

Eurographics Workshop on Visual Computing for Biology and Medicine

September 27-28, 2012 - Norrköping, Sweden



Aims and Scope

The EG VCBM workshop addresses state-of-the-art visualization and image analysis research with an application in biology and medicine. EG VCBM is unique, as it brings together researchers and practitioners from visualization and image analysis, working towards solutions for biology and medicine driven applications. In the past, we attracted a versatile group of attendees with backgrounds in various subareas of computer science, as well as biology and medicine.

EG VCBM solicits the submission of original application-oriented research papers that advance the fusion of visualization and image analysis within imaging-based medicine and biological science. All papers should focus on a well-defined biological or medical problem, and should demonstrate a significant innovation or improvement in visual computing. Suggested topics for papers include, but are not limited to:

- Applications in cardiovascular medicine, radiology, surgery and other medical disciplines.
- Applications in cell biology, molecular biology, developmental biology and other biological disciplines.
- Geometry reconstruction from image data, such as microscopic or radiological data.
- Creation and visual analysis of atlases, databases and ontologies.
- Interactive segmentation and registration.
- Multi-field/multimodal visualization and processing.
- Computer-aided diagnosis and detection.
- Visual analysis of gene sequence and gene expression data.
- Visual analysis of proteomics and interactomics data.
- Processing and analysis of biological pathways and networks.
- Visualization and simulation for surgical training.
- Intra-operative guidance for surgery.
- Perception-based studies with an application in biology or medicine.

Submission Information

Accepted papers will be presented at the workshop and will appear in the EG-published conference proceedings.

Important Dates

Paper submission: June 29, 2012
Author notification: July 29, 2012
Camera-ready deadline: August 20, 2012
Workshop: September 27-28, 2012

Program Chairs

Timo Ropinski (Linköping University, Sweden)
Anders Ynnerman (Linköping University, Sweden)
Charl Botha (Technical University Delft, The Netherlands)
Jos Roerdink (University of Groningen, The Netherlands)

