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论文

航空客运舱位控制和超售综合静态建模研究

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Integrated Static Modeling of Airline Seat Inventory Control and Overbooking

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摘要 本文研究航空运输收益管理的舱位控制和超售综合静态建模问题.通过将机票销售过程模拟成排队过程,以收益最大化为目标函数,首先给出了单航段单等级票价下的超售水平公式.然后将该思路推广到多等级票价情况,应用动态规划方法建立了舱位控制和超售综合控制静态模型,在建立了两个定理的基础上,由该模型进一步推导出了各等级舱位最优订座限制的决策方程.最后分析了一个实例以说明决策方程的应用.

关键词： 交通运输 舱位控制 超售 静态模型

Abstract： The integrated static modeling of seat inventory control and overbooking for airline revenue management was studied in this paper.Firstly,a simple overbooking equation was given for single-leg single-class seat inventory flight,with seat reservation process simulated as queuing process and maximized flight revenue as objective function.Secondly,the idea was extended to multi-class seat inventory situation by using dynamic program to build integrated static model of seat inventory control and overbooking.After two theorems were proved,optimal seat reservation decision equations of each level seat inventory were obtained.Finally,an instance was analyzed to show the utilization of the decision equations.

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