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:

A Few Topics on Mesh Processing and Applications

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311 报告厅

Abstract:

Mesh has been widely used to represent object that can be handled and processed by computer. The applications of mesh have already passed over the scientific field and have brought invaluable industrial profits. The topics related to mesh are tremendous and we only pick a few to discuss. We talk about multi-domain meshing, including gap-exist and gap-free cases. Next we introduce intermediate contouring, which is a hybrid of marching cube method and dual contouring. Hole filling has many applications and is still challenging. We can clean horizon pairs that are used to represent subsurface structure. Mesh registration has been applied automatic landmarking for total in knee replacement system. Mesh Boolean operations are widely metrology with used nano-scale precision in semi-conductor industry. All these topics are independent and are along my personal experience.

欢迎大家参加!