

Exercise 6 – Mensch-Maschine-Interaktion 2

Gaze Trail Visualization

(*Per-group homework, 1 week*)

Write a Java program which can visualize gaze and mouse trails of users who looked at a web page. The visualization should include as much information as possible, such as where the user looked, for how long the gaze lingered, the order of spots looked at, the relation of mouse and gaze, etc. Sample data is available in the following archive:

http://www.medien.ifi.lmu.de/lehre/ss07/mmi2/exercise6_data.zip

This includes one screenshot and two log files that were obtained using eye tracking equipment for different users. Each line of the log files starts with an IP number and describes an event. The IP number is followed by the event's time-stamp. The event type is specified by the keyword *event*. If *event* has the value *gaze* the time-stamp marks the end of the saccade. The start time of the saccade is defined by the keyword *start*. *offset* describes the gaze or mouse coordinates.

Submission:

- Submission is by email to arnd.vitzthum@ifi.lmu.de
- Please use a ZIP attachment named `exercise6groupN.zip` (N is the number of your group). The archive must include both source code and the corresponding `.jar` file. Furthermore, it must include the *two* visualization images produced by your program. Try to keep the attachment size below 4 MB.
- Each group must hand in one solution. Please state if anyone has left your group.
- Deadline for submission: Tuesday, July 3, 2007, 9 a.m. (Groups 1-5); Thursday, July 5, 9 a.m. (Group 6 and 7); Friday, July 6, 9 a.m.(Group 8-10) .