

## Assistive technologies in spatial environments

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**Abstract** Spatial Cognition is concerned with the acquisition, organization, utilization and revision of knowledge about spatial environments, be it real or abstract, human or machine. For persons with cognitive disabilities, spatial cognition is frequently challenged. For developers, addressing spatial cognition as a component of the design process is critical. This session will focus on research and development of new cognitive technologies designed to facilitate spatial cognition and

ameliorate barriers to activity and participation for persons with cognitive disabilities. Research and engineering projects under design and development within the Rehabilitation Engineering Research Center for Advancing Cognitive Technologies RERC-ACT) will be highlighted.

**Keywords** Spatial cognition • Spatial environments • Disabilities • Cognitive technology

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