Defense of a Doctoral Dissertation

A Point Cloud Approach to Object Slicing for 3D Printing

by

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For the Ph.D. degree in Computer Science & Engineering

Object slicing is a fundamental component in the 3D printing preprocess. This dissertation presents an alternative to the traditional tessellation strategy for object slicing. The proposed algorithm uses point clouds generated from an original model's definitions to calculate intersections of slicing planes with an object's surfaces. This algorithm avoids the complications introduced by tessellating an object for slicing.

Tuesday, February 27, 2018
12:00 PM
ENB 313

The Public is Invited

Examining Committee
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