

Jungblut-Hessel, Roberta; Plateau, Brigitte; Stewart, William J.; Ycart, Bernard
Fast simulation for road traffic network. (English) [Zbl 1098.90513](#)
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Summary: In this paper we present a method to perform fast simulation of large Markovian systems. This method is based on the use of three concepts: Markov chain uniformization, event-driven dynamics, and modularity. An application of urban traffic simulation is presented to illustrate the performance of our approach.

Reviewer: [Reviewer \(Berlin\)](#)

MSC:

[90B18](#) Communication networks in operations research
[90B20](#) Traffic problems in operations research

Keywords:

[Markov chains](#), [stochastic automata networks](#), [simulation](#), [stochastic modeling](#)

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