

Special Issue

Cognitive Processes in Human–AI Interaction: Neural and Behavioral Insights

Message from the Guest Editor

Cognitive control is a fundamental cognitive ability that allows us to regulate our behavior, emotions and thoughts, both in individual contexts and in social interactions. Our social world is evolving toward a complex fusion of real-life and virtual interactions, with the boundary between the two gradually fading, especially for individuals in developmental stages or those with psychopathological vulnerabilities. The social implications of the rise in human–AI interactions, and even relationships, are of great public interest, yet remain insufficiently understood by the scientific community. This Special Issue aims to investigate the role of cognitive control in human–AI interaction by investigating behavior and the underlying neural circuitry. We welcome theoretical and empirical contributions that enrich our understanding of cognitive control in human–AI interactions, with particular attention to its neural basis, societal implications, and impact on individuals in developmental stages as well as those with psychiatric or psychopathological conditions.

Guest Editor

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