

数学与系统科学研究院  
计算数学所定期学术报告

报告人: **Prof. Zeyun Yu**

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报告题目:

**Feature-preserving surface mesh smoothing  
via suboptimal Delaunay triangulation**

邀请人: 徐国良研究员

报告时间: **2011 年 6 月 23 日 (周四)**

**下午 16: 00~17: 00**

**(15: 30~16: 00 茶歇)**

报告地点: **科技综合楼三层 311**

**计算数学所报告厅**

## **Abstract:**

**A method of triangular surface mesh smoothing is presented to simultaneously improve angle quality and remove mesh noise. The mesh quality is improved by solving a quadratic optimization problem that minimizes the approximated interpolation error between a parabolic function and its piecewise linear interpolation defined on the mesh. A unique analytic solution is derived for this suboptimal problem. In addition to the quality-improving property, the proposed method can be readily adapted to remove mesh noise while faithfully preserving desirable mesh features. Several experiments will be presented to demonstrate the performance of the method.**

**欢迎大家参加!**