



The 2013 International Conference on Brain and Health Informatics (BHI 2013)

October 29-31, 2013, Maebashi, Japan



Call for Papers

<http://wi-consortium.org/conferences/amtbi13/>

Neuro-/Life Sciences Meet Informatics

Brain and Health Informatics (BHI) aims to develop and disseminate understandings of novel intelligent computing formalisms, techniques, and technologies in the special application contexts of brain and health/well-being related studies and services. It is devoted to interdisciplinary studies on BHI, covering computational, logical, cognitive, neuro-physiological, biological, physical, ecological, and social perspectives of BHI.

BHI'13 aims to provide a leading international, interdisciplinary forum to bring together researchers and practitioners that explore the interplay between studies of human brain and health/well-being related issues and advents of computer science and information technologies. For instance, emerging advanced information technologies, such as Internet/Web of things (IOTWOT), the wisdom Web of things (W2T), cloud computing, may be applied to brain studies. Informatics-enabled brain studies, e.g., based on functional magnetic resonance imaging (fMRI), electroencephalogram (EEG), positron emission tomography (PET), and eye-tracking, can significantly broaden the spectrum of theories and models of brain sciences, which will in turn offer new insights into the development of intelligent computing systems and informatics. BHI will feature high-quality, original research papers in all theoretical, technological, clinical, and interdisciplinary studies that make up the field of brain/health informatics.

The systematic BHI methodology has resulted in the BHI big data, including various raw brain data, data-related information, extracted data features, found domain knowledge related to human intelligence, and so forth. A brain data centre needs to be constructed on the W2T and cloud computing platform for effectively utilizing the "data wealth" as services, which provides big opportunities for both fundamental and clinical researches with respect to cognitive science, neuroscience, and mental health. The most challenging problem is to curate BI big data, which can be characterized by four parameters: volume, variety, velocity, and value, in order to support data sharing and reuse among different BI experimental and computational studies for generating and testing hypotheses about human and computational intelligence.

BHI'13 will be jointly held with the International Conference on Active Media Technology (AMT2013).

The topics and areas include, but not limited to:

- Thinking and perception-centric investigations of human information processing systems
- Information technologies for curating, mining, managing and using big brain/health data
- Applications (e.g. e-Science, e-Health and e-Medicine; brain/cognition inspired artificial systems; clinical diagnosis and pathology of human brain and mind-related diseases)
- Neuroeconomics, neuromarketing, and neurolinguistics
- Brain-Computer-Interface (BCI)
- Information technologies for healthcare delivery and management
- Healthcare decision support
- Human Neuro/Life Sciences
- Informatics on human health

IMPORTANT DATES

Electronic submission of full papers: **April 15, 2013**
 Notification of paper acceptance: **June 30, 2013**
 Camera-ready of accepted papers: **July 21, 2013**
 Conference: **October 29-31, 2013**

Electronic submission of abstracts: **July 15, 2013**
 Notification of abstract acceptance: **July 30, 2013**

PAPER SUBMISSION

High-quality papers in all BHI related areas are solicited. Papers exploring new directions will receive a careful and supportive review. All submitted **full-papers** will be reviewed on the basis of technical quality, relevance, significance, and clarity. Authors also can choose **abstract-only** submissions.

All accepted **full-papers** will be published by Springer as a volume of the series of Lecture Notes in Computer Science/Lecture Notes in Artificial Intelligence (LNCS/LNAI). Extensions of selected papers from the proceedings and selected abstracts will be considered for publication in special issues of international journals.

Authors are strongly encouraged to use Springer LNCS/LNAI manuscript submission guidelines (available at <http://www.springer.de/comp/lncs/authors.html>) for their initial submissions (a maximum of 12 pages in Springer LNCS/LNAI style file). All papers must be submitted electronically in PDF format only, using the conference management tool.

Detailed instructions and a full-paper or abstract-only submission form can be found the BHI13 Web page at <http://wi-consortium.org/conferences/amtbi13/>

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