

عنوان مقاله:

Sustainable transport planning: Estimating the optimal proportion in the using of transportation modes to reduce ecological footprint

محل انتشار:

سیزدهمین کنفرانس بین المللی مهندسی حمل و نقل و ترافیک (سال: 1392)

تعداد صفحات اصل مقاله: 12

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خلاصه مقاله:

The ever-increasing growth of Sanandaj population has increased the intro-urban vehicles, which causes the traffic congestion as the main problem in Sanandaj. Although in recent years some urban development plans have been done to reduce problems based on the public transportation, but they aren't pay attention considerable success. In this regard, this paper tries to mitigate current problems and to enhance environmental conditions of Sanandaj. To do this, ecological footprint based on analytical-descriptive method is main approach of the paper to evaluate the sustainability of each mode of urban transportation in Sanandaj over 2012, and to propose optimal proportion of each mode in 2027. The results show that maximum rate of ecological footprint in 2012 relates to mini-bus and its minimum rate relates to motorcycle. The comparison of urban transportation ecological footprint with the international standards show, except the bus, other transportation modes have higher level on ecological footprint in Sanandaj. Therefore, regarding to the obtained population estimation about 585437 for Sanandaj in 2027, and based on the ecological footprint evaluation, the rate of each transportation vehicles such as bus, mini-bus, taxi, private car and motorcycle in 2027 are about 54.26, 1.04, 27.28, 15.97 and 1.45 percent respectively that is equal to 40382, 766, 20303, 11887 and 1078 people.

کلمات کلیدی:

Ecological Footprint, Urban sustainability, urban transportation modes, Sanandaj city

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