Measuring and shaping peripheral responsiveness in a virtual navigation task

Goal

Discover relationships and properties of gaze capturing events in complex environments.

Place gaze capturing events on a context dependent map with context :

Position Color & Texture Task...

Measure awareness of GCE-impact

Implicit versus Explicit detection Attention shift versus gaze shift

Gaze capturir		
colors	shapes	orientat
overlay	moment of change	
	 during fixation e.g. after x milleseconds fixation on navigation target Versus during saccade e.g. when saccade is near, towards or away from GCE 	

Navigation

- number of navigation targets hits - collisions with the tunnel sides - length of followed path
- total navigation time - variability of joystick position

GCE detection

- IMPLICIT latency and direction of saccades

EXPLICIT

speed and accuracy detection response (e.g. joystick button & selection of CGE













This research was supported by the European Community through GazeCom project IST-C-033816 and by Conventions G.0583.05 and 7.005.05 of the Fund for Scientific Research-Flanders.





- Saliency map models
- GCE features
- Priming techniques



Geoffrey Hamon, Peter De Graef & Karl Verfaillie Laboratory of Experimental Psychology, University of Leuven contact : geoffrey.hamon@psy.kuleuven.be



Gaze