What is Comp & - a subted of algoriths

Wy geometric I/O focus of course

- other look at 20130 problems (usually lover <10 dins)
(usually approx in higher din)
Gomp G devoped by researchers discrete alsos:
-emphasis on combinatorics and topology
- primarily focus on "flut objects"

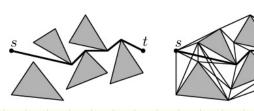
Applications; -graphics - image processing - CAD

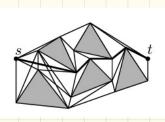
- application in science (bio, fluid dynamics, physics)

Typical problem

Girnia set of polygonal obsticules
a start pant
a youl point

find' shortest Path From Start (s) to the good (t)





Strengths of Comp G - tools of CompG: possily correct and effect algo-- emphasis on correctness & robustness ex do 2 segs intersect XXX Limitations - emphasis of discrete: can't use for cts probles that do not have a discretication -emphasis on flat objets Topics Polygon triangulation Convex hull (a,6,c) · in IR3 Fig. 3: Voronoi diagram and Delaunay triangulation. · heroshous Ponia 20 Fig. 4: An arrangement of lines in the plane.

