VCBM 2019
9th EG Workshop on Visual Computing for Biology and Medicine

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| VCBM 2019 | Chairs & Committees | For Submitters | For Attendees | Registration | Venue | Call for Sponsors | Awards |

For submitters

General Call

Aims and Scope

EG VCBM, the Eurographics Workshop on Visual Computing for Biology and Medicine, is an annual event addressing the state of the art in visual computing research with a strong focus on applications in biology and medicine. It provides an interdisciplinary forum for experts (researchers and practitioners) from visualization, visual analytics, computer graphics, image processing, computer vision, human computer interfaces as well as experts from biology and medicine, jointly working on next generation visual computing solutions for medicine, healthcare and the biotechnology sector.

EG VCBM solicits the submission of original, application-oriented research papers that advance the fusion of visual computing methods within medicine and biology. All papers (regular papers as well as short papers) should focus on a well-defined biological/medical problem, and demonstrate a significant innovation or improvement in visual computing.

Suggested topics for papers include, but are not limited to:

- Visual computing solutions for medical applications like radiology, surgery, pathology, cardiology, nephrology, neurology, etc., including medical education
- Visual computing solutions for applications that support biomedical research in systems biology, *omics research, molecular pathology, neuroanatomy, biomedical imaging, etc.
- Medical simulation and visual computing solutions that support new approaches in computational medicine, including also the uses of stereoscopy and haptics
- Visualization approaches for data from new or challenging imaging modalities including real-time imaging (e.g., ultrasound)
- Visual computing solutions in the context of the virtual physiological human
- Survey papers on visual computing in biology and medicine

Methods might include, but are not limited to:

- Visualization and analysis of all kinds of biomedical data (signals and images)
- Visualization, mining and analysis of biomedical data collections, including cohort data
- Information visualization of medical data sets, e.g., electronic health records
- Computer models of biomechanical, physiological, and biochemical functions in living systems
- Fusion, analysis and visualization of heterogeneous and/or multi-source data
- Multi-scale methods and data structures for large data
- Interaction and design of visual computing workflows in medicine and biology
- Data tracking and registration
- Data reconstruction and geometry extraction
- Real time rendering and interaction with anatomy models

The general call is applicable to all tracks: full papers, short papers, surveys, posters and image contest. Please refer to the respective pages for more details on each track.

Important Dates

Workshop dates: 4
FP & SP submission:
FP & SP notification:
Registration opens:
Camera-Ready version:
Posters submission:
Posters notification:
Image Contest:
Announce all accepted:
Early bird registration until:

Announcements

The registration is opened
early bird deadline is on Au

VCBM hosts ML School

Open Call for Computers and
Special Section on VCBM

Image Contest Guidelines

Previous Workshops

EG VCBM 2018
EG VCBM 2017
EG VCMB 2016
EG VCMB 2015
EG VCMB 2014
EG VCMB 2012
EG VCMB 2010
EG VCMB 2008

Sponsors

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