Panelists for this webinar include:

Aleksandar Stevanovic, Florida Atlantic University
Byungkyu “Brian” Park, University of Virginia

Moderated by: John Shaw, University of Wisconsin – Madison