

The 3rd International Workshop on Cognitive Neuroscience of Thinking and Reasoning (CNTR 2021)

In the frame of the 14th Brain Informatics Conference (BI 2021)

Padova, Italy

September 17-19 2021

Chairs and Organizers:

Prof. Dr. Peipeng Liang

Professor of the School of Psychology, Capital Normal University

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Workshop Presentation

For the past 20 years, brain imaging and modulation techniques such as EEG, functional MRI, MEG, rTMS, and tDCS have allowed us to explore the neural correlates of human thinking. These two decades of research have led to a number of interesting findings regarding reasoning, problem-solving, creativity, concept formation, and decision-making. These data have led to some specific proposals regarding information processing mechanisms underlying thought processes, and more generally led to reevaluation and reconsideration of cognitive theories in a neural context.

The goal of this workshop is to take stock of the current state-of-the-art of the

enterprise, and provide a forum for the exchange of ideas from the various related disciplines, including psychology, cognitive neuroscience, and artificial intelligence. Papers or abstracts related to new models and theories, experimental studies, meta-analysis as well as review articles of human thinking and reasoning are especially encouraged.

The topics of interest include, but are not limited to:

Brain imaging studies of human thinking and reasoning

Neuropsychology of human thinking and reasoning

New models and theories of human thinking and reasoning

The interaction between human thinking/reasoning and emotion

The influence of language and culture on human thought processes

Computational modeling of human thinking and reasoning

Academic Committee:

Aron Barbey, University of Illinois

Antao Chen, Southwest University

Jelmer P. Borst, University of Groningen

Gopikrishna Deshpande, Auburn University

Ke Jiang, Wenzhou Medical University

Daniel Krawczyk, The University of Texas at Dallas

Fuhong Li, Jiangxi Normal University

Hesheng Liu, Harvard Medical School

Changquan Long, Southwest University

Ira Novak, Centre National de la Recherche Scientifique (CNRS)

Jerome Prado, Centre National de la Recherche Scientifique (CNRS)

Jiang Qiu, Southwest University

Marco Ragni, University of Freiburg

Edward Stupple, University of Derby

Pei Sun, Tsinghua University

Niels Taatgen, University of Groningen

Oshin Vartanian, University of Toronto

Jin Luo, Capital Normal University
Zhengyan Wang, Capital Normal University
Yingrui Yang, Rensselaer Polytechnic Institute
Xinlin Zhou, Beijing Normal University
Guangtian Zhu, East China Normal University
Vinod Goel, York University
Peipeng Liang, Capital Normal University

Important Dates:

April 30, 2020: Submission Deadline
June 1, 2020: Author Notification
July 15, 2021: Registration/Camera ready deadline
September 17-19, 2020: Program ready

Submission Instructions:

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 the **Springer Open Access Brain Informatics Journal (Springer-Nature)** upon significant revision.

Please visit the Main Conference [Submissions Page](https://bi2021.org/index.php) (https://bi2021.org/index.php) 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.