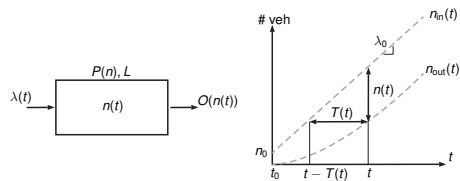


Macroscopic urban dynamics: Analytical and numerical comparisons of existing models

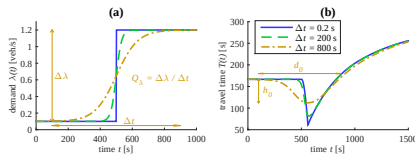
Guilhem Mariotte, Ludovic Leclercq & Jorge A. Laval

Accumulation-based model

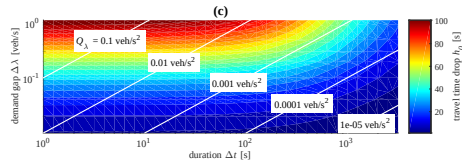


Single reservoir modeling

Accumulation-based model: Validity domain

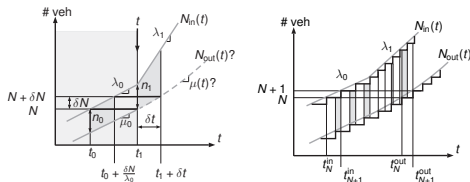


Travel time drop for a demand increase



Travel time drop height

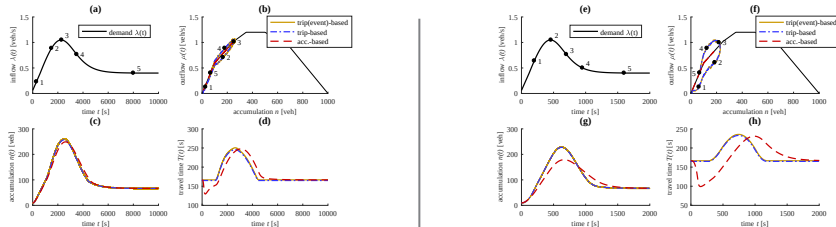
Trip-based model



Discretization on vehicle number

Event-based resolution scheme

Comparison with the trip-based model



Slow varying demand

Fast varying demand