The 2017 International Workshop on Big Data and Visualization for Brainsmatics (BDVB 2017)

November 16, 2017 in Beijing, China

Introduction

With the development of the Micro-Optical Sectioning Tomography (MOST) serial techniques, people can visualize the brain-wide neuronal networks with high temporal-spatial resolution and specific spatial location. Brainsmatics makes it possible to better decipher the brain function and disease and promote the brain-inspired artificial intelligence, based on brain structural and functional data expressed by three-dimensional fine brain atlas of neuron types, neural circuits and networks, vascular network.

The BDVB 2017 workshop will be co-located with the 2017 International Conference on Brain Informatics, November 16th, 2017 in Beijing, China. We invite researchers and scientists to submit their high-quality and original works in Big Data and Visualization for Brainsmatics.

[On-line Submission]

Topics of Interest

For brainsmatics, big data and visualization technologies are essential. In proposed workshop, research topics include but are not limited to one or more of the following aspects:

- Big Image Data Management
- Data Compression and Transmission
- Nonlinear 3D Image Registration
- Quality Controls and Standardization: Adjustment, Denoising, Restoration and Alignment
- Intelligent Reconstruction Technologies
- Visualizing Big Data
- Quantitative Analysis
- Toolbox, Pipeline and Solutions for Handling Big Data
- High Performance Computing
- High-resolution Brain atlas of mammals
- Database and Data Sharing
- Practices and Applications in Scientific Discovery

Submissions and Publication

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Similar to the main conference of BI 2017, there are two types of paper submissions that are possible:

TYPE I: Full Paper Submissions. Authors should submit their full papers with a maximum paper length of up to 10 pages in Springer LNCS format using our online submission system. The accepted and presented papers will be published by Springer as a volume of the series of LNCS/LNAI.

TYPE II: Abstract Submissions. Abstracts have a word limit of 500 words. Experimental research is particularly welcome. Accepted abstract submissions will be included in the conference program and will be published as a single, collective proceedings volume.
All submissions will be reviewed by at least two reviewers who will give detailed comments. If the submission gets accepted, the authors will submit a revised ("camera-ready") version that takes into account this feedback.

Important Dates

- Submission deadline for workshop/special session papers (TYPE I): June 20, 2017
- Notification of workshop paper acceptance: June 30, 2017
- Camera-ready copies of accepted papers: July 10, 2017
- Submission deadline for abstracts (TYPE II): July 20, 2017
- Workshop date: November 16, 2017
- Main Conference: November 17-18, 2017

Workshop Chairs

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