CS 516 -11 Computational Geometry & Graph Drawing (Spring 2013)

Reading

MountNotes Chapters 28 Chapters 11,12,13,27

Last time...

Seidel, R., "A simple and fast incremental randomized Algorithm for computing trapezoidal decompositions and triangulating polygons", <u>Computational Geometry:</u> <u>Theory and Applications</u> 1 (1991) 51-64

Voronoi diagrams and Delaunay triangulations

- basic properties
- relationship with hulls and half-space intersection

Today...

Voronoi diagrams and Delaunay triangulations

- more basic properties
 - algorithmic implications
- relationship with hulls and half-space intersection

(in one higher dimension)

- parabaloid lifting

- transformation of circles to halfspaces