

数学与系统科学研究院

计算数学所学术报告

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报告题目:

**Perturbation Analysis of SC¹
Programming Problems**

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报告地点: 科技综合楼三层 311

计算数学所报告厅

Abstract:

This report focuses on the perturbation analysis for the SC^1 optimization problem, in which the objective and constraint functions are differentiable with semis-smooth first derivatives. A set of second order optimality conditions are developed in terms of (parabolic) second-order directional derivatives, including the “no-gap” second-order optimality conditions. The perturbation analysis for the SC^1 optimization problem reveals the relationships between two versions of strong second order sufficient condition, the nonsingularity of the Clarke’s Jacobian of the the Karush-Kuhn-Tucker (KKT) system, the CD-regularity of KKT point and the canonical uniform second order growth condition.

This is a joint work with Shaoyan Guo.

欢迎大家参加!