



The 16th International Conference on Brain Informatics (BI 2023)

1 – 3 August 2023, Hoboken & New York – USA

Brain Science meets Artificial Intelligence



The 3rd International Workshop on Computational Brain Image Analysis and Genomics (CBIAG)

Call for Papers and Abstracts

Introduction

The special session is aimed to gather and review the state-of-the-art computational methods for brain image analysis and genomics, including the analysis of brain function, structure and its genetic basis. The session will contribute to the field by discussing exciting research and methods in analyzing brain images, as well as its genetic basis. This session will also be broadening our thinking about the computational methods that facilitate biology discoveries and clinical applications, and investigating cutting-edge software tools for brain image analysis and genomics.

The special session invites researchers and scientists to submit their high-quality and original work in all areas of brain informatics and brain image analysis, which are focused on the investigation of computational and informatics strategies for revealing the brain function, structure and genetic basis of normal and/or abnormal function of the nervous system to advance both brain informatics and medical image analysis.

Topics of Interests

The topics include, but are not limited to:

- Machine learning methods for fMRI or sMRI analysis
- Brain Network identification from fMRI
- Neurogenetics of imaging phenotypes
- Brain imaging genomics
- Deep learning methods for fMRI data
- Big data mining methods for fMRI data
- Neurogenetics of cognitive and behavior data
- Neurogenetics of multi-omics data
- Systems biology in neurogenetics
- Text and literature mining for fMRI data

Submissions and Publication

Similar to the main conference of BI 2023, we welcome two types of paper submissions:

- Type I : Full Paper Submissions. Authors should submit their full papers with a maximum paper length of up to 10 pages including figures and references in Springer LNCS format. Additional pages will be charged. The accepted and presented papers will be published by Springer as a volume of the series of LNCS/LNAI. Submit your abstracts via https://wi-lab.com/cyberchair/2023/bi23/scripts/ws_submit.php?subarea=S
- Type II: Abstract Submissions. Each abstract submission should include the title of the paper, an abstract body within 500 words, and up to 5 keywords. Experimental research is particularly welcome. Research abstracts will be accepted for presentations in an oral presentation format and/or poster presentation format. Authors can indicate their presentation preferences during online submission. Abstracts accepted for oral presentation will be given an option to also be considered for a poster presentation for more demonstrations and discussions. Submit your abstracts via https://wi-lab.com/cyberchair/2023/bi23/scripts/ws_submit.php?subarea=S

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.

Important Dates:

- April 15th, 2023: Submission deadline for workshop/special session/tutorial proposals (Extended)
- July 1st, 2023: Submission deadline for full papers
- July 1st, 2023: Abstract submission deadline
- July 1st, 2023: Submission deadline for workshop/special session papers
- July 1st, 2023: Notification of full paper acceptance
- July 1st, 2023: Notification of abstract acceptance
- July 1st, 2023: Notification of workshop/special session papers
- July 15th, 2023: Final paper and abstract submission deadline
- July 25, 2023: Paper registration deadline
- August 1 - 3, 2023: Main conference

Session Chairs:

Shijie, Zhao Ph.D. (Chair)

Associate Professor

School of Automation, Northwestern Polytechnical University

127 West Youyi Road, Xi'an, Shanxi, 710072, P.R.China

Email: shijiezhao@nwpu.edu.cn

Tuo Zhang, Ph.D. (Co-Chair)

Associate Professor

School of Automation, Northwestern Polytechnical University

127 West Youyi Road, Xi'an, Shanxi, 710072, P.R.China

Email: tuozhang@nwpu.edu.cn

Lei Du, Ph.D. (Co-Chair)

Associate Professor

School of Automation, Northwestern Polytechnical University

127 West Youyi Road, Xi'an, Shanxi, 710072, P.R.China

Email: dulei@nwpu.edu.cn

Xintao, Hu Ph.D. (Co-Chair)

Professor

School of Automation, Northwestern Polytechnical University

127 West Youyi Road, Xi'an, Shanxi, 710072, P.R.China

Email: xhu@nwpu.edu.cn