Abstract

People usually travel to the same destination and same purpose together with the other people in groups. Inferring the travel purpose of passenger groups help us to better understand passengers and bring meaningful changes for personalized travel service. First we construct cotravel network by extracting social relations between passengers from their historical travel records that are available in passenger information system. We generate series of sophisticated features for each passenger group and use the overlapping relation between passenger groups to capture relations. At last we collectively infer the labels of all the groups in iterative way.

References

2. L. Wu, J. Zhang, and A. Fujiwara, “Representing tourists heterogeneous choices of destination and travel party with an integrated latent class and nested logit model,” Tourism
Index Terms

Computer Science

Networks

Keywords

Collective inference, cotravel networks, iterative classification.