



SPATIAL COGNITION IN A MULTIMEDIA AND INTERCULTURAL WORLD
ICSC 2018 – 7th International Conference on Spatial Cognition – Rome, 10-14 Sept. 2018

Detailed Program

(as of August 28, 2018)

Monday, September 10

from 9:00

REGISTRATION

12:30 - 14:00

INAUGURAL BUFFET

14:00 - 14:30

**Aula Magna
OPENING CEREMONY**

14:30 - 15:30

Aula Magna
KEYNOTE LECTURE 1:
Marisa Carrasco: *How visual spatial attention alters perception*
Chair: *Raffone*

15:40 - 17:00

Aula III
SYMPOSIUM 11
New issues in attentional control
Convenors: *Lasaponara, Casagrande & Doricchi*

Aula VII
TALK SESSION 1
Architectural space
Chair: *Hoelscher*

Aula VIII
TALK SESSION 8
Mental representation of time
Chair: *Postma*

15:40 - 16:00

Chelazzi:
Plasticity of spatial priority maps

Esposito et al.:
A multi-agent spatial-cognition model to represent
infection spread in hospitals

Sun & Zhang:
How do Chinese speakers conceptualize time?
Beyond the horizontal and vertical dimensions

16:00 - 16:20

Slagter & van Moorselaar:
Facilitation and inhibition in the attentive brain

Stufano Melone et al.:
Towards an ontology-based framework to store
and recover memories for creative architectural
projects

Postma & Kant:
Time for space: Studies of spatial and temporal
order memory

16:20 - 16:40

Silvetti:
Meta-Learning foundations of (near) optimal
cognitive control in the mammalian brain

Kondyli & Bhatt:
Decision points in architectural space: How they
affect users' visuo-locomotive experience during
wayfinding

Pitt & Casasanto:
Spatializing time and numbers: How culture
shapes cognitive universals

16:40 - 17:00

Chica et al.:
Central and peripheral markers of attention and
consciousness interactions

Berkowitz et al.:
Development of a novel test to measure spatial
abilities of architecture students: Preliminary
findings

Gijssels et al.:
Modality matters: Space-time mappings differ
in vision and audition

17:00 - 17:30

TEA BREAK

17:30 - 18:30

Aula Magna
KEYNOTE LECTURE 2:
Michael Corballis: *Space, time and language*
Chair: *Antonucci*

Tuesday, September 11

8:30 - 10:10

Aula III

SYMPOSIUM 16

Individual differences in spatial components of search and foraging

Convenors: *Smith & De Lillo*

8:30 - 8:50

De Lillo:

Foraging as a test battery for identifying sources of individual variations in long-term memory, short-term memory and planning

8:50 - 9:10

Smith et al.:

Inducing difference in search behaviour: Right parietal stimulation modulates efficiency but not learning

9:10 - 9:30

Gilchrist et al.:

The development of executive control in large-scale search

9:30 - 9:50

Grzeschik et al.:

Effects of cognitive ageing on finding and selecting reliable landmarks

9:50 - 10:10

Trapanese et al.:

Planning of foraging strategies in nonhuman primates: travel optimization in three semi-free ranging species of primates

10:10 - 10:40

Aula VII

SYMPOSIUM 6

The roles of multimodality in spatializing reasoning and learning

Convenors: *Forbus, Gentner, Levine & Cohn*

Gentner et al.:

Spatial analogies in complex relational reasoning: Evidence from spontaneous gestures

Goldin-Meadow et al.:

Gesture helps learners learn, but not merely by guiding their visual attention

Levine et al.:

Mental transformation skill in young children: The role of concrete and abstract motor training

Alomari et al.:

Natural language learning and grounding for robotic systems

Forbus:

Connecting language to space via sketching

COFFEE BREAK

Aula VIII

TALK SESSION 10

New media integration

Chair: *O'Halloran*

Barhorst-Cates et al.:

Individual differences in navigation style: Effects of home environment structure

Pouya & Moussavi:

Practice effect in spatial updating: A longitudinal study using virtual reality navigation

Nitsche:

Interface - A region of reversibility: Phenomenological-topological approach to new media

Zhao et al.:

Walking and learning in a large-scale mediated space: Impacts of viewpoint transition and proprioceptive feedback on spatial learning in virtual reality

Delogu et al.:

Promoting creativity, problem solving and cultural sensitivity through original and multidisciplinary course-based research experiences on technology and multimedia

10:40 - 12:40

Aula III
SYMPOSIUM 16
(continued)

10:40 - 11:00

Foulsham:
Eye movements in active search: From scenes to strategy

11:00 - 11:20

Miglietta et al:
Intentionality of spatial foraging strategies in wild western gorillas

11:20 - 11:40

Discussion

11:40 - 12:00

BOOK PRESENTATION:
Michel Denis: *Space and spatial cognition. A multidisciplinary perspective.* Routledge 2018

12:00 - 12:20

(continued)

12:20 - 12:40

(continued)

12:40 - 14:30

Aula VII
TALK SESSION 2
Attention and perception
Chair: *Lucero*

Simon & Luck:
Perceived immersion and preferences between binaural and stereo mixes of music

Molto et al.:
Action-specific effects on distance perception: A multilevel Bayesian meta-analysis

van Leeuwen:
Piecemeal and holistic perception as alternating processing modes

Kostov:
The handle orientation effect: Bottom-up attentional factors that have received little to no attention

Mirolla & Pagliarini:
Diana and Actæon. An eye tracking study on old mythology

Cervera Torres et al.:
Investigating recognition of emotional pictures with touchscreen interactions: A match between picture valence and its vertical touch location raises recognition confidence

LUNCH BREAK

14:30 - 15:30

Aula Magna
KEYNOTE LECTURE 3:
Ernst Pöppel: *East of West, West of East: A matter of global and local identity*
Chair: *Casagrande*

Aula VIII
TALK SESSION 11
Orientation and wayfinding
Chair: *Gyselinck*

Pasala et al.:
Geometric features that describe reference frames in forming intuitive landmarks during spatial navigation

Grison & Gyselinck:
Route planning on a map: Challenging the existence and interpretation of a southern preference

Meredith & Bruce:
Geo-spatial literacy: An underrated capability in our technology driven world?

Guelton:
New entanglements between instrumental and mental maps in the exploration of urban space: Preliminary results

Durupt et al.:
Walking urban landscape, an eye-tracking study of visual affordances and orientation strategies

Jazuk et al.:
Social density and building layout: The experience of crowding in wayfinding

15:40 - 17:00

Aula III
POSTER SESSION 1
Attention, perception, emotion

1 - *Ehret et al.:*
Seeing or hearing? – The influence of music and spatial surrounding on perceived atmosphere

2 - *Manser-Smith et al.:*
Tactile mislocalisations on the fingers and toes

3 - *Gussmann et al.:*
Authentic places: Does knowing about the history of a place influence the emotional impact of associated pictures?

4 - *Keil et al.:*
Ambiguity of landmark pictograms enhances salience and recognition performance

5 - *Aniulis & Thomas:*
Modulation of attentional asymmetries by thin and plus-size models

6 - *Forte et al.:*
Visual spatial attention in elderly: Analysis of the orienting effect

7 - *Ivanov & Janyan:*
Endogenous attentional shift modulates inhibition of return: Look down, detect faster

8 - *Liu et al.:*
Oculocentric reference frame of inhibition of return in the far peripheral visual field

9 - *Boncompagni et al.:*
Attentional bias toward threatening stimuli in anxious Italian individuals: Evidence from emotional spatial cueing using three types of emotional stimuli

Aula VII
POSTER SESSION 2
Language, representation, imagery

1 - *Stoltmann & Fuchs:*
Perceivers change their perspective when an agent is introduced in a static situational context

2 - *Méndez et al.:*
When does the trainability of mental rotation emerge in preschool education?

3 - *Bar-Hen-Schweiger & Henik:*
Mental manipulation and goal-directed behavior

4 - *Gigliotti et al.:*
Perceiving and acting in a common and shared space: A systematic exploration of the social dimension of peripersonal space

5 - *Iachini et al.:*
The experience virtual reality: Are individual differences in mental imagery associated with sense of presence?

6 - *Tsaregorodtseva & Tsigeman:*
Men in black and green: Testing a link between perceptual and conceptual knowledge

7 - *Serino et al.:*
Trust, personality factors, attachment styles, and modulation of the interpersonal space: A correlational study

Aula VIII
POSTER SESSION 3
Embodiment, motion, navigation

1 - *Lemieux et al.:*
Effects of stereotype activation on gender differences in performance and metacognition during a first-person virtual maze learning task

2 - *Tixier et al.:*
Can postural control interfere with episodic memory?

3 - *Haase et al.:*
Immersive 3D haptics for navigating virtual space

4 - *Valkova & Janyan:*
Is good always right? The level of on-line stability of space-valence body-specific associations

5 - *Guenther et al.:*
Comparison of learning with vibro-audio maps vs. traditional tactile maps

6 - *Baxter et al.:*
Using immersive virtual environments to explore the blocking of geometric information during spatial learning

7 - *Kimura et al.:*
Navigation strategy with a virtual-reality hallway environment

8 - *Morgado et al.:*
On the plausible nature of the effect of Ebbinghaus illusion on throwing performance

9 - *Bhatia et al.:*
Whose pointing is beneficial for visuo-spatial working memory: Mine, yours or an animated hand's?

17:00 - 17:30

TEA BREAK

17:30 - 18:30

Aula Magna
KEYNOTE LECTURE 4:
Pierre Dasen: *Cross-cultural research on spatial concept development*
Chair: *Hünefeldt*

Wednesday, September 12

8:30 - 10:10

Aula III
SYMPOSIUM 8
How do we make sense of space through its artistic representation? Space and embodiment in visual art
Convenors: *Ganczarek & Ruta*

Aula VII
SYMPOSIUM 14
Beyond the video: Naturalistic approaches to examining social motor behaviour
Convenor: *Reader*

Aula VIII
TALK SESSION 7
Language and culture
Chair: *Ozyurek*

8:30 - 8:50

Fingerhut:
Manipulating complexity in pictorial space through artistic means

D'Ausilio:
Multi-level sensorimotor coordination in orchestra playing: A kinematic study

Itkonen & Pajunen:
Justifying the elicitation vs. corpus distinction in psycholinguistics

8:50 - 9:10

Ganczarek & Pietras:
Out of order: Syntactic inconsistencies in pictorial space

Georgescu & Hamilton:
The use of virtual reality to study the social consequences of behavioral mimicry

Catricalà:
Fashion code, spatial grammar and direction: English and Italian languages in comparison

9:10 - 9:30

Ruta et al.:
Medieval representation of pictorial space? A study investigating an alternative hypothesis from art history.

Marsh:
Using motion tracking and affordance experiments to examine the emergence of interpersonal synchrony and joint action

Cerqueglini:
Cross-generational changes in linguistic and cognitive spatial frames of reference among Negev Arabic speakers

9:30 - 9:50

Pepperell et al.:
Natural imaging media

Quesque:
When the body thinks social: Sensorimotor constraints modulate perspective-taking abilities

Thomas et al.:
Does ethnicity influence interpersonal distance?

9:50 - 10:10

Troendle:
The effects of space and movement on visitor attention

Tieri & Era:
Investigating social motor behaviors through virtual reality: From human's to avatar's kinematics

Kumari & Basu:
Role of script in tribal group of Odisha

10:10 - 10:40

COFFEE BREAK

10:40 - 12:40

**Aula III
SYMPOSIUM 15**

From fieldwork to modelling: Explaining the variability of linguistic spatial referencing systems

Convenors: *Rocca, Nölle & Spranger*

**Aula VII
APPLICATION
DEMONSTRATIONS**

**Aula VIII
TALK SESSION 3**

Body and motion
Chair: *Casasanto*

10:40 - 11:00

Nölle & Spranger:
Combining models and experiments to study the evolution of competing spatial referencing strategies

(continued)

Iosa et al.:
Golden gait: A spatio-temporal bridge from biomechanical to cultural constraints

11:00 - 11:20

Bohnenmeyer et al.:
The biological and cultural evolution of spatial cognition: Evidence from semantic typology

(continued)

Miklashevsky et al.:
Think of the future in the right way: Processing time activates the motor system

11:20 - 11:40

Palmer et al.:
Variation in spatial reference between and within languages: Sociotopography and the interplay of language, culture and environment

(continued)

Kikuno:
The effect of tracking training on visual attention

11:40 - 12:00

Ragni & Friemann:
Cognitive computational models of reasoning about spatial information

(continued)

Ruiz Fernandez et al.:
Moving non-affective pictures in the horizontal space on a touchscreen: Valence ratings depend on movement direction

12:00 - 12:20

Peeters:
The power of pointing in linking language to the world

(continued)

Yap et al.:
Beat gestures encode spatial semantics

12:20 - 12:40

Tenbrink:
Linguistic spatial reference systems across everyday domains: How people talk about space in sailing, dancing, and horse riding

(continued)

Delogu et al.:
The Morra game as testbed for automatic and controlled cognitive processing in an ecological setting

12:40 - 14:30

LUNCH BREAK

14:30 - 15:30

**Aula Magna
KEYNOTE LECTURE 5:**

Christoph Hoelscher: *Spatial cognition and architecture – From evidence to design*

Chair: *Delogu*

15:40 - 17:00

Aula III
SYMPOSIUM 5
Spatial cognition in engineering problem solving
Convenors: *Duffy & Sorby*

Aula VII
TALK SESSION 12
Situated space representation
Chair: *Delogu*

Aula VIII
TALK SESSION 14
Visual memory
Chair: *De Lillo*

15:40 - 16:00

Bowe & Harding:
Examination of the gender differences in spatial visualisation skills and their impact on success and engagement in STEM education

Li et al.:
User judgments of perceived and traversed distances in a real shopping mall and a corresponding virtual model

Oesterlen & Seitz-Stein:
Visuospatial response formats in tablet-based verbal working memory tasks: Insights from developmental psychology

16:00 - 16:20

Duffy:
Problem representation characteristics of engineering students with low and high spatial ability and implications for engineering education

Lopez et al.:
Categorical and coordinate spatial information: Can they be disentangled in country sketch maps?

Li, Q.:
Selective filtering of task-irrelevant information in visual working memory

16:20 - 16:40

Delahunty et al.:
Investigating the relationship between spatial ability and electrical circuits problem solving in an engineering degree program

Helmlinger:
An ethnomusicological case study: Steelpans topologies

Pailian & Alvarez:
Limits in visual working memory manipulation

16:40 - 17:00

Loney & Sorby:
Understanding the link between spatial skills and chemical engineering problem-solving

Zarina et al.:
Impact of object shape on the interpretation of spatial relations

Goetschalckx et al.:
Good images are remembered better

17:00 - 17:30

TEA BREAK

17:30 - 18:30

Aula Magna
KEYNOTE LECTURE 6:
Robert K. Logan: *Visual and acoustic space in the digital age*
Chair: *Olivetti*

Thursday, September 13

8:30 - 10:10

Aula III SYMPOSIUM 1

Minds, movement, moving image (Part 1): On spatial cognition and the built environment

Convenor: *Bhatt*

8:30 - 8:50

Bhatt:

Embodied architecture design: On people-centered design of visuo-locomotive cognitive experiences

8:50 - 9:10

Kondyli:

Precedent-based parametric design: Computationally generated spatial morphologies satisfying behavioral-based design constraints

9:10 - 9:30

Portugali:

On the relations between cognitive maps and images of cities

9:30 - 9:50

Tversky:

Cross-cultural differences in visualizations

9:50 - 10:10

Discussion

10:10 - 10:40

Aula VII SYMPOSIUM 4

Spatial and non-spatial representation of number magnitudes

Convenors: *Doricchi & Fias*

Fias et al.:

The temporary nature of number-space associations

Sella & Kadosh:

The link between visuospatial abilities and mathematical abilities

Doricchi:

Left-to-right coding of number magnitudes: Inherent or not?

Gevers & Antoine:

Representations of space with ordinal information

Cicchini et al.:

Spontaneous perception of numerosity in children and adults

COFFEE BREAK

Aula VIII SYMPOSIUM 12

Spatial representations: Individual differences in aging

Convenors: *Muffato, Meneghetti & Wiener*

Ruggiero et al.:

Development of reference frames and categorical/coordinate spatial relations from childhood to elderly age

Muffato et al.:

Age-related differences in the ability to recognize swapped positions of objects

Hilton et al.:

Aging and route learning: What is the role of sequence knowledge?

Gyselinck et al.:

Assisting navigation in older pedestrians: What suits better?

Piccardi:

Age-effect on topographical memory

10:40 - 12:40

Aula III
SYMPOSIUM 2

Minds, movement, moving image (Part 2): On visuo-auditory perception and the moving image

Convenor: *Bhatt*

Aula VII
TALK SESSION 5

Disability, rehabilitation and assistance

Chair: *van der Ham*

Aula VIII
TALK SESSION 13

Virtual reality

Chair: *Iachini*

10:40 - 11:00

Bhatt:

Cognitive media studies: Potentials for spatial cognition and AI research

Beenhakker & Derks:

Testing depression in awareness space. A proposal to evaluate whether a psychotherapeutic method based on spatial cognition and imagination therapy reduces moderate depression

Li, J. et al.:

The Effect of different scene information types on path integration efficiency

11:00 - 11:20

O'Halloran:

Multimodal Rhetoric in Online Media Communications

Cerrato et al.:

BTT-SCAN: An ecological and technology enhanced tool to assess visual neglect

Fricke:

Using VR for immersive spatial exploration and user experience in the field of large-scale landscape architecture and urban design

11:20 - 11:40

Holloway-Attaway:

Designing game-based narratives and interactive worlds for cultural engagement

Kan-Kilic & Dogan:

Blind persons taking photos

Cartaud et al.:

Emotional responses to facial expressions in peripersonal space determine interpersonal distance in social interactions

11:40 - 12:00

Suchan:

Machine coding of narrative structures in visuo-spatial imagery

Doore et al.:

Conceptual structure and object salience in indoor scene descriptions

Ruotolo & van der Ham:

Emotional landmarks in a virtual route: The role of arousal and valence

12:00 - 12:20

Hemeren & Nair:

Actions, intentions and environmental constraints on biological motion perception

Vergniew et al.:

Spontaneous representation of vista spaces: Similarities and differences between sighted and blind people

Zaman:

An Inquiry into spatial language using virtual reality

12:20 - 12:40

Discussion

van der Kuil et al.:

Cognitive rehabilitation of spatial navigation impairment: A feasibility study

Saracini et al.:

Is artificial stereoscopy really helpful for a correct distance perception in virtual environments?

12:40 - 14:30

LUNCH BREAK

14:30 - 15:30

Aula Magna
KEYNOTE LECTURE 7:

John K. Tsotsos: *Attention is more important for visual cognition and reasoning than you think*

Chair: *D'Ausilio*

15:40 - 17:00

Aula III
POSTER SESSION 4
Attention, perception, emotion

- 1 - *Francois et al.:*
Anticipation of body-scaled action is related by socio-affective resources
- 2 - *Kastner et al.:*
The effects of digital drawing on social-emotional skills: A pilot study
- 3 - *Eberhardt & Huckauf:*
Crowding across depth
- 4 - *Rapuano et al.:*
Emotional facial expressions implicitly affect the regulation of interpersonal distances
- 5 - *Plewan & Rinkenauer:*
Influence of stereoscopic depth information on visual search
- 6 - *Favieri et al.:*
How social orienting affects attentional bias toward food stimuli
- 7 - *Martella et al.:*
The evaluation of attentional orienting in Italian and Chilean children with ADHD: Effects of two different school integration strategies
- 8 - *Chen et al.:*
The eccentricity effect of inhibition of return is dominated by the nasal retina
- 9 - *Tong et al.:*
The eccentricity effect of inhibition of return along the vertical meridian of the visual field

Aula VII
POSTER SESSION 5
Language, representation, imagery

- 1 - *Rahe et al.:*
Is the mental-rotation performance influenced by gender and orientation abilities?
- 2 - *Granito & Lindquist:*
Virtual reality in landscape architecture
- 3 - *Tucciarelli et al.:*
Spatial categories around bodies and objects
- 4 - *Morgado et al.:*
The effect of observed tool-use on distance perception
- 5 - *Polinsky et al.:*
Parent-child talk about spatial relational comparisons within an informal learning setting
- 6 - *Aktas Yanas:*
Investigating the role of imagistic imagery in aesthetic experience
- 7 - *Muto & Morikawa:*
Mental rotation of ears: Which type of transformation is elicited by left/right judgments of unmovable body parts?
- 8 - *Grossnickle et al.:*
Latent factors of mental rotation accuracy and speed: An item response theory analysis

Aula VIII
POSTER SESSION 6
Embodiment, motion, navigation

- 1 - *Meneghetti et al.:*
Dancing: A spatial activity that enhances visuospatial skills?
- 2 - *Piccardi et al.:*
Web search navigation strategies: The effect of age and intelligence
- 3 - *Frankenstein et al.:*
Street angle sensitivity in map reading
- 4 - *De Cock et al.:*
Navigating towards a more human-focused space syntax
- 5 - *Vanhaeren et al.:*
Off the beaten track: Intuitive indoor navigation support
- 6 - *Fiehler & Lu:*
Sensorimotor integration of allocentric spatial information for reaching
- 7 - *Pazzaglia et al.:*
Tracing a route and finding a shortcut: What are the cognitive, motivational, and personality factors involved?
- 8 - *Galatolo & Simone:*
Climbing as a couple: How sighted coaches and visually impaired athletes coordinate their perception and action in indoor guided climbing training
- 9 - *Skilters et al.:*
Differences in spatial skills among STEM and Humanities & Social Sciences' students: Evidence from SBSOD test

17:00 - 17:30

TEA BREAK

20:30

SOCIAL DINNER
Ristorante "Les Etoiles", Via Giovanni Vitelleschi 34

Friday, September 14

8:30 - 10:10

Aula III
SYMPOSIUM 10
Mental rotation (Part 1): Developmental aspects of mental rotation
Convenors: *Jansen & Quaiser-Pohl*

Aula VII
SYMPOSIUM 9
The nature of the space around the body: A comparison of real and virtual environments
Convenors: *Iachini & Ruggiero*

Aula VIII
TALK SESSION 9
Multisensory integration
Chair: *Georgescu*

8:30 - 8:50

Röthlisberger & Frick:
The role of stereo vision and 3D presentation on infants' mental object rotation

Farnè et al.:
Close is better: Evidence from real and virtual realities

Polidoro et al.:
Visual motion cues from a held tool contribute to the perception of one's arm movements

8:50 - 9:10

Zayed et al.:
Understanding the relationship between motor abilities, academic performance, and mental rotation, among Omani children (7 to 9 years)

Frassinetti et al.:
The space surrounding the body: Functional dissociation between social and action space in ASD children

Ruggieri & Berardi:
Role of bodily postural muscle tensions in perception of space during imagery

9:10 - 9:30

Lehmann & Jansen:
Relationship between mental rotation and working memory - developmental aspects

Coello et al.:
The social dimension of peripersonal space

Zdorovets & Tsaregorodtseva:
Reading 'sky' and listening to high pitch: Cross-modal mapping between pitch and word meaning

9:30 - 9:50

Fine & Constantine:
Gender difference in mental rotation in young children

Longo & Vagnoni:
Semantic modulation of time-to-collision judgments

Josa et al.:
A feeling of physical proximity: The role of relative fluency in distance judgments

9:50 - 10:10

Discussion

Iachini & Ruggiero:
The space near our body is special: The effect of socio-emotional dynamic factors

Sarmiento & Coppin:
Tactile interpretation of spatial relations in a live soccer game for non-visual soccer spectatorship

10:10 - 10:40

COFFEE BREAK

10:40 - 12:40

Aula III
SYMPOSIUM 3

Cross-cultural, cross-modal and cross-species' spatial perception and action in virtual and real environments

Convenors: *Dolins, Lindquist & Chamberlain*

10:40 - 11:00

Davis & Cashdan:

Spatial cognition and mobility among children in two traditional and transitioning populations, the Tsimane of Bolivia and the Tse of Namibia

11:00 - 11:20

Ozyurek:

What do the hands reveal about spatial language and cognition: Insights from gesture and sign

11:20 - 11:40

Quercia:
Sensory mapping

11:40 - 12:00

Lindquist et al.:

The influence of visual presentation mode and auditory fidelity on spatial perception and cognition

12:00 - 12:20

Chamberlain & Bruns:

Cue the space: The role of landmarks and navigational aids in spatial memory and recall

12:20 - 12:40

Dolins et al.:

Where the wild things are...and how they get there: Bonobo, chimpanzee and human use of visual spatial information to efficiently navigate in virtual reality

12:40 - 14:30

Aula VII
SYMPOSIUM 7

The body in the space

Convenor: *Fuchs*

Trojan et al.:

The rubber hand illusion induced by visual-thermal stimulation

Kilteni & Ehrsson:

Computational principles of the attenuation of self-generated touch

Maselli:

Bidirectional cause-effect relations between multisensory integration and body ownership illusions

Fuchs & Heed:

Active tactile search strategies improve localization of touch

Tamè et al.:

Neural correlates of distorted body representations underlying tactile distance perception

Milde et al.:

Evoked phantom sensations in amputees: A link between neural processing of body illusions and altered body perception

LUNCH BREAK

Aula VIII
TALK SESSION 4

Development, education and ageing

Chair: *Wiener*

Yang et al.:

Children's utilization of response, landmark, and metric strategies in spatial memory

Hodgkiss et al.:

The contribution of children's spatial skills to their scientific recall and reasoning about sound propagation

Lucero et al.:

Attentional networks and intellectual performance in children: Preliminary evidence from ERPs

Ness & Wang:

"Let's do it more bigger": Relationships between spatial language and constructive play

Caffò et al.:

Topographical disorientation in the young, the elderly, those with subjective memory complaints and patients with Mild Cognitive Impairment: The differential impact of normal and pathological aging on familiar and unfamiliar spatial memory tasks

Grossnickle Peterson et al.:

Individual differences in the improvement of spatial thinking following a high school geoscience course

14:30 - 15:30

Aula Magna
KEYNOTE LECTURE 8:
Alan Dix: *Space, time and memory: Tales from a long road*
Chair: *Catarci*

15:40 – 17:00

Aula III
DOCTORAL PRESENTATIONS

Aula VII
TALK SESSION 6
Gender Differences
Chair: *Grossnickle Peterson*

Aula VIII
SYMPOSIUM 13
Mental rotation (Part 2): Correlates of mental rotation and methodological issues
Convenors: *Quaiser-Pohl & Jansen*

15:40 - 16:00

(continued)

Munion et al.:
Gender differences in spatial navigation: An approach to characterizing how we wayfind

van der Ham et al.:
Individual differences in navigation ability: Impact of demographic factors and mental rotation ability

16:00 - 16:20

(continued)

Palmiero et al.:
Gender differences in route-navigation in a virtual environment

Pietsch & Jansen:
Mental rotation and laterality – Do right-handers always gain advantage over left-handers?

16:20 - 16:40

(continued)

Chacón Candía et al.:
Sex differences in attentional object selection triggered by gaze and arrows

Meneghetti et al.:
Mental rotation training in young and older adults: The role of practice and strategy

16:40 - 17:00

(continued)

Discussion

Quaiser-Pohl et al.:
Do gender differences in mental rotation disappear when objects other than cube figures are used as stimuli?

17:00 - 17:30

Aula Magna
CONFERENCE CLOSING

17:30

END OF THE CONFERENCE