BioMedVis

Speaker's Invitation for BioMedSpring, the first Spring School on BioMedical Visualization

https://BioMedVis.github.io/

Online event, May 17 - 21, 2021

Motivation and Concept

In 2020, a group of researchers in BioMedical Visualization met up in Shonan, Japan to discuss the future of our field. One of the most crucial points of this meeting was the need for a unifying educational platform, which will focus on the continuing education of new generations of researchers. Following the paradigm of last year's online education, we are starting an initiative across institutions for an educational **BioMedVis** platform. The purpose is to build a growing curriculum that will bridge the domains of biological, medical, and biomedical visualization. Study materials from diverse fields will be collected at different levels of detail and with varying required preliminary knowledge. As a starting point, we are organizing **BioMedSpring**: a spring school, which will offer a set of talks on various visualization subjects from prestigious and established researchers, addressing different life sciences domains. This will serve as a basis for our online platform to grow and offer continuously more and more topics. At the same time, student participants will have a chance to meet experts from all facets of our field.

Format of the BioMedSpring

- A one-week spring school, which will offer a set of talks on selected topics, practical tutorials, and clinical/industrial/mentoring talks.
- The selected topics will focus on basic theoretical and on specific application aspects, which have been already preselected by the organizational committee of **BioMedSpring**.

Who is the target audience?

The spring school is primarily aimed at M.Sc. and Ph.D. students in Computer Science (but not limited to these), who want to learn more about the principles and challenges in visualization, targeting Life Sciences applications.

What we expect from the speakers?

The speakers should prepare a talk for a dedicated topic in a given time frame, which should be preferably presented “live” at the event. However, if this is not possible, the talk can be also pre-recorded. The speaker should be able to join the live Q&A session directly after the presentation of the talk, according to the program schedule. Live talks will be recorded and used as material in the educational platform.

Organization Committee of BioMedVis

Johanna Beyer (Harvard University, USA)
Jan Byška (Masaryk University, CZ)
Ingrid Hotz (Linköping University, SE)
Barbora Kozlíková (Masaryk University, CZ)
Torsten Möller (University of Vienna, AT)
Renata Georgia Raidou (University of Groningen, NL & TU Wien, AT)
Noeska Smit (University of Bergen, NO)
Hsiang-Yun Wu (TU Wien, AT)

Preliminary program of BioMedSpring

CET	Monday, 17th May 2021	Tuesday, 18th May 2021	Wednesday, 19th May 2021	Thursday, 20th May 2021	Friday, 21st May 2021
14.00–15.00	● Opening and Participants Introduction	m Multiscale BioMedical Visualization	m Flow Visualization	m BioMedical Time-Varying Data Vis	m Visual Analytics and Visual Data Science
● Break (15 mins)					
15.15–16.15	m On BioMedical Data	m Volume Rendering	m Omics Vis	m Vis and Communication	m On Evaluation
● Break (15 mins)					
16.30–17.30	m Image Processing	a Vis in Neuroscience	a AR/VR in BioMedicine	Bring your image	a BioVA
	m Medical Image Analysis	a Rendering Big Environments	a Blood Flow Vis		a MedVA
● Break (15 mins)					
17.45–18.15	a Multimodal Vis	Mentoring PhDs	Tutorial 2	Pathways Vis	Industry Talk
18.15–18.45	a Healthcare Vis			Perception and Color	● Round Table and Closing
● Break (15 mins)					
19.00–19.30	a Provenance	Tutorial 1	Tutorial 3	● Social Event	
19.30–20.00	Clinical Talk				

● Opening and Closing
m Methods Talks
a Applications Talks
Mentors and Practitioners
Tutorials
● Social Events

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