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# Spatial Cognition and Action

Faculty of Psychology - Sapienza University of Rome

4<sup>th</sup> International Conference on Spatial Cognition

## Keynotes

**ALAIN BERTHOZ**

(Collège de France)

*Neural basis of cognitive strategies for spatial memory during navigation. Implications for neurology and psychiatry*

**JUAN LUPIÁÑEZ**

(University of Granada)

*Orienting attention in space: Externally and internally-driven attentional capture and voluntary control*

**CHRISTIAN FREKSA**

(University of Bremen)

*Spatial reasoning for intelligent action and for human-robot interaction*

**TOM ORMEROD**

(Lancaster University)

*Satisficing and optimizing in spatial problem-solving*

**BARBARA TVERSKY**

(Stanford University)

*Segmenting and connecting time and space*

## Symposia

**Action and cognition: The role of gesture in symbolic spatial reasoning**  
Convenor: **Thomas F. Shipley**, Temple University

**Environmental determinants of orientation and navigation**  
Convenors: **Christoph Hölscher**, University of Freiburg; **Anna-Maria Nenci**, Lumsa; **Renato Troffa**, University of Cagliari

**Gaze and cognitive control in motor performance**  
Convenor: **Joan Vickers**, University of Calgary

**Spatial and cognitive awareness in human-sensors environments**  
Convenors: **Tiziana Catarci**, Massimo Mecella, Sapienza University of Rome; **Marco Aiello**, University of Groningen

**Spatial Language and Spatial Cognition**  
Convenor: **Dedre Gentner**, Northwestern University

**Spatial models meet spatial language: Computational and formal models for linguistic and spatial representation**  
Convenor: **Joana Hois and Yohei Kurata**, University of Bremen

**Spatiotemporal Music Cognition**  
Convenor: **Petri Toiviainen**, University of Jyväskylä

**The neurocognition of categorical and coordinate spatial relation processing**  
Convenors: **Ineke van der Ham and Albert Postma**, Utrecht University

## Proceedings

Conference Proceedings will appear as a special issue in **Cognitive Processing – International Quarterly of Cognitive Science**.

## Scientific Committee

**Marta Olivetti Belardinelli** (Sapienza University of Rome) - President, **Demis Basso** (University of Padua), **Rossana De Beni** (University of Padua), **Stefano Federici** (University of Perugia), **Christian Freksa** (University of Bremen), **Emiliano Macaluso** (Santa Lucia Foundation), **Hanspeter Mallot** (University of Tübingen), **Albert Postma** (University of Utrecht), **Marcia Scherer** (Rochester Medical Center), **Thomas Shipley** (Temple University), **Barbara Tversky** (Stanford University), **Cees Van Leeuwen** (Riken Institute), **Joan Vickers** (University of Calgary).

## Supporting Institutions



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Sapienza Università di Roma

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