1. Problem Statement

Geometry of an enclosed region
What about using Geometrical Boolean (i.e. union)?
- if boundaries are aligned ✓
- non-aligned boundaries ✗

2. Proposed Solution

Growing Circle
applying to the previous examples: ✓

What about these examples?
maximum radius
more circles

Calculation of centers and maximum radius

3. What is K?

Small K: several disconnected polygons
Large K: continuous polygon but problem with wide gaps

4. Upper Airway Modeling

2D cross-sections
From 2D cross-sections to 3D geometry

References


