



Visual Space Perception and Eye Movements

Presented by Markus Lappe

University of Muenster, Germany

Wednesday 17th February 2016, 1pm – 2pm
Bankstown Campus
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Abstract:

Eye movements are an integral part of vision, and used in most everyday behaviors to acquire visual input. However, eye movements also produce problems for visual perception as the retinal image rapidly changes during an eye movement. A number of short-lived visual illusions are associated with the occurrence of an eye movement. These illusions show that visual space is neither uniform nor static. My talk will present behavioral experiments and computational neural models to better understand the dynamics of visual space perception and the role of eye movements in the internal representation of visual space.

Biography:

Markus Lappe is Full Professor for Experimental Psychology and Cognitive Neuroscience at the University of Muenster, Germany. His lab pursues a theoretical and model-driven approach to experimental psychology/neuroscience in the field of visual perception and its cognitive control. Markus Lappe received his original training in physics and graduated from the University of Tuebingen, Germany, in 1992. After research positions at the Max-Plank-Institute for Biological Cybernetics in Tübingen, the National Institute of Mental Health, USA, and the Ruhr University Bochum he became Professor of Psychology at the University Muenster in 2002. Similar to this background, his lab forms an interdisciplinary research community with members coming from psychology, biology, physics, computer science, mathematics, and electrical engineering. Research included computational modelling and psychophysical and electrophysiological experiments on motion perception, eye movements, spatial vision and virtual reality. Markus Lappe was awarded the Biofuture Prize by the German Ministry for Research and Education in 1999. He served as Director of the Institute for Psychology II from 2002 to 2010 and as Dean of the Department from 2010 to 2012. He is currently on sabbatical at Western Sydney University.

RSVP: ssap-research@westernsydney.edu.au by 12/2/16