

## عنوان مقاله:

Time Headway Distribution in congested and uncongested traffic flow

## محل انتشار:

شانزدهمین کنفرانس بین المللی مهندسی حمل و نقل و ترافیک (سال: 1395)

تعداد صفحات اصل مقاله: 12

## نویسندگان:

Ehsan Ramezani Khansari - *PhD Candidate, Amirkabir University of Technology*

Masoud Tabibi - *Assistant Professor, Amirkabir University of Technology*

Fereidoon Moghadas Nejad - *Associate Professor, Amirkabir University of Technology*

Atiye-Sadat Hashemiyani - *MSc, Azad University of Zanjan*

## خلاصه مقاله:

Many studies have tried to estimate time headway distribution in a traffic flow. But investigations on differences between congested and uncongested time headway distributions is rare, more over it should be estimated for each different country. This paper tries to propose time headway distribution for native drivers in different speed ranges. The results showed although Weibull 3-parameter distribution is suitable for congested and uncongested flows, parameters are different. Contrary to the idea increasing speed will increase time headway, smaller time headway was monitored in higher speeds. Genetic algorithm (GA) was used rather than conventional classic methods such as maximum likelihood estimation (MLE) for parameter estimation. Results showed better fit to the natural data.

Proposed GA improved distribution error about 50 and 12% by estimating better parameters

## کلمات کلیدی:

Car following, Time headway, Genetic algorithm, Congested, Uncongested

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/717538>

