



# 18th Annual Conference of the Italian Association of Cognitive Sciences

15-17 December 2022

Rovereto, Trento - Italy

## Thursday, December 15th

13:30-14:00	Aula Magna		
	<b>OPENING NOTE – AISC President Maria Cristina Amoretti</b>		
14:00-16:00	Aula 13	Aula Magna	
	<b>SYMPOSIUM</b>	<b>SYMPOSIUM</b>	
	Explaining Emergentism: Towards a non-reductionist metaphysics of mind and scientific phenomena  Organized by A. Velardi  with T. O'Connor, E. Onnis, M. Paolini Paoletti, F. Bellazi, S. Gozzano	Misinformation and misperceptions in online social systems  Organized by E. Polizzi  with F. Pongiglione, D. Vilone, R. Gallotti, A. Acerbi	
16:00-16:30	Coffee break		
16:30-18:00	Aula 13	Aula Magna	Aula 14
	<b>Cognition in Artificial Systems</b> <i>Chair: Alessio Plebe</i>	<b>Knowledge Representation &amp; Inference</b> <i>Chair: Gustavo Cevolani</i>	<b>Language Development</b> <i>Chair: Francesco Bianchini</i>
	A. Lieto - The minimal cognitive grid: a tool to rank the explanatory status of cognitive artificial systems  P. Bello, S. Bringsjord - Self-control and the control of attention: mechanisms and cognitive architecture  E. Bottazzi, R. Ferrario - Idolatry and artificial intelligence	A. Gebharter, B. Osimani - The formal structure(s) of analogical inference  D. Coraci, I. Douven, G. Cevolani - Inference to the best neuroscientific explanation  G. Righetti, D. Porello, R. Confalonieri - Evaluating the interpretability of formalisms for knowledge representation	C. Marino, C. Bernard, J. Gervain - Word frequency is a cue to lexical category for 8-month-old infants  C. Nallet, G. Lucarini, I. de la Cruz-Pavía, J. Gervain - Are babies' cries already language?  J. Gemignani, J. Gervain - Sex differences in repetition-based rule learning: a meta-analysis of fNIRS language studies
18:00-19:30	Aula Magna		
	<b>General intelligence today</b> <i>Chairs: Francesco Pavani &amp; Davide Serpico</i>		
	<b>KEYNOTE SPEAKERS</b>		
	<b>J. Duncan</b>  Brain mechanisms of general intelligence	<b>J. Hernández-Orallo</b>  The generality is here, but artificial general intelligence has gone	
20:30	<b>SOCIAL DINNER (Ristorante Novecento – Corso Rosmini, n. 82, Rovereto)</b>		

## Friday, December 16th

9:00-10:30	Aula 13	Aula Magna	Aula 14
	<b>Social Cognition</b>	<b>Cognitive Psychology 1</b>	<b>Representations &amp; Concepts</b>

	<i>Chair: Arianna Pavone</i>	<i>Chair: Eugenia Polizzi</i>	<i>Chair: Uri Hasson</i>
	<p>D. Ruzzante, J. Vaes - The human-object divide in person perception and what it can teach us about (de-) mentalization processes.</p> <p>S. Stefani, M. P. Paladino - Is the University the right place for me? The role of cultural norms and the educational functions on students' identification to higher education</p> <p>G. Gaggero - Interoceptive ability and cultural capital jointly predict levels of emotional awareness</p> <p>F. Ruzzante, L. Teresi, R. Pizzio, F. Panizza, G. Cevolani - Investigating social projection: a computational approach</p>	<p>L. Battistel, A. Vilardi, M. Zampini - An investigation of humans' sensitivity to environmental temperature</p> <p>L. Fontana, J. Albayay, I. Vlachou, M. Zampini - The effect of perceived odour edibility induced via conditioning on olfactory habituation</p> <p>C. Valzolgher, F. Pavani - Motor strategies: new insights on active behaviour from spatial hearing research</p>	<p>S. Viganò, R. Bayramova, C. Doeller, R. Bottini - Conceptual goals elicit egocentric-like vector representations and alter the allocentric grid structure of cognitive maps</p> <p>A. Bavaresco, N. Truong, H. P. Tarigopula, U. Hasson - Improving the fit between human and DNN representational spaces using weighted least squares regression</p> <p>F. Mannella, L. Tummolini - Kick-starting concept formation with intrinsically motivated learning: The grounding by competence acquisition hypothesis</p> <p>S. Amenta, G. Loca, G. Gianfreda, P. Rinaldi, F. Pavani - Is the word "ambulance" noisy for deaf people? Investigating conceptual representation in early deaf individuals</p>
10:30-11:00	Coffee break		
11:00-12:15	<p><b>Neuroscience 1</b> <i>Chair: Simona Monaco</i></p>	<p><b>Cognitive Psychology 2</b> <i>Chair: Sarah Placi</i></p>	<p><b>Autonomous Systems</b> <i>Chair: Antonio Lieto</i></p>
	<p>A. Santoni, L. Ronconi, L. Franchin, D. Melcher - Is visual temporal resolution defined by the duration of ongoing alpha oscillations?</p> <p>M. J. Y. Neoh, A. Bizzego, J. H. Teng, G. Gabrieli, G. Esposito - Neural processing of sexist criticism: Associations between perceptions of sexism and prefrontal activity</p> <p>M. Lim, J. J. Y. Tan, J. K. C. Wong, S. A. Chen, G. Esposito - Explaining creativity in psychodrama: interaction between emotional creativity and medial prefrontal cortex during dyadic interactions</p>	<p>C. Rodriguez Ronderos, F. Domaneschi - Predicting the f***ing word: An eye-tracking study on the benefits of negative expressive adjectives during sentence comprehension</p> <p>P. Frugarello, E. Rusconi, R. Job - The nature of improper weapons</p> <p>A. Ansani, M. Arcovito, F. Caruana, A. Falzone, M. Marini, F. Paglieri, M. Viola - Comprehension of foreign words (L2) with FFP2 and transparent masks: A study on multimodal phonological comprehension with obstruction</p>	<p>G. Bruno, A. Spoto - Moral reasoning behind the veil of ignorance: investigate information accessibility and perspective-taking in the context of autonomous transportation.</p> <p>A. Plebe, A. Plebe - Can autonomous driving benefit from imitating human cognition?</p> <p>G. Briggs - Ongoing challenges in explaining command rejection decisions by autonomous agents</p>
	Aula Magna		
12:15-12:30	Italian Reproducibility Network – Presentation by Vittorio Iacovella		
12:30-13:30	<b>KEYNOTE SPEAKER: M. Keane - A cognitive hitchhiker's guide to explaining AI</b>		
13:30-14:30	Lunch Break		
14:30-16:00	<p><b>Neuroscience 2</b> <i>Chair: Elisa Frasnelli</i></p>	<p><b>Cognitive Psychology 3</b> <i>Chair: Fabio Paglieri</i></p>	<p><b>Human-Computer Interaction</b> <i>Chair: Alessio Plebe</i></p>
	<p>S. Shomeil Zadeh Shoushtari, A. K. Beck, T. Schmidt, T. Lachmann - A systematic review of functional magnetic resonance imaging studies of flanker and response priming effects</p> <p>M. Bucur, E. Baruzzo, C. Papagno - Neurophysiological correlates of language recovery after tDCS in patients with aphasia</p>	<p>F. Catania, M. Spitale, S. Silleresi, F. Panzeri - Ironic Face and Voice</p> <p>C. De Livio, C. Fini, C. Mazzuca, A. Borghi - The role of voice self-perception in the conceptual representation of gender</p>	<p>M. Bacaro - Intentional stance, intentional attitude. an inquiry on types of intentionality in human-robot interaction</p> <p>G. Pisaneschi, E. Datteri - Social robots as depictions of social agents: explanatory import and ontological attitudes</p>

	M. Viola, E. Petrovich - Mapping the interaction between philosophy and neuroscience  H. Sasidharakurup, G. Naldi, S. Diwakar - Mathematical modelling of common cellular mechanisms in Parkinson's and Alzheimer's diseases	S. Moretti, I. Martini, A. Civani - What can body language reveal about the relationship between nature and culture? An interdisciplinary approach to the case of the "yes" and "no" gestures  C. Dapor, I. Sperandio, F. Meconi - Fading boundaries between the physical and the social world: insights and novel techniques from the intersection of these two fields	C. Lucifora, F. Poggi, M. Schembri, A. Gangemi - Virtual reality as a tool to promote social cohesion through embodied experience  M. Fasoli - Why do we need a theory of traps?
16:00-16:30	Coffee Break		
16:30-18:00	<b>Developmental Psychology</b> Chair: Irene Sperandio	<b>Cognitive Psychology 4</b> Chair: Francesco Pavani	<b>Philosophy of Mind and Cognition</b> Chair: Davide Serpico
	A. Fernández Blanco, C. A. Rojas-Barahona, M. N. Dib - Identifying patterns of math anxiety: a latent profile analysis of math anxiety toward mathematics knowledge and reasoning among Chilean children  C. A. Rojas-Barahona, M. N. Dib, A. Fernández Blanco, J. Gaete, R. Araya - development of cognitive and socioemotional skills: the impact of a digital tablet game in preschool children from deprived schools  A. Sharifi, I. Sperandio, S. Kamari - An investigation of visual neuropsychological function in ADHD children: a comparison between different ADHD subtypes  J. Gemignani, I. De la Cruz-Pavia, A. Martinez, C. Nallet, A. Pasquini, G. Lucarini, J. Gervain - The reproducibility of infant fNIRS studies: a meta-analytic approach	L. Moretti, I. Koch, C. von Bastian - Improving the split-half reliability of the congruency effect in the Stroop and Simon paradigms.  M. Petilli, F. Rodio, D. Gatti, L. Rinaldi, M. Marelli - Predicting false memories with convolutional neural networks: the effect of visual similarity in a DRM paradigm with pictorial stimuli  A. Coccaro, A. Maffei, K. Kleffner, P. Lenon Carolan, A Vallesi, G. D'Adamo, M. Liotti - The point of no return in the Emotional Stop-Signal Task: a matter of affect or method?  L. Simione, S. G. Chiarella - Mindfulness effects on body awareness and peripersonal space mediate its effect on increasing social skills: proposing a new research framework.	J. Pallagrosi, B. Cortesi - The dangers of dissecting phenomenology  M. Facchin - Illusionism as a theory of content: a preliminary sketch  R. Augusto - An orchestra with no maestro: the all too Humean model of cognition  S. Dellantonio, L. Pastore - The epistemic role of internal perception in the explanation of mental phenomena
18:00-19:00	Aula Magna  <b>KEYNOTE SPEAKER: F. Giannotti - eXplainable AI (XAI) a basic break towards synergistic human-machine interaction and collaboration</b>		
19:00-19:30	AISC ASSEMBLY		
<b>Saturday, December 17<sup>th</sup></b>			
	Aula 13	Aula Magna	Aula 14
9:30-10:30	<b>Individual Differences</b> Chair: Elisabetta Lalumera	<b>Beliefs &amp; Biases</b> Chair: Simon Stephan	<b>Psycholinguistics 1</b> Chair: Marco Marelli
	Y. Yakusheva - Features of cognitive elements of professional self-awareness of individuals in different styles of coping behavior  A. Criscuolo, M. Schwartze, S. Kotz - The 'body-brain dynamic system' for neurocognitive profiling	M. Calderisi - Is base-rate neglect a real fallacy?  M. Mangiarulo, B. D. Pulford, A. M. Colman - The dark side of confidence: Can people use confidence to deceive others?  L. Gagliardi - The role of cognitive biases in conspiracy beliefs: a literature review	C. Saponaro, D. Crepaldi, D. Cassasanto, R. Bottini - The role of consciousness in semantic processing. insights from metaphorical priming  A. M. Borghi, A. M. Gervasi, F. Mannella, L. Tummolini - Controllability and demonstrative reference: An experiment on the meaning of this and that  G. Garofalo, L. Riggio, F. Bianchini, E. Gherri - Syntax matters in shaping sensorimotor activation driven by nouns
10:30-11:00	Coffee break		

11:00-12:30	<b>Medical Reasoning</b> <i>Chair: Maria Cristina Amoretti</i>	<b>Choices</b> <i>Chair: Marco Viola</i>	<b>Psycholinguistics 2</b> <i>Chair: Francesca Panzeri</i>
	<p>A. Demichelis, M. Marini, D. Menicagli, G. Mancini, F. Panizza, G. Cevolani - Beliefs and intentionality change towards the vaccine campaign in perspective of the second booster dose administration: a multi-scales survey-based Italian questionnaire</p> <p>M. Fedyk, N. Sawyer, D. Moret - Inference to the best action and its basis in clinical expertise in nursing and medicine</p> <p>M. C. Amoretti, E. Lalumera - Values and cognitive biases in medicine: Different roles and strategies to deal with them</p>	<p>M. Marini, E. Colaiuda, S. Gastaldi, F. Paglieri, E. Addressi - Impact of irrelevant and phantom alternatives on preferences in capuchin monkeys (<i>Sapajus</i> spp.): evidence from a value-based food choice task</p> <p>E. Frasnelli, B. Smith, T. Fitch - Rats can distinguish grape varieties in wine</p> <p>A. Bogani, K. Tentori, B. Timberlake, S. Pighin - Counterfactual curiosity and aging</p> <p>C. Rastelli, A. Greco, N. De Pisapia, C. Finocchiaro - Exploring semantic search strategies underlying creative word association in children</p>	<p>M. Marelli, D. Gatti, L. Rinaldi - Beyond arbitrariness: evidence for semantic priming effects between words and pseudowords</p> <p>R. Bonandrini, S. Amenta, S. Sulpizio, M. Tettamanti, A. Mazzucchelli, M. Marelli - Sublexical information in morphological processing: form-to-meaning mapping or morpheme combination?</p> <p>M. Ciapparelli, M. Marelli, F. Günther - Semantic transparency in compound word reading: A computational investigation</p> <p>A. G. de Varda, M. Marelli - Predictive processing across languages in L1 and L2: a computational approach</p>
12:30-13:30	<p>Aula Magna</p> <hr/> <p><b>KEYNOTE SPEAKER: O. Deroy - Explaining how we feel about AI: Experimental and cross-cultural perspectives</b></p>		