OGAMA OpenGazeAndMouseAnalyzer

Adrian Voßkühler, Volkhard Nordmeier, Physics Didactics; Lars Kuchinke, Experimental and Neurocognitive Psychology, Freie Universität Berlin

This **software** allows recording, importing and analyzing of eye- and mouse-tracking data in parallel. OGAMA is **open source** waiting to be adapted to suit your requirements. Its main features include database-driven pre-processing and filtering of gaze and mouse data, the creation of attention maps, areas of interest definition and replay. OGAMA is designed for analyzing gaze and mouse data recorded in experimental setups with screen based **slide show stimuli**. The spreadsheet data output can directly be used with statistical software packages.

**Recording**
- live viewer
- mouse path recording
- LPT trigger
- set custom marker
- user camera
- dual monitor capable
- event recording

**Replay**
- multiple display modes
- adjustable replay speed
- AVI video export
- change of pen styles
- event display
- timeline with markers

**Fixations**
- customizable fixation calculation
- multiple display modes
- drift correction
- change of pen styles
- import / export

**Scanpaths**
- levenshtein distances
- loci similarities
- compare groups
- single subject colorization

**Attention Map**
- custom gradients
- categorized analysis
- duration weighting
- mouse clickmaps
- custom kernel size

**Saliency Map**
- Itti & Koch salience model calculation
- custom channel selection and weighting

**Areas of Interest**
- rectangles, ellipses, polylines
- transitions, statistics
- predefined targets
- import / export
- change of styles

**Fixations**
- customizable fixation calculation
- multiple display modes
- drift correction
- change of pen styles
- import / export

**Scanpaths**
- levenshtein distances
- loci similarities
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**Database**
- SQL database driven
- data import assistant
- export all tables
- data revision and control
- filtered views

**Statistic**
- over 40 predefined variables
- customizable variables
- AOI transition matrices

1) based on LC Technologies fixation detection source code (www.eyegaze.com)
2) SMI (Sensomotoric Instruments, www.smi.de)
3) Tobii (Tobii Technology, www.tobii.com)
5) Alea (alea technologies, www.alea-technologies.com)


Share your experience with us and give it a try.
http://didaktik.physik.fu-berlin.de/ogama