

Abstract Submission Form



2010 ITE Western District Annual Meeting

*San Francisco, CA
June 27-30, 2010*

Paper Title:

The Role of Simulation in 2010 Highway Capacity Manual

Relevant Session/Topic:

"Overview of the 2010 HCM" session (organized by Erik Ruehr)

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Abstract: 250 words maximum. Use 12 point Arial font, single space.

The application of traffic simulation models has become a standard part of the traffic engineering practice. At the same time, professionals continue to rely on the analytical procedures in the Highway Capacity Manual (HCM). The development of the 2010 HCM provides an opportunity to expand the guidance for simulation model users. The focus of the guidance in the new manual will be on using simulation with the HCM (not in place of it). There are other references available for applying simulation models, but coordination of simulation with the HCM is not well covered. To address this need, the HCM will include several new elements related to simulation:

- A new chapter on “HCM and Alternative Analysis Tools”, which addresses the spectrum of tools for highway capacity analysis, with a focus on simulation.
- A new chapter on “Interpreting HCM and Alternative Tool Results”, which focuses on measures of effectiveness, and the consistency between simulation models and the HCM.
- New material in each methodological chapter (e.g., freeway merge/diverge, weave, signalized intersection, etc.) that addresses the limitations of the HCM and opportunities for simulation
- Specific examples of simulation applications, with descriptions of how they tie into HCM techniques

The presentation will highlight key features and examples from the new material in the HCM 2010.

Abstracts are due by 5:00pm on Monday, January 4, 2010.

e-mail your abstracts to:

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