



Contribution ID: 2

Type: **not specified**

Managing and displaying user track data with Python

Tuesday, 10 July 2007 15:00 (30 minutes)

User studies that feature user movement in the real world or in simulated environment generate datasets, usually in the form of logfiles, that need to be stored, summarized, processed and represented. Datasets must additionally include metadata that accounts for experimental conditions. We have developed a class that produces graphical displays of user travels over a regularly-spaced grid, and a set of web-controllable database management tools that allow incremental data exploration as the user experiments progress.

Summary

- 1 The problem: making sense of user movement and user commands
- 2 Generating density maps from movement logs using a raycasting algorithm to drive gnuplot
 - 2.1 Boundary cases
- 3 An application example
- 4 A TurboGears application for managing user movement datasets

Primary author: Mr APRILE, Walter (Scuola Superiore Sant'Anna)

Co-authors: Dr FRISOLI, Antonio (Scuola Superiore Sant'Anna); Mr RUFFALDI, Emanuele (Scuola Superiore Sant'Anna); Prof. BERGAMASCO, Massimo (Scuola Superiore Sant'Anna)

Presenter: Mr APRILE, Walter (Scuola Superiore Sant'Anna)

Session Classification: Science