Speculating the Travel Purposes of Passenger Groups in Railway Transportation System for Better understanding of Passengers

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Abstract

There are different areas for speculations from the researcher’s point of view. Speculations about persons who are traveling together is a very interesting area for research. This presumption can benefit to many bearing services so that they can improve personalized carrier services and get more benefit from that presumptions. This will results a drastic change in bearing services. To get this benefit we have implemented a system, in which we have to perform iterative classification algorithm on data, which results presumption of passengers. We have to build Co-travel network first then we have to generate features to form a grouping of passengers then use iterative classification algorithm. Iterative classification algorithm collectively finds the overlapping of passengers from different groups and results speculation of passengers who are traveling together from same source to destination. Experimental results on data set of passenger travel record in the field of railway transportation system demonstrate that our proposed iterative classification approach can efficiently speculate the travel purposes of passenger group.


**Index Terms**

Computer Science  
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**Keywords**

Speculate, co-travel network, iterative classification, passenger group, travel purpose, collective inference.