

数学与系统科学研究院

计算数学所学术报告

报告人: Dr. HUANG Huei Chuen

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报告题目:

**A Convex Approximation Method
for Dynamic Workforce Capacity
Planning Problem**

邀请人: 袁亚湘研究员

报告时间: 2007年9月25日(周二)

下午 15:30—16:30

报告地点: 科技综合楼三层 311

计算数学所报告厅

Abstract:

In this talk, a workforce capacity planning problem is considered, which concerns transferring, hiring, or firing employees among different skill categories of an organization under an environment of uncertain workforce demands and turnover, with the objective of minimizing the expected cost over a finite planning horizon. It will be illustrated that the problem can be formulated as a multistage stochastic program and be solved by a convex approximation method in stages and iteratively. An advantage of the method is that it can handle problems of large size where normally solving the problems by equivalent deterministic linear programs is considered to be computationally infeasible. Numerical experiments indicate that solutions obtained by the method have expected costs near optimal.

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