The 20th IEEE/WIC/ACM International Conference on Web Intelligence and Intelligent Agent Technology
14 – 17 December 2021 | Melbourne, Australia
A Hybrid Conference with both Online and Offline Modes

WI-IAT 20th Anniversary

WI-IAT 2021 Workshop on
Web Intelligence meets Brain Informatics (WImBI'21)

December 14, 2021 (online mode)

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 WI and BI advances our ways of analyzing and understanding of data, knowledge, intelligence, and wisdom, as well as their interrelationships, organizations, and creation processes.

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

Workshop Chairs

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Important Dates:
Paper submission deadline: Aug 30, 2021
Notification of acceptance: October 1, 2021
Workshop day: December 14, 2021

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

- Type 1: Full Paper Submissions. Papers must be submitted electronically via CyberChair in standard ACM Conference Proceedings format (max 8 pages, templates at https://www.acm.org/publications/proceedings-template). Submitted papers will undergo a peer-review process, coordinated by the International Program Committee.
- Type 2: Abstract Submissions. Abstracts have a word limit of 500 words. Experimental research is particularly welcome.

Please visit the Main Conference Submissions Page at https://www.wi-iat.com/wi-iat2021/ 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.