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：

Smoothing methods for the hemivariational inequalities

邀请人： 戴彧虹 研究员

报告时间：2016 年 4 月 3 日（周日）

上午 9:00

报告地点： 数学院南楼七层

702 会议室

Abstract：

In this paper, we consider a class of nonsmooth and nonconvex optimization problem, which is constrained by box constraints. The objective function of the problem has a dominated quadratic part. Hence, we employ the smoothing quadratic regularization method to solve it. The hemivariational inequalities coming from the nonsmooth mechanics of solid, especially in nonmonotone contact problems can be formulated as this kind of optimization problems. For this algorithm, the closed form solution is not expensive to calculate at each iteration. The convergence results of this algorithm are shown, and the worst case complexity for reaching an $\in$ Clarke stationary point is also given.

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