

数学与系统科学研究院

计算数学所学术报告

(博士后定期学术报告)

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报告题目:

Surface mesh simplification
Technology in Reverse Engineering

合作导师: 徐国良研究员

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下午 16:00—17:00

报告地点: 科技综合楼三层 311

计算数学所报告厅

Abstract:

Edge collapse simplification is one of most important triangular mesh simplification

algorithms. It is a basic one in multiresolution adaptive parameterization of surfaces, geometric compression based on normal detail, progressive transmission of meshes and so on.

Our method computes new vertex by the improved butterfly subdivision scheme to reduce the approximation error between the simplified model and the original one and preserve the manifold topology of model that is unable to be maintain by other approaches. To simplify the mesh, we introduce surface variation as the parameter to evaluate surface curvature.

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