COMP0119: Acquisition and Processing of 3D Geometry

Coursework 2: Curvature Discretisation and Mesh Smoothing

This report will demonstrate the algorithm implemented for the curvature discretisation and mesh smoothing.

Section 1: Curvature Discretisation

Task 1: Uniform Mean and Gaussian Curvature

Bla

Task 2: Non-Uniform Mean Curvature

Bla

Task 3: Reconstruction

Bla

Section 2: Mesh Smoothing

Task 1: Explicit Laplacian Scheme

Bla

Task 2: Implicit Laplacian Scheme

Bla

Task 3: Implicit Laplacian Scheme

Bla

Reference

Desbrun, M., et al. (1999). Implicit Fairing of Irregular Meshes using Diffusion and Curvature Flow. *SIGGRAPH '99 Proceedings of the 26th Annual Conference on Computer Graphics and Interactive Techniques*, 317-324. doi: 10.1145/311535.311576