**Smith Walks**

**DESCRIPTION**

*Smith Walks* is a geotracking project aimed at exploring Smith College community. It gathers information about movement of people on Smith campus, and analyzes the data, sorting in by different criteria. By creating visualizations of paths, the project reveals patterns.

*Smith Walks* is a continuation of CSC 220: Advanced Programming Techniques taught by Dominique Thiebaut in Fall 2010.

**STRUCTURE**

The project involves the following:
- gathering geographical data in KML format using smartphone applications, like Walkmeter on iPhone and OpenTrails on Android
- storing KML files in a MySQL database along with information about participants
- generating static and animated visualizations of paths by building a Discrete Event Queue using Processing and Java
- creating heatmaps integrating R and Processing

**RESULTS**

**POSSIBLE DIRECTIONS**

**INSPIRATION**

*Fig. 1.* Map at Oakland Crimespotting is a good example of integrating Javascript and CloudMade to create a complex interactive application with customizable widgets.

*Fig. 2.* The Geotaggers’ World Atlas #1: New York uses Perl, OpenStreetMap and PostScript to process the number of pictures taken at various geographic locations and to generate maps that display most geotagged locations in New York City.

*Fig. 3.* Diagrammatic representation of project files. (Credit: Alex Cheng, SC11)

*Fig. 4.* Map of Smith College with two traces.

*Fig. 5.* Heat map