Multimodal Technologies and Interaction

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Coupling Computation and Human Cognition through Interaction Design

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Message from the Guest Editors

Dear Colleagues,

The focus of this special issue is on human cognition and computation *teaming together* to achieve goals of complex activities. We are interested in cases where human cognition and computation form a *partnership* and jointly carry out tasks. In such contexts, coupling is achieved through *interaction* between humans and computational artifacts. Thus the focus of the issue is on coupling computation and cognition through *interaction design*. This special issue welcomes general theories, models, and frameworks as well as applications in specific domains. Topics of interest include (but are not limited to):

- Coupling human cognition and machine learning
- Interactive visualization and visual analytics
- Human-in-the-loop analytics
- Joint cognitive systems
- Interactive model steering
- Interactive data-driven learning
- Human-computer joint reasoning
- Mixed-initiative interaction
- Cognitive systems engineering

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Guest Editors