



# **Fundamentals of Traffic Simulation: 145 (International Series in Operations Research & Management Science)**

*Jaume Barceló*

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The increasing power of computer technologies, the evolution of software engineering and the advent of the intelligent transport systems has prompted traffic simulation to become one of the most used approaches for traffic analysis in support of the design and evaluation of traffic systems. The ability of traffic simulation to emulate the time variability of traffic phenomena makes it a unique tool for capturing the complexity of traffic systems. In recent years, traffic simulation – and namely microscopic traffic simulation – has moved from the academic to the professional world. A wide variety of traffic simulation software is currently available on the market and it is utilized by thousands of users, consultants, researchers and public agencies. Microscopic traffic simulation based on the emulation of traffic flows from the dynamics of individual vehicles is becoming one of the most attractive approaches. However, traffic simulation still lacks a unified treatment. Dozens of papers on theory and applications are published in scientific journals every year. A search of simulation-related papers and workshops through the proceedings of the last annual TRB meetings would support this assertion, as would a review of the minutes from specially dedicated meetings such as the International Symposiums on Traffic Simulation (Yokohama, 2002; Lausanne, 2006; Brisbane, 2008) or the International Workshops on Traffic Modeling and Simulation (Tucson, 2001; Barcelona, 2003; Sedona, 2005; Graz 2008). Yet, the only comprehensive treatment of the subject to be found so far is in the user's manuals of various software products.

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