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：

Scale Invariant cosegmentation for image groups

邀请人： 徐国良研究员

报告时间：**2011** 年 **9** 月 **27** 日（周二）

下午 **14：30**

报告地点： 科技综合楼三层 **305**

计算数学所会议室

Abstract:

In this talk, we consider the issue of generalizing the problem of Cosegmentation to a large group of images, i.e., concurrent segmentation of common foreground region(s) from multiple images. A major concern in co-segmentation is the development of an algorithm that is scale invariant (foregrounds may have arbitrary sizes in different images) and the running time to increase (no more than) near linearly in the number of images in the set. This setting is particularly challenging even when we ignore the scale invariance desiderata, the Cosegmentation problem, as formalized in many recent papers, is already hard to solve optimally in the two image case. In this talk, we present a surprisingly easy to implement algorithm which performs well, and satisfies all requirements listed above (scale invariance, low computational requirements, and viability for the multiple image setting). We present qualitative and technical analysis of the properties of this framework.

The work is joint with Vikas Singh from University of Wisconsin at Madison, supported by NSF, NIH, AFOSR.

欢迎大家参加！