

عنوان مقاله:

Quantifying the Quality of Temporal Integration in Transit Systems: A New Measure of Effectiveness

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خلاصه مقاله:

Temporal coordination of services, as a crucial aspect of integration in transit systems, has always been a big concern for public transport planners. A major problem in the way of coordinating transit timetables is the lack of a robust measure for assessing the quality of temporal coordination of services, particularly in the absence of transfer counts. This paper aims to present a practical method for quantifying the temporal coordination in public transport systems. After evaluating the timetable coordination indices proposed in the literature, a quantitative index is mathematically developed based on the waiting time imposed on transferring passengers. A numerical example is also presented to reveal the applicability of the proposed index. This index can be reliably used as a measure of effectiveness for assessing the impacts of different timetabling strategies on temporal integration of transit systems

کلمات کلیدی:

Transit, public transport, synchronisation, timetable, schedule

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