Abstract

The large body of literature in the area of traffic flow theory and most of the existing traffic simulation models cannot be used as such in countries like India. Since the traffic condition in the Indian subcontinent are coarser- with innumerable ill-defined classes of vehicles interacting in an undisciplined manner, any study on this scenario will be meaningful only if it can incorporate both vehicular heterogeneity and no lane discipline conditions. This paper briefly discusses various past simulation simulation models and some recent models which are found more relevant to Indian context. Through the above discussions, the paper highlights the need of a comprehensive model which can simulate Indian traffic conditions in a realistic way. The description of CUTSiM model, which is found closer to the above mentioned approach is also presented. The results obtained, ensure the applicability of CUTSiM in Indian conditions in an appreciable way.
References


Index Terms

Computer Science
Emerging Trends in Technology
Need for a Comprehensive Traffic Simulation Model in Indian Context

Keywords
Simulation Model  Car-following  No-lane Discipline  Heterogeneity  Microscopic Models  Cutsim