2. Detailed Conference Program

Conference site: Faculty of Medicine and Psychology, Via dei Marsi 78, 00185 Rome

MONDAY, SEPTEMBER 07

From 9:00 REGISTRATION (Entrance Hall)

11:40-12:00 OPENING CEREMONY (Aula Magna)

12:00-13:20 KEYNOTE LECTURE (Aula Magna):
Kevin O’Regan: Constructing space: A theoretical basis for how naive artificial or biological agents can construct spatial notions

13:20-15:00 INAUGURAL BUFFET

TALK SESSION 1 (Aula III):
**Spatial Frames and Perspectives 1**

15:00-15:20 Cerles & Rousset: Recollecting words while processing space: An interference paradigm

15:20-15:40 Freundlieb et al.: Evidence for spontaneous visuospatial perspective-taking during social interactions

15:40-16:00 Papadopoulou: The Architect’s Perspective on the Tour and Map Perspective

TALK SESSION 2 (Aula IV):
**Navigation 1**

15:00-15:20 Arkin et al.: Using visual information for spatial advice giving in a primate-inspired autonomous robot


TALK SESSION 3 (Aula VII):
**Emotion and Space**

15:00-15:20 Kumoglu & Olguntürk: The effects of correlated colour temperature on wayfinding performance and emotional reactions: A study in a virtual airport environment

15:20-15:40 Liang et al.: Effects of emotional states on temporal order thresholds

15:40-16:00 Luce & Carter: Positive it is this way? The role of mood on global versus local landmark use within virtual environments

16:00-16:20 Sugimoto et al.: The effect of understandability on wayfinding through survey- and route-based expressions

16:00-16:20 Pouliquen-Lardy et al.: Virtual Collaboration: Effect of spatial configuration on spatial statements production

16:00-16:20 Marmolejo-Ramos, Correa et al.: The place of joy, surprise and sadness in vertical space
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Convenors</th>
<th>Abstract</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:20-16:50</td>
<td>TEA BREAK (Aula VIII)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16:50-17:10</td>
<td>SYMPOSIUM 1 (Aula III):</td>
<td>Situated cognition and the philosophy of place</td>
<td>Hünefeldt &amp; Schlitte</td>
<td>Gallagher: Situating interaction in peripersonal and extrapersonal space: Phenomenology, social psychology and neuroscience</td>
</tr>
<tr>
<td></td>
<td>SYMPOSIUM 2 (Aula IV):</td>
<td>Anticipatory object interaction: Perceptual and motor aspects</td>
<td>Belardinelli &amp; Butz</td>
<td>Farnè: Seeing to Feel: Anticipating contact in hand-objects interactions</td>
</tr>
<tr>
<td></td>
<td>TALK SESSION 4 (Aula VII):</td>
<td>Spatial memory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17:10-17:30</td>
<td>Tversky: Thinking in and out of Place</td>
<td></td>
<td></td>
<td>Foerster &amp; Schneider: Anticipatory eye movements in sensorimotor actions: On the role of guiding fixations during learning</td>
</tr>
<tr>
<td>17:30-17:50</td>
<td>Clancey: Projecting Ourselves into Space: The Embodied Experience of Exploring Mars through Robotic Laboratories</td>
<td>Belardinelli &amp; Butz: Action in the eye of the beholder: Goal-oriented gaze strategies</td>
<td></td>
<td>Bochynska &amp; Laeng: Tracking down the path of memory: Eye scanpaths facilitate retrieval of visuospatial information</td>
</tr>
<tr>
<td>17:50-18:10</td>
<td>Seamon: Human-Immersion-in-Place: Phenomenology, Body-Subject, and Environmental Embodiment</td>
<td>Herbort &amp; Butz: Planning grasps for object interaction: The role of motor simulation</td>
<td></td>
<td>Delogu &amp; McMurray: Do we forget where the sounds come from?</td>
</tr>
<tr>
<td>18:10-18:30</td>
<td>Trigg: A sense of (non-)place: A phenomenological analysis</td>
<td>Himmelbach: It takes two: Knowing tools and understanding tools</td>
<td></td>
<td>Engemann et al.: How language impacts memory of motion events in English and French</td>
</tr>
<tr>
<td>18:30-18:50</td>
<td>Malpas: Place and Placedness</td>
<td>Koester &amp; Schack: Grasping interacts with word meaning: Neurophysiological evidence</td>
<td></td>
<td>Holmes et al.: Remembering where: Effects of perspective change and object rotation on spatial memory</td>
</tr>
<tr>
<td>18:30-18:50</td>
<td></td>
<td></td>
<td></td>
<td>Murcia-Lopez et al.: Preliminary findings on the effect of scale transformations on spatial memory in immersive and desktop virtual environments</td>
</tr>
</tbody>
</table>
### TUESDAY, SEPTEMBER 08

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>8:50-9:10</td>
<td>Stefanucci et al.: An Investigation of Mobility and Spatial Anxiety on Spatial Memory in a Virtual Environment</td>
<td>Tversky &amp; Chou: Thinking with Things in Design</td>
<td>Wang et al.: Subjective present: A window of temporal integration.</td>
</tr>
<tr>
<td>9:10-9:30</td>
<td>Creem-Regehr et al.: Effects of Spatial Abilities, Cue-Types, and Scale on Spatial Memory in Virtual Natural Landscapes</td>
<td>Kalay et al.: Simulating agents’ spatial and social cognition by means of a distributed artificial intelligence mechanism</td>
<td>Zhou et al.: Situational context is important: Perceptual grouping modulates temporal perception</td>
</tr>
<tr>
<td>9:30-9:50</td>
<td>Meilinger, Takahashi et al.: Spatial orientation as a social cue – the case of objects and avatars</td>
<td>Portugali &amp; Haken: Information adaptation in urban design</td>
<td>Zaytseva et al.: Episodic memory- A connection between the past and the present.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>10:40-11:00</td>
<td>Weisberg &amp; Newcombe: It's not can but how: Navigation aptitude and strategy</td>
<td>Lenggenhager: The bodily self in shared and social space – A neurological perspective</td>
<td>Catricalà &amp; Guidi: Onomatopoeias and ideophones: A new study about the interface between space, image schemas and phoneme clusters</td>
</tr>
<tr>
<td>11:40-12:00</td>
<td>Marchette et al.: Navigation ability predicts the spatial organization of free recall</td>
<td>Pezzulo: Shared Action Spaces: (How) does the brain merge the co-actors’ spatial representations during social interactions?</td>
<td>Yagi: Spatiality of Shared Intentionality and Language Universals: A Philosophical Reflection</td>
</tr>
</tbody>
</table>
12:00-13:20 POSTER SESSION 1 (Aula III):
Attention and Perception 1
1. Balconi et al.: Environment Impact based on Functional and Aesthetical Features: What is their influence on spatial features and rewarding mechanisms?
2. Bourrelly et al.: Does posture or gravity influence the perception of affordances?
3. Conti et al.: A Cognitive Robotics approach for the study of Unilateral Spatial Neglect
4. Fini et al.: The “Near extrapersonal space” (NES): A subjective space affected by the individual’s physical and personality characteristics
5. Imbir: Duality of emotion approach in case of flanker task performance: An attempt to understand emotion-cognition interactions from new perspective
6. Manca & Fornara: Confirmatory Factor Analysis for Indicators of Perceived Environmental Quality of the Stadium (IPEQS)
7. Morgado et al.: The effect of body posture on power and space perception
8. Pedale et al.: The impact of emotional stimuli in biasing attentional selection during visual search in natural scenes
9. Thomas et al.: Looking up and down: Semantic meaning automatically directs vertical attention
10. Uiga et al.: Mechanisms underlying reinvestment by older adults during walking
11. von Stülpnagel: Configurational salience of landmarks - An analysis of sketch maps using Space Syntax
12. Yang et al.: Spatial orienting around the fovea: Exogenous and endogenous cueing effects

12:00-13:20 POSTER SESSION 2 (Aula IV)
Representation & Memory 1
1. Borgo & Stufano: Understanding architectural types
2. Cavallina et al.: The Effects of Space and Time interactions on The Corsi Block Tapping Test: An investigation of the motor aspects of the task
3. Cerles et al.: An implicit spatial memory alignment effect
4. Dutriaux & Gyselinck: Posture and imagery in the memory of manipulable objects
5. Georges et al.: The link between number-space associations and visuospatial abilities depends on cognitive style
6. Janyan et al.: Remember down, look down, read up: Does a word modulate eye trajectory away from remembered location?
7. Kluss et al.: Representation of Impossible Worlds in the Cognitive Map
8. Li & Zhao: The Choice of Intrinsic Axis under Multi-Cue Conditions
9. Lilla & Delogu: Where was it? Object location memory depends on sensory modality
10. Maier et al.: Cultural spatial biases: Number generation is influenced by reading direction
11. Quinton & Smeding: When abstract concepts get bound together through time and space: a case study on implicit stereotypes
12. Ruotolo et al.: The way people represent spatial information depends on the characteristics of the task: Effects of delay and stimuli manipulability

12:00-13:20 POSTER SESSION 3 (Aula VII)
Movement, Action & Navigation 1
1. Bennett & Giudice: Developing Compensatory Augmentations for Aging and Navigation
2. Cogné et al.: Contextual auditory stimuli are helpful on virtual spatial navigation in patients with visual neglect
3. Corveleyn et al.: Effect of central vision deficit in reach and grasp task
4. Frankeninstein: Imagined and actual movement through the environment and the reference frame orientation in survey knowledge recall
5. Lemieux et al.: Gender Differences When Manipulating Confidence During A First-Person Virtual Maze Learning Task
7. Palmiero et al.: Situated navigational working memory: The role of positive mood
8. Redhead: Conditioned Inhibition within a real and virtual water maze task
9. Sahai et al.: Space influences evocation of structural and functional object-related gestures
10. Seepanomwan et al.: The role of intrinsic motivation in the development of tool use: A study in infant robots
11. Spataro et al.: Do pointing movements facilitate the recall of serial positions in visuospatial working memory?

13:20-15:00 LUNCH BREAK (Aula VII & VIII)

15:00-16:20 KEYNOTE LECTURE (Aula Magna):
Vittorio Gallese: Embodied simulation and the space around us: The perspective of cognitive neuroscience
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:20-16:50</td>
<td>TEA BREAK</td>
<td>(Aula VIII)</td>
<td></td>
</tr>
<tr>
<td>16:50-17:10</td>
<td>SYMPOSIUM 8 (Aula III):</td>
<td>Motor perspectives on social interaction</td>
<td>Convenor: Gianelli</td>
</tr>
<tr>
<td>16:50-17:10</td>
<td>D’Ausilio et al.:</td>
<td>Sensorimotor information flow in interacting partners</td>
<td></td>
</tr>
<tr>
<td>17:10-17:30</td>
<td>SYMPOSIUM 9 (Aula IV):</td>
<td>How do numbers move mentally? The interplay between numerical cognition and multiple dimensions of space</td>
<td>Convenors: Lugli &amp; Winter</td>
</tr>
<tr>
<td>17:10-17:30</td>
<td>Göbel:</td>
<td>Up or down? Reading direction influences counting direction - A cross-cultural comparison</td>
<td></td>
</tr>
<tr>
<td>17:30-17:50</td>
<td>TALK SESSION 6 (Aula VII):</td>
<td>Space concepts</td>
<td></td>
</tr>
<tr>
<td>17:30-17:50</td>
<td>Dal Pian:</td>
<td>Measuring land in agriculture and calculating area in Euclidean Geometry: An encounter of liminal spaces</td>
<td></td>
</tr>
<tr>
<td>17:30-17:50</td>
<td>Sartori et al.:</td>
<td>Complementary Actions: Novel perspectives</td>
<td></td>
</tr>
<tr>
<td>17:30-17:50</td>
<td>Lachmair et al.:</td>
<td>When words meet numbers: Spatially Grounded Associated Response Codes?</td>
<td></td>
</tr>
<tr>
<td>17:30-17:50</td>
<td>Quesque et al.:</td>
<td>Perceiving social intention in motor actions at the second-person perspective</td>
<td></td>
</tr>
<tr>
<td>17:30-17:50</td>
<td>Lugli et al.:</td>
<td>Moving through the space: How arithmetical calculations are involved</td>
<td></td>
</tr>
<tr>
<td>17:50-18:10</td>
<td>Reader &amp; Holmes:</td>
<td>Keeping social interaction social: New kinematic methods and analyses for improving validity</td>
<td></td>
</tr>
<tr>
<td>17:50-18:10</td>
<td>Winter et al.:</td>
<td>Gesture space corresponds to mental number space: Evidence from “tiny” and “low” numbers validity</td>
<td></td>
</tr>
<tr>
<td>18:00-18:30</td>
<td>Letesson et al.:</td>
<td>Eye contact during action observation triggers allocentric action representation</td>
<td></td>
</tr>
<tr>
<td>18:00-18:30</td>
<td>Shaki:</td>
<td>Spatial biases in mental arithmetic without spatial responses? Operational Momentum revisited</td>
<td></td>
</tr>
<tr>
<td>18:30-18:50</td>
<td>Lourenco:</td>
<td>Probing the mental number line: A between-task analysis of spatial numerical associations</td>
<td></td>
</tr>
<tr>
<td>18:30-18:50</td>
<td>Zaman et al.:</td>
<td>Being the Body: A Computational Approach to Human Experience of Space</td>
<td></td>
</tr>
<tr>
<td>18:30-18:50</td>
<td>Zaman &amp; Litman-Cleper:</td>
<td>Space First: A Spatial Inference Model for Multi-sensory Perception</td>
<td></td>
</tr>
</tbody>
</table>
**WEDNESDAY, SEPTEMBER 09**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>8:30-8:50</strong></td>
<td><strong>8:50-9:10</strong></td>
<td><strong>8:30-8:50</strong></td>
</tr>
<tr>
<td>Akyürek: Temporal integration in the context of computational models of the attentional blink</td>
<td>Bowman: Attention Increases the Acuity of Conscious Perception: All-or-none Percepts, Temporal Variance and the Simultaneous Type/Serial Token Model</td>
<td>Ackermann: Displaced, Detached, Disembodied: Perpetually connected yet [mostly] out of touch</td>
</tr>
<tr>
<td><strong>9:10-9:30</strong></td>
<td><strong>9:30-9:50</strong></td>
<td><strong>9:30-9:50</strong></td>
</tr>
<tr>
<td>Raffone: Modelling consolidation and selection for encoding in visual working memory</td>
<td>Raffone: Modelling consolidation and selection for encoding in visual working memory</td>
<td>Gün: (e)Scapes (for) Bridging Visual-Making and Computing</td>
</tr>
<tr>
<td><strong>9:30-9:50</strong></td>
<td><strong>9:50-10:10</strong></td>
<td><strong>9:50-10:10</strong></td>
</tr>
<tr>
<td><strong>9:50-10:10</strong></td>
<td><strong>10:10-10:40</strong></td>
<td><strong>10:10-10:40</strong></td>
</tr>
<tr>
<td>Gigliotta &amp; Paloma Gonzalez Rojas: Motion Metrics and Mental Maps</td>
<td>Simione &amp; Nolfi: Selection-for-action emerges in neural networks trained to learn spatial associations between stimuli and actions</td>
<td>Ntzani: Enchanting spaces of time-past; Investigating the effects of reading metaphors on public engagement with archaeological remains</td>
</tr>
<tr>
<td><strong>10:10-10:40</strong></td>
<td><strong>10:40-11:00</strong></td>
<td><strong>10:40-11:00</strong></td>
</tr>
<tr>
<td>COFFEE BREAK (Aula VIII)</td>
<td>Blomberg &amp; Zlatev: Non-actual motion: Phenomenological analysis and linguistic evidence</td>
<td>Grade, D’Ursel et al.: The influence of body posture and action observation priming on reachability judgment and distance estimation</td>
</tr>
<tr>
<td><strong>10:40-11:00</strong></td>
<td><strong>11:00-11:20</strong></td>
<td><strong>11:00-11:20</strong></td>
</tr>
<tr>
<td>Stosic et al.: Does the road go up the mountain? Fictive motion between linguistic conventions and cognitive motivations</td>
<td>Ruggiero, Senese et al.: I feel like you when you come close to me: Motor simulation and inter-bodies distances reasoning</td>
<td>Avraamides et al.: Sensorimotor interference in reasoning from imagined perspectives</td>
</tr>
<tr>
<td><strong>11:00-11:20</strong></td>
<td><strong>11:20-11:40</strong></td>
<td><strong>11:20-11:40</strong></td>
</tr>
<tr>
<td>Paajanen &amp; Itkonen: Eliciting different perspectives upon fictive motion: Evidence from Finnish</td>
<td>Thair &amp; Newport: The effects of spatial discrepancy on per-personal space in virtual environments</td>
<td>Cooperrider et al.: Spatial frames of reference in gesture: Evidence from bilingual Mexico</td>
</tr>
<tr>
<td><strong>11:20-11:40</strong></td>
<td><strong>11:40-12:00</strong></td>
<td><strong>11:40-12:00</strong></td>
</tr>
<tr>
<td><strong>11:40-12:00</strong></td>
<td><strong>11:40-12:00</strong></td>
<td><strong>11:40-12:00</strong></td>
</tr>
<tr>
<td><strong>11:40-12:00</strong></td>
<td><strong>11:40-12:00</strong></td>
<td><strong>11:40-12:00</strong></td>
</tr>
<tr>
<td><strong>11:40-12:00</strong></td>
<td><strong>11:40-12:00</strong></td>
<td><strong>11:40-12:00</strong></td>
</tr>
<tr>
<td><strong>11:40-12:00</strong></td>
<td><strong>11:40-12:00</strong></td>
<td><strong>11:40-12:00</strong></td>
</tr>
</tbody>
</table>
12:00-13:20 KEYNOTE LECTURE (Aula Magna):
Yan Bao: *Spatial attention is eccentricity dependent: Where something is, matters!*

13:20-15:00 LUNCH BREAK (Aula VII & VIII)

15:00-16:20 KEYNOTE LECTURE (Aula Magna):
Susan Goldin-Meadow: *How our hands help us spatialize*

16:20-16:50 TEA BREAK (Aula VIII)

**SYMPOSIUM 14 (Aula III):**
*Spatial Language and Spatial Cognition*
Convenor: Gentner

16:50-17:10 Gentner et al.: *Spatial Language and Spatial Comparison Combine to Support Children’s Learning*

17:10-17:30 Majid et al.: *Spatial Relations in Closely Related Languages*

17:30-17:50 Levine et al.: *Variations in Parents’ Spatial Language Predict Children’s Spatial Skill*

**ECONA MEETING (Aula IV, 17:00):**

**FILM (Aula VII, 17:00):**
*Personality in mental space,* by Gerrit A. C. Derks

17:50-20:30 SYMPOSIUM 14 (Aula III): (Continued)

20:30 SOCIAL DINNER (Ristorante “Consolini”, Via Marmorata 28)
THURSDAY, SEPTEMBER 10

**SYMPOSIUM 15 (Aula III):**  
Architectural psychology and inhabited spaces: A multidisciplinary approach to improve quality of life  
Convenor: Pazzaglia

8:30-8:50  
Pazzaglia: New challenges for architectural psychology

8:50-9:10  
Bonaiuto & Formara: Urban environment and well-being

9:10-9:30  
Siviero: Footbridges as elements for Urban Rehabilitation and Renewal

9:30-9:50  
Culatti: Bridges in the landscape: Qualitative aspects

9:50-10:10  
O'Malley et al.: Reducing spatial disorientation for older adults with memory difficulties: Towards dementia-friendly architecture

10:10-10:40  
COFFEE BREAK (Aula VIII)

**SYMPOSIUM 18 (Aula III):**  
Situated cognition in the arts  
Convenors: Reboul & Guelton

10:40-11:00  
Reboul: Decoupling, situated cognition and immersion in art

11:00-11:20  
Trentini: Immersion as an embodied cognition shift: Aesthetic experience and spatial situated cognition

11:20-11:40  
Ganczarek et al.: Intersection of Reality and Fiction in Art Perception

11:40-12:00  
Guelton: « Hupareel »: experiences & immersions in an Hybrid Reality Game between Paris – Shanghai – Montreal

**SYMPOSIUM 16 (Aula IV):**  
The Quiet Eye As an Objective Measure of Situated and/or Spatial Cognition  
Convenor: Vickers

8:30-8:50  
Causer et al.: Developing spatial cognition through the identification and training of visual attention in surgical skills

8:50-9:10  
Klostermann et al.: The Quiet Eye and Information Processing: Facilitation of Stimulus Identification and Response Selection

9:10-9:30  
Wilson et al.: "Use your illusion II": Influencing spatial cognition and action.

9:30-9:50  
Gonzales et al.: Quiet eye duration in expert and novice archers: A task complexity dichotomy

9:50-10:10  
Vine et al.: Blink and you might miss it: Blinks may reflect an inward shift of attention, during the performance of a skill

10:10-10:40  
**SYMPOSIUM 19 (Aula IV):**  
Eye movement-related brain activity in visuospatial information processing  
Convenors: Nikolaev & van Leeuwen

10:40-11:00  
Pannasch: Eye movement-related brain activity in free visual exploration

11:00-11:20  
Nakatani et al.: Perceivers' internal state tags fixation-by-fixation visual information: An EEG-eye movement co-registration study

11:20-11:40  
Ossandon et al.: Predictions of visual content across eye movements and their modulation by inferred information

11:40-12:00  
Nikolaev & van Leeuwen: Encoding of visuospatial information in free viewing

**SYMPOSIUM 17 (Aula VII):**  
Multimodal perspectives on spatial cognition  
Convenor: Forbus

8:30-8:50  
Cohn: Learning about space, time and activities from a robot perspective

8:50-9:10  
Freksa: Computational problem solving in spatial substrates

9:10-9:30  
Pustejovsky: Affordances and the functional characterization of space

9:30-9:50  
Forbus: Sketching our way to spatial learning

10:10-10:40  
**TALK SESSION 9 (Aula VII):**  
Navigation 2

10:40-11:00  
Burgmanis et al.: The influence of travel behavior on cognition of urban environment

11:00-11:20  
Claessen et al.: The effect of instruction on the spatial and temporal aspects of route knowledge

11:20-11:40  
Nardi et al.: More on the Ability to Use Slope for Navigation: Evidence From Children

11:40-12:00  
Smith et al.: Developmental trajectories of path integration: The influence of concurrent task
12:00-13:20 **KEYNOTE LECTURE** (Aula Magna):
Shaun Gallagher: *Intersubjective relations in lived space and instituted space*

13:20-15:00 **LUNCH BREAK** (Aula VII & VIII)

15:00-16:20 **KEYNOTE LECTURE** (Aula Magna):
Sergei Gepshtein: *Solid field of sensitivity: Perceptual structure of immersive space*

16:20-16:50 **TEA BREAK** (Aula VIII)

**SYMPOSIUM 20** (Aula III):
*Situated spatial cognition and social processing: body, emotions and interactions in space*
Convenor: Iachini

**SYMPOSIUM 21** (Aula IV):
*Should We Stay Or Should We Go? Evidence from Lab and Field Studies of Convergent Strategies in Spatial Decision-Making by Nonhuman Primates*
Convenors: Dolins & Garber

**TALK SESSION 10** (Aula VII):
*Attention and Perception*

16:50-17:10 Saulton et al.: The interaction of social and spatial cognitive processes in naturalistic social interactions

17:10-17:30 Tajadura-Jimenez: The Hearing Body: Influences of audition on body and space representations

17:30-17:50 Coello et al.: The motor encoding of peripersonal space and its role in social interactions

17:50-18:10 Lloyd & Koutsopoulou: Situational awareness and interpersonal spatial processing in martial artists

18:10-18:30 Balconi & Crivelli: The "emotional" and "interpersonal" body in spatial cognition


18:50-19:10 Iachini, Pagliaro et al.: I do not have a good impression: Moral information and spatial behavior in virtual interactions

Holloway & Smith: Probability cueing in virtual environmental search

Howard et al.: Spatial and Temporal Nodes in the Paths of Bearded Capuchin Monkeys (Sapajus libidinosus) and the Effects of Landscape

Nicholls & Lew: Numerical spatial cognition and time: The association may be a product of response bias

Quetard et al.: Detecting a pedestrian in the fog: The role of target expectation and visual exploration in perceptual decision making under uncertainty

De Lillo & Kirby: Monitoring of spatio-temporal patterns of resource availability by humans in a virtual reality foraging task

Dolins et al.: Chimpanzee goal-directed foraging and navigation in a virtual environment: spatial knowledge, distance, or sight of goal as prioritizing factor?

Kirby & De Lillo: Visual cues, predictive of food location, do not override the acquisition of spatial information in humans in a virtual reality foraging task
**FRIDAY, SEPTEMBER 11**

**SYMPHOSIUM 22** (Aula III):
*Numbers in the eye of the beholder: What eye movements reveal about numerical cognition*
Convenors: Hartmann & Fischer

8:30-8:50
Van’t Noordende, van Hoogmoed et al.: Using eye tracking to measure number line estimation strategies in children with mathematical difficulties

8:50-9:10
Reinert et al.: Strategies in unbounded number line estimation? - Evidence from eye-tracking

9:10-9:30
Burr et al.: Serial dependencies cause logarithmic-like compression of the numberline

9:30-9:50
Hartmann & Fischer: Spatial biases during mental arithmetic – Evidence from eye tracking

9:50-10:10
Myachykov & Chapman: The interplay between remembered affordances and the perceived numbers: An eye-tracking study

**COFFEE BREAK** (Aula VIII)

10:10-10:40

**SYMPHOSIUM 24** (Aula III):
*Number-space association: Insights from developmental, clinical and neuropsychological perspectives*
Convenors: Arend & Ashkenazi

10:40-11:00
Van’t Noordende, Kroesbergen et al.: The relation between early match skill, memory and non-symbolic number-space mapping

11:00-11:20
Ashkenazi: Domain-specific and domain-general effects on arithmetic: Evidences from typical and atypical development

11:20-11:40
Rinaldi: Situating numbers on an experienced space

11:40-12:00
Arend: Number-space association in synaesthesia: An fmri investigation

**TALK SESSION 11** (Aula VII):
*Body and Space 2*

8:30-8:50
Van’t Noordende, van Hoogmoed et al.: Using eye tracking to measure number line estimation strategies in children with mathematical difficulties

8:50-9:10
Reinert et al.: Strategies in unbounded number line estimation? - Evidence from eye-tracking

9:10-9:30
Burr et al.: Serial dependencies cause logarithmic-like compression of the numberline

9:30-9:50
Hartmann & Fischer: Spatial biases during mental arithmetic – Evidence from eye tracking

9:50-10:10
Myachykov & Chapman: The interplay between remembered affordances and the perceived numbers: An eye-tracking study

**TALK SESSION 12** (Aula IV):
*Affordances*

10:40-11:00
Van’t Noordende, Kroesbergen et al.: The relation between early match skill, memory and non-symbolic number-space mapping

11:00-11:20
Ashkenazi: Domain-specific and domain-general effects on arithmetic: Evidences from typical and atypical development

11:20-11:40
Rinaldi: Situating numbers on an experienced space

11:40-12:00
Arend: Number-space association in synaesthesia: An fmri investigation

**TALK SESSION 13** (Aula VII):
*Spatial skills and techniques*

10:40-11:00
Van’t Noordende, Kroesbergen et al.: The relation between early match skill, memory and non-symbolic number-space mapping

11:00-11:20
Ashkenazi: Domain-specific and domain-general effects on arithmetic: Evidences from typical and atypical development

11:20-11:40
Rinaldi: Situating numbers on an experienced space

11:40-12:00
Arend: Number-space association in synaesthesia: An fmri investigation

**SYMPHOSIUM 23** (Aula IV):
*Embodied space in architecture and neuroscience: measures and mechanisms*
Convenors: Serino & Pasqualini

10:40-11:00
Van’t Noordende, Kroesbergen et al.: The relation between early match skill, memory and non-symbolic number-space mapping

11:00-11:20
Ashkenazi: Domain-specific and domain-general effects on arithmetic: Evidences from typical and atypical development

11:20-11:40
Rinaldi: Situating numbers on an experienced space

11:40-12:00
Arend: Number-space association in synaesthesia: An fmri investigation

**TALK SESSION 14** (Aula IV):
*Affordances*

10:40-11:00
Van’t Noordende, Kroesbergen et al.: The relation between early match skill, memory and non-symbolic number-space mapping

11:00-11:20
Ashkenazi: Domain-specific and domain-general effects on arithmetic: Evidences from typical and atypical development

11:20-11:40
Rinaldi: Situating numbers on an experienced space

11:40-12:00
Arend: Number-space association in synaesthesia: An fmri investigation

**TALK SESSION 15** (Aula VII):
*Spatial skills and techniques*

10:40-11:00
Van’t Noordende, Kroesbergen et al.: The relation between early match skill, memory and non-symbolic number-space mapping

11:00-11:20
Ashkenazi: Domain-specific and domain-general effects on arithmetic: Evidences from typical and atypical development

11:20-11:40
Rinaldi: Situating numbers on an experienced space

11:40-12:00
Arend: Number-space association in synaesthesia: An fmri investigation
POSTER SESSION 4 (Aula III): Attention and Perception 2
1. Bourrelly et al.: Perception of affordances during long-term exposure to weightlessness in the International Space Station
2. Churches et al.: Perceptual biases in the horizontal and vertical dimensions are driven by separate cognitive mechanisms
3. Di Luca & Schiltz: Contextual vs. numeric visuo-spatial reorientation during cancellation tasks
4. Iachini, Ruggiero et al.: The influence of anxiety and personality factors on comfort and reachability space: A correlational study
5. Le Bigot & Postollec: Effect of nearby hand on visual processing in a 3D virtual environment
6. Marichal et al.: Embodiment of peripersonal space perception: Does the level of phobia influence reachability judgments?
7. Nagy: Differences between right and left brain-damaged patients in perception of body position
8. Nikitatis et al.: Sustained Attention in Smart Transformable Environments

POSTER SESSION 5 (Aula IV): Representation & Memory 2
1. Fiori et al.: The right TPJ plays an active role in maintaining an internal representation of verticality: An interferencesential theta burst stimulation study
2. Gerard et al.: Architecture and Spatial Cognition to Enhance Learning
3. Kasek: Visual expertise in immediate spatial localisation tasks
4. Kojima: Prior knowledge of character locational stereotypes and representations during text comprehension
5. Li et al.: Memory and visual search in immersive environments
6. Marmolejo-Ramos, Montoro et al.: The mapping of emotion words onto space: A cross-modal study
7. Palleschi et al.: The ability of visuospatial orientation: Similarities and differences
8. Ruggiero, Ruotolo et al.: Switching frames of reference: Congenital blindness limits the allocentric to egocentric translation
9. Sík & Svatonová: Long-term memory for aerial photographs and maps

1. Bortolotti et al.: Case study in rehabilitation with SAM method (Sense and Mind): A proposal and analysis
2. Cortesi et al.: Execution, observation and mental simulation of Upper Limb Gesture for transitive and intransitive action: A fNIRS study
3. Dudschig & Kaup: To fly or not to fly? The automatic influence of negation on language-space associations
4. Kirby & De Lillo: Chunking by food type and spatial constraints in a virtual reality search task
5. Lopez et al.: Coupled filtering in visual and motor spaces for reaching and grasping
7. Quinton & Lengagne: Abstract planning over control primitives for robotic manipulation
8. Redhead & Allison: Effects of Gender Stereotypic threat on a spatial orientation task in a real and virtual environment
9. Sameer & Bhushan: Route Memory in an Unfamiliar Homogenous Environment
10. Sosson et al.: Does body motion influence arithmetic problem solving?
11. Spinelli et al.: Is Error monitoring a graded or an all-or-none process? An EEG study in Immersive Virtual Reality

LUNCH BREAK (Aula VII & VIII)


TEA BREAK (Aula VIII)
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Convenors: Borghi &amp; Tummolini</td>
<td>Convenor: Riemer</td>
<td>Convenors: Richardson &amp; Orgs</td>
</tr>
<tr>
<td>16:50-17:10 Diessel: Linguistic relativity or semantic universals of space? A fresh look at spatial frames of reference</td>
<td>van der Ham: Human navigation in real and virtual environments: the role of locomotion</td>
<td>Richardson: Behavioural Coordination</td>
</tr>
<tr>
<td>17:10-17:30 Coventry: Spatial demonstratives and perceptual space</td>
<td>Riemer &amp; Wolbers: First person perspective: A methodological constraint for path integration studies?</td>
<td>von Zimmermann: Collective Speech and Coordinated Action</td>
</tr>
<tr>
<td>17:30-17:50 Borghi: Perspective and bodily space in language comprehension</td>
<td>Trojan: Body and space: Theoretical concepts and controversies</td>
<td>Cohen &amp; Tarr: Synchrony, Exercise and Social Bonding</td>
</tr>
<tr>
<td>17:50-18:10 Knoeferle: Actions and spatially informative cues in spoken language comprehension: Evidence from eye tracking</td>
<td>Torta &amp; Trojan: Prismatic lenses and pain</td>
<td>Stevens &amp; Leach: Distributed Cognition and Creativity: Effects of Collaboration and Familiarity on Improvising Contemporary Dance</td>
</tr>
<tr>
<td>18:10-18:30 Volterra et al: Spatial agreement in Italian sign language</td>
<td>Fuchs: Spatial perception of artificial hands and phantom limbs</td>
<td>Vicary &amp; Orgs: Aesthetic perception of movement synchrony in dance</td>
</tr>
<tr>
<td>18:30-18:50 Cangelosi: Embodied Language Learning in Humanoid Robots</td>
<td>Maselli: Self-location and its relation to body ownership in full body illusions</td>
<td></td>
</tr>
</tbody>
</table>