Creating Triangle Meshes for the Finite Element Method

Abstract:
When utilizing the finite element method in two dimensions, one requires a suitable mesh of the domain they wish to solve on. In this talk we will go over the term suitable, an in depth approach to arrive at this goal, and strategies for programming implementations. This talk will additionally demonstrate the workings behind the culmination of this research: a program which allows users to create 2D triangle meshes for any domain they desire.