数学与系统科学研究院

计算数学所网络学术报告

报告人： Dr. Hang Si

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报告题目：

An Introduction to Unstructured Mesh Generation and Adaptation

邀请人： 谢和虎 研究员

报告时间：2020 年 12 月 7 日（周一）

下午 15:00-16:00

报告工具：腾讯会议（ID：773 483 094）

摘要：

Mesh generation and adaptation are key steps in many applications such as numerical methods like finite element and finite volume methods. It is itself a research topic with background in mathematics, computer science, and engineering.

In this talk, we will begin with triangle mesh generation and adaptation in the plane. This problem has been well studied. Efficient algorithms are developed. We will then move to tetrahedral mesh generation in 3d, which is still challenged by many theoretical and practical issues. In this talk, we will highlight some recent development in this field.

报告人简介：

Hang Si is employed by Weierstrass Institute (WIAS) in Berlin. His main research is mesh generation and the discrete and computational geometry problems behind it. The goal is to develop efficient algorithms for automatically generating tetrahedral meshes suitable for numerical methods such as finite element and finite volume methods. He developed the software, TetGen, a Delaunay tetrahedral mesh generator. It is freely available for academic use (http://www.tetgen.org).

Hang Si got his B.S. in Electrical Engineering in Hangzhou University (now merged in Zhejiang University) in 1994, and got his M.S. in Computer Science in Zhejiang University in 2002. He joined the research group "Numerical Mathematics and Scientific Computing" of WIAS in 2002. He received his Ph.D from the Institute of Mathematics of Technische Universitaet Berlin in 2008.

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