The 2017 International Workshop on Brain Big Data based Wisdom Service (BBDBWS 2017)

November 16, 2017 in Beijing, China

Introduction

The Wisdom Web of Things (W2T) provides a social-cyber-physical space for all human communications and activities, with big data connecting humans, computers, and things. Specifically, W2T integrates brain-related big data and human behavior-related big data in a social-cyber-physical space to realize a harmonious symbiosis.

Brain informatics provides the key technique for implementing such an attempt by offering informatics-enabled brain studies and applications in a social-cyber-physical space, thereby forming a brain big data cycle. This cycle is implemented by processing, interpreting, and integrating multiple forms of the "brain big data" obtained from molecular and neuronal circuitry levels via advanced neuroimaging technologies, such as functional magnetic resonance imaging (fMRI), magnetoencephalography (MEG), electroencephalography (EEG), functional near-infrared spectroscopy (fNIRS), positron emission tomography (PET), and wearable, portable micro and nano devices.

Brain big data not only help scientists improve their understanding of human thinking, learning, decision making, emotion, memory, and social behavior, but such data also help cure diseases, assist in mental healthcare and well-being, and encourage further development of brain-inspired intelligent technologies.

The BBDBWS 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 Brain Big Data based Wisdom Service.

[On-line Submission]

Topics of Interest

- Brain informatics based studies on human cognition, emotion and their relationship
- Cognitive behavioral performance of mild depressed patients
- Smart ward service for depression under the WaaS architecture
- Ontologies for smart ward
- Brain big data based wisdom service portal
- Automated functional connectivity analysis for fMRI data
- Automated neuronal reconstruction

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.

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