



Center for Graphics and Geometric Computing

Lab Project 234326 proposal

Spring 2014

Maya Plugin for Analyzing Maps between Shapes

Description:

Maps between 3D shapes are paramount for a variety of applications from medical imaging to evolutionary morphology. In this project you will write a plugin for the Maya modeling tool, for visualizing and modifying maps between shapes and shape collections. You will implement a recent state-of-the-art method for map visualization, and explore additional aspects of map analysis.

References:

- [1] <http://www.autodesk.com/products/autodesk-maya/overview>
- [2] "Analysis and Visualization of Maps Between Shapes", Maks Ovsjanikov, Mirela Ben-Chen, Frederic Chazal and Leonidas Guibas, Computer Graphics Forum, 2013.

Prerequisites:

Intro to computer graphics (234325) or comparable industry experience.

Advisor:

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