عنوان مقاله:

A green relocation model for bike sharing systems considering broken bikes

محل انتشار:

چهاردهمین کنفرانس بین المللی انجمن ایرانی تحقیق در عملیات (سال: 1400)

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خلاصه مقاله:

In recent years, bike sharing systems as a sustainable and environment-friendly transportation mode have been gained increasing attention. However, with the raising of environmental awareness, companies must contribute towards the significance of incorporating green practices into their daily activities. This study intends to develop a green bike sharing model which integrates bike relocating and repairing problems. The proposed model also considers a time window for total operation time and allows vehicles to use stations as a temporary depot. Finally, the model is implemented using the real data of the San Francisco bike sharing system and considering four different .scenarios; and in the last part, the impact of the various policies by changing the value of penalties is studied

کلمات کلیدی:

Bike sharing, Static green relocating, Usable Bikes, Broken bikes, Carbon emission

لینک ثابت مقاله در پایگاه سیویلیکا: