

Computer Aided Geometric Design - Assignment 9

November 25, 2025

1. Implement the Loop subdivision algorithm for triangle mesh. Given a low-resolution triangle mesh, use the Loop subdivision algorithm to perform multiple subdivisions to obtain a high-resolution smooth mesh.

Reference:

Stam 1998. Evaluation of Loop Subdivision Surfaces

Requirements

Download homework9.zip and complete the loop function in the loop_subdivision_test.m file.

Deadline: Tuesday, December 2, 2025 (evening)