

## عنوان مقاله:

(Developing a model to optimize passenger waiting time (case study: Tehran BRT line V

## محل انتشار:

هجدهمین کنفرانس بین المللی مهندسی حمل و نقل و ترافیک (سال: 1398)

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## خلاصه مقاله:

In today's societies, car traffic and its aftermath have become one of the most pressing human problems, which requires special attention from urban managers and decisionmakers. In addition to reducing traffic and air pollution, public transport provides the basis for social justice across all segments of society. The Bus Rapid Transit (BRT) system is one of the most efficient public transport systems both in terms of short-run times and in terms of running costs and public acceptance. However, one of the most undesirable indicators in this system is the waiting time for passengers at different stations. This paper proposes a model to minimize passengers' waiting time based on the change in headway from the primary terminal. Required data were harvested within three working days. Statistical analysis was performed for the collected data. An algorithm is presented to calculate the waiting time. This algorithm obtains the waiting time values based on each input headway. The results show that the correction in time interval can reduce up to ۲.۰۷% of the total objective function (i.e., whole waiting time of passengers at the station).

## کلمات کلیدی:

BRT, air pollution, traffic, optimize

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