

# **The 4rd International Workshop on Cognitive Neuroscience of Thinking and Reasoning (CNTR 2022)**

In the frame of the 15th Brain Informatics Conference (BI 2022)

Padova, Italy

July 15-17 2022

## **Chairs and Organizers:**

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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 revaluation 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

**Important Dates:**

28 February 2022: Paper submission deadline  
15 March 2022: Abstract submission deadline  
15 April 2022: Paper acceptance notification  
20 April 2022: Notification of abstract acceptance  
30 April 2022: Final paper and abstract submission deadline  
5 May 2022: Accepted paper and abstract registration deadline  
15 July 2022: Workshop (Half Day)

**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 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.