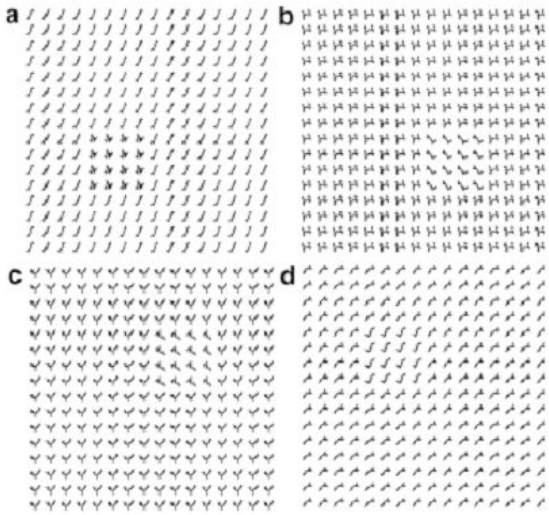
NOW YOU SEE IT, NOW YOU DON'T?

... a computational method for automatic stimulus generation for change blindness and visual pop out tasks.



PETER McOWAN

2nd March 2011

4pm Wednesday 2nd March

Ben Pimlott Lecture Theatre, Ben Pimlott Building, Goldsmiths College, New Cross, London.

All Welcome

email: m.bishop@gold.ac.uk

Change blindness, where observers have difficulty in perceiving changes between sequentially presented images, and spatial pop put where regions of target textures need to be identified, are useful tools to help explore human visual awareness.

In this talk I will present results on work that blends a computational model for image saliency and evolutionary optimisation techniques to allow the automatic custom generation of experimental stimuli.

The results show that this computational approach is able to predict observer performance in both special pop put and change blindness tasks.

Peter McOwan is currently Professor of Computer Science and Director of Outreach in the School of Electronic Engineering and Computer Science at Queen Mary, University of London.

Peter's research interests are in visual perception, mathematical models for visual processing, cognitive science and biologically inspired hardware and software.

Peter was elected a National Teaching Fellow by the Higher Education Academy in 2008.