عنوان فارسی مقاله:
انتخاب طبقه بندی پنهان بر اساس سیستم مدل برای تخصیص جایگاه و قیمت گذاری بهینه راه آهن

عنوان انگلیسی مقاله:
A latent class choice based model system for railway optimal pricing and seat allocation

توجه!
این فایل تنها قسمتی از ترجمه میباشد. برای تهیه مقاله ترجمه شده کامل با فرمت ورد (قابل ویرایش) همراه با نسخه انگلیسی مقاله، اینجا کلیک کنید.
8. Conclusions and future research

This paper has proposed an empirical study based on ticket reservation data for intercity passenger railway trips. We have presented a methodological framework that incorporates latent class models for ticket purchase timing decisions in a railway pricing and seat allocation problem. The approach allows RM strategy to explicitly account for passenger taste heterogeneity by classifying passengers into classes based on departure schedules instead of using trip purposes which are not available in the data used for the analysis. Demand response to fare is explicitly represented by an aggregate log-linear function and is incorporated into the optimization problem. The RM revenue optimization considers a joint problem of pricing and seat allocation with the objective of maximizing expected ticket revenue for each train trip. The proposed formulation allows for simultaneous optimization of pricing and seat allocation while accounting for heterogeneous passenger preferences. The capacity constraints are determined on the basis of the railway network characteristics which allow capacity resources to be efficiently utilized across the network.