COT5520: COMPUTATIONAL GEOMETRY

Homework # 0

Due date: Aug 31, Thursday. This homework is not to be graded. It should help you find a project topic. Once you are done, send me an e-mail (`ungor@cise.ufl.edu`) summarizing your experience with each of the problems.

1. Surf the web starting at
   - *Geometry in Action* by David Eppstein
     `http://www.ics.uci.edu/~eppstein/geom.html/`
   - *The Geometry Junkyard* by David Eppstein
     `http://www.ics.uci.edu/~eppstein/junkyard/`
   - *Computational Geometry Pages* by Jeff Erickson
     `http://compgeom.cs.uiuc.edu/~jeffe/compgeom/index.html`
2. Download, install and test-run at least one of the following software packages:
   - *CGAL*
     `http://www.cgal.org/`
   - *Alpha shapes*
     `http://biogeometry.duke.edu/software/alphashapes/index.html`
   - *qhull*
     `http://www.geom.uiuc.edu/software/download/qhull.html`
   - *Triangle*
     `http://www-2.cs.cmu.edu/~quake/triangle.html`
   - *Voroglide*
     `http://www.pi6.fernuni-hagen.de/GeomLab/VoroGlide`
3. Read the nineteen proofs of Euler's formula at
   `http://www.ics.uci.edu/~eppstein/junkyard/euler/`
4. Skim through the Computational Geometry literature and pick two research papers that are of interest to you. Send their bibliographic information to me and start reading them.