



**Brain Informatics 2023 Workshop on  
Brain Informatics meets Web Intelligence (BIImWI' 23)**

**August 1 - 3, 2023**

**Introduction**

W2T (Wisdom Web of Things, i.e. Web Intelligence (WI) = AI in the connected world) developed recently provides a cyber-physical-social space for all human communications and activities, in which big data are used as a bridge to connect relevant aspects of humans, computers and things. By meeting WI with Brain Informatics (BI), brain computing is a big challenge in the era of open and shared brain big data with respect to brain intelligence, brain health and brain internet. The workshop aims to address the following important and intriguing questions, including how to understand brain from neural microcircuits to macroscale intelligence systems, supported by connecting network and brain with big data; how to utilize the power of human brains and man-made networks to create a better-connected world in the 5G era; how to realize human-level collective intelligence as a big data sharing mind on the W2T by brain computing for developing brain inspired technologies to provide wisdom services. The synergy between BI and WI advances our ways of analyzing and understanding of data, knowledge, intelligence, and wisdom, as well as their interrelationships, organizations, and creation processes.

[\[On-line Submission\]](#)

**Topics of Interest**

Research topics of interest include, but not limited to:

- Systematic investigations for complex brain science problems
- BI studies based on WI research needs
- New information technologies for supporting systematic brain science studies
- Human-level collective intelligence
- Brain big data interacts in the social-cyber-physical space
- Brain big data computing and service

- Brain-machine intelligence and brain-inspired computing
- Text mining for brain informatics
- Knowledge graph for brain informatics
- BI based studies on cognition, emotion and disease
- Intelligence health technology
- Multi-task analysis, multimodal analysis, and meta-analysis
- Fusion computing of multi-source data, information and knowledge

Submission and Publication [[Enter](#)]

Similar to the main conference, there are 2 types of paper submissions that are possible:

**Type I** : Full Paper Submissions. Papers need to have up to 10 pages in LNCS format using our online submission system. All full-length papers accepted 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.

Workshop and Special Session full papers will be published at the same **BI proceedings at the Springer-Nature LNAI Brain Informatics book series**.

Accepted full papers will be selected to publish in a special issue at **Brain Informatics Journal (Springer-Nature)** upon significant revision.

#### **Workshop Chairs**

- Jianzuo Yan, Faculty of Information Technology, Beijing University of Technology, China. Email: yanjianzhuo@bjut.edu.cn
- Jianhui Chen, International WIC Institute, Faculty of Information Technology, Beijing University of Technology, China. Email: chenjianhui@bjut.edu.cn
- Jiajin Huang, International WIC Institute, Faculty of Information Technology, Beijing University of Technology, China. Email: jhuang@bjut.edu.cn

#### **Important Dates:**

Jun 2023: Abstract presentation submission deadline

3 Jun 2023: Final paper and abstract acceptance notification

20 Jun 2023: Accepted paper and abstract registration deadline

1-3 Aug 2023: The Brain Informatics Conference

Please visit the Main Conference Submissions Page at <http://wi-consortium.org/conferences/bi2023/index.html> for more details on submission formats. Note that the papers should be submitted to the correct Workshop using the link at the bottom on the page.