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.

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
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.

**Workshop Chairs**

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