



Visual Computing and Biological Vision

A special track of the INTERNATIONAL SYMPOSIUM ON VISUAL COMPUTING 2006 (ISVC06)
<http://www.isvc.net/>

Rationale

This special track aims to explore the interplay between research in visual computing and human visual perception. Developments in computer vision and graphics continue to provide new stimuli and techniques for probing and analyzing human vision and its neural bases. In turn, studies of biological vision have revealed processes that are fundamental to efficient and optimal coding, and human performance remains a benchmark for assessing machine vision. Finally, techniques in areas such as visualization and virtual reality must be informed by the capacities and limits of human observers. Papers in this track are sought that focus on these many links between computational and biological information processing.

Topics

Topics of interest include all aspects of visual computing applied to (or inspired by) biological systems, including, but not limited to, the following areas:

- Neuroscience applications of graphics and visualization (such as neuro-imaging and psychophysics)
- Computational models and empirical constraints in biological vision
- Design principles motivated by biological systems
- Human factors in visualization and virtual reality

Submission/Proceedings

This is an open call-for-papers. Only original, high-quality papers, in-line with the ISVC '06 standard guidelines (<http://www.isvc.net/author.html>) will be considered for publication in this special track. Prospective authors should submit electronically their contributions through the website of ISVC '06. Accepted papers will appear in the symposium proceedings, which will be published by Springer-Verlag in the Lecture Notes in Computer Science (LNCS) series.

Important Dates

Submission deadline:	June 19, 2006
Notification of acceptance:	July 31, 2006
Camera-ready version:	August 14, 2006
Advance Registration:	August 14, 2006

Special Track Organizers

Jeff Mulligan, *NASA Ames Research Center*, jmulligan@mail.arc.nasa.gov
Alice O'Toole, *University of Texas at Dallas*, otoole@utdallas.edu
Michael Webster, *University of Nevada at Reno*, mwebster@unr.edu