

Call for papers
Architectures for Active Vision
A Symposium of the AISB Convention
4 - 5 April 2011
University of York, United Kingdom

Supported by the
Society for the Study of Artificial Intelligence and Simulation of Behaviour

The symposium theme is 'Architectures for Active Vision'. Contributions from researchers interested in the control of vision and visual attention are sought. Vision is arguably the most researched function of the brain. Nonetheless, high level visual information processing is still poorly understood.

A major problem in perception is the volume of information acquired by the body's sensors. Passive approaches to selection of information may deal with the overload by focussing processing on particularly salient inputs. Active vision takes the further step of directing the acquisition of information in a goal-directed manner, in which top-down information plays an important role, possibly overriding saliency in selection of actions. This shift in perspective connects vision with important issues for cognitive systems as a whole, such as action selection, planning and goal-driven behaviour

The aim of the symposium to bring together researchers and research groups with interests including (but not limited to)

- Brain architectures for active vision
- The neural basis for action selection, particularly in vision
- High level modelling in software and hardware of structure or mechanisms from the visual system.

Contributions may span experiment and theory from neurobiology, through cognition to bio-inspired software/hardware applications.

The symposium will be two days duration (4 - 5 April). The first day will consist of presentations of refereed work from participants, to share the ideas which contribute to the second day discussions. The second day will be built around a facilitated panel discussion aimed at the development of ideas (and proposals) for further collaborative work. Invited speakers will set the tone of the symposium, and a poster session will allow wider participation.

The AISB Convention as a whole will include 11 individual symposia. All meals, facilities and social events are shared by the Convention in common. All symposium participants must register for the convention (not for individual symposia). More details about the convention can be found at their website: <http://www.aisb.org.uk/convention/aisb11/>

How to contribute to the Symposium

Papers of about 6 - 8 pages that respond to the topics listed above are invited. Papers should include an abstract of not more than 200 words and should be submitted as an anonymous PDF file (that is, with name and affiliation details omitted) by email (including your name and contact details) to the Symposium organiser, Simon O'Keefe, at simon.okeefe@york.ac.uk, by 10th January 2011. Submissions will be acknowledged within 7 days.

Accepted papers will be included in the Symposium and Convention proceedings, published by AISB.

Expressions of interest in attending the symposium (but without giving a paper) are also invited, in the form of an abstract of no more than 200 words indicating your background and interest in the subject of the symposium. Send these as plain text emails to the organiser.

Programme Committee for this symposium

- Jim Austin (University of York)
- Netta Cohen (University of Leeds)
- Kevin Gurney (University of Sheffield)
- Marc de Kamps (University of Leeds)
- Simon O'Keefe (University of York)
- Tom Stafford (University of Sheffield)
- Thomas Wennekers (University of Plymouth)
- Stefan Wermter (University of Hamburg)

Important dates

10 th January 2011	Submissions due
7 st February 2011	Decisions on acceptance
28 th February 2011	Camera ready copies due
(tbc - check website)	Early registration deadline
4-7 April 2011	AISB 2011 convention

Symposium URL: <http://www.cs.york.ac.uk/ActiveVision>