

## Parametric Estimation of U-Turn Vehicles

**Authors :** Yonas Masresha Aymeku

**Abstract :** The purpose of capacity modelling at U-turns is to develop a relationship between capacity and its geometric characteristics. In fact, the few models available for the estimation of capacity at different transportation facilities do not provide specific guidelines for median openings. For this reason, an effort is made to estimate the capacity by collecting the data sets from median openings at different lane roads in Hyderabad City, India. Wide difference (43% -59%) among the capacity values estimated by the existing models shows the limitation to consider for mixed traffic situations. Thus, a distinct model is proposed for the estimation of the capacity of U-turn vehicles at median openings considering mixed traffic conditions, which would further prompt to investigate the effect of different factors that might affect the capacity.

**Keywords :** geometric, guidelines, median, vehicles

**Conference Title :** ICACE 2024 : International Conference on Architectural and Civil Engineering

**Conference Location :** Chicago, United States

**Conference Dates :** May 16-17, 2024