

# 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		
	OPENING NOTE – AISC President Maria Cristina Amoretti		
14:00-16:00	Aula 13	Aula Magna	
	SYMPOSIUM	SYMPOSIUM	
	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
	Cognition in Artificial Systems	Knowledge Representation & Inference	Language Development
	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. Gebharder, 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		
	General intelligence today Chairs: Francesco Pavani & Davide Serpico		
	KEYNOTE SPEAKERS		
	J. Duncan	J. Hernández-Orallo	
	Brain mechanisms of general intelligence	The generality is here, but artificial general intelligence has gone	

## 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>
	D. Ruzzante, J. Vaes - The human-object divide in person perception and what it can teach us about	L. Battistel, A. Vilardi, M. Zampini - An investigation of humans' sensitivity to environmental temperature	S. Viganò, R. Bayramova, C. Doeller, R. Bottini - Conceptual goals elicit egocentric-like vector

	<p>(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. Pizziol, F. Panizza, G. Cevolani - Investigating social projection: A computational approach</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>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.</p>	<p>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	<b>Neuroscience 1</b>	<b>Cognitive Psychology 2</b>	<b>Autonomous Systems</b>
	<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>A. Ansani, M. Marini, I. Poggi, L. Mallia - Film music biases the viewers' remembering of a scene, but it's not about mood induction</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	<b>Neuroscience 2</b>	<b>Cognitive Psychology 3</b>	<b>Human-Computer Interaction</b>
	<p>A. Karami, M. Piazza - Is number represented independently from other quantities in the human brain?</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>M. Viola, E. Petrovich - Mapping the interaction between philosophy and neuroscience</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>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</p> <p>C. Dapor, I. Sperandio, F. Meconi - Fading boundaries between the physical and the social world: Insights and</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> <p>C. Lucifora, F. Poggi, M. Schembri, A. Gangemi - Virtual reality as a tool to promote social cohesion through embodied experience</p> <p>M. Fasoli - Why do we need a theory of traps?</p>

		novel techniques from the intersection of these two fields	
16:00-16:30	Coffee Break		
16:30-18:00	Developmental Psychology	Cognitive Psychology 4	Philosophy of Mind and Cognition
	<p>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</p> <p>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</p> <p>A. Sharifi, I. Sperandio, S. Kamari - An investigation of visual neuropsychological function in ADHD children: A comparison between different ADHD subtypes</p> <p>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</p>	<p>L. Moretti, I. Koch, C. von Bastian - Improving the split-half reliability of the congruency effect in the Stroop and Simon paradigms.</p> <p>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</p> <p>A. Coccaro, A. Maffei, K. Kleffner, P. Lennon 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?</p>	<p>J. Pallagrosi, B. Cortesi - The dangers of dissecting phenomenology</p> <p>M. Facchin - Illusionism as a theory of content: aPreliminary sketch</p> <p>R. Augusto - An orchestra with no maestro: The all too Humean model of cognition</p> <p>S. Dellantonio, L. Pastore - The epistemic role of internal perception in the explanation of mental phenomena</p>
18:00-19:00	Aula Magna		
	KEYNOTE SPEAKER: F. Giannotti - eXplainable AI (XAI) a basic break towards synergistic human-machine interaction and collaboration		
19.00-19.30	AISC ASSEMBLY		
Saturday, December 17 <sup>th</sup>			
	Aula 13	Aula Magna	Aula 14
9:00-10:30	Beliefs & Biases	Individual Differences and Mental/Neural Disorders	Psycholinguistics 1
	<p>M. Calderisi - Is base-rate neglect a real fallacy?</p> <p>V. Goyal - Price perception in foreign currencies: The reference dependence</p> <p>M. Mangiarulo, B. D. Pulford, A. M. Colman - The dark side of confidence: Can people use confidence to deceive others?</p> <p>L. Gagliardi - The role of cognitive biases in conspiracy beliefs: A literature review</p>	<p>Y. Yakusheva - Features of cognitive elements of professional self-awareness of individuals in different styles of coping behavior</p> <p>A. Criscuolo, M. Schwartze, S. Kotz - The 'body-brain dynamic system' for neurocognitive profiling</p> <p>F. Ervas, V. Cuccio - At the roots of epistemic injustice towards people with mental illness: The case of schizophrenia</p> <p>H. Sasidharakurup, G. Naldi, S. Diwakar - Mathematical modelling of common cellular mechanisms in Parkinson's and Alzheimer's diseases</p>	<p>G. Garofalo, L. Riggio, F. Bianchini, E. Gherri - Syntax matters in shaping sensorimotor activation driven by nouns</p> <p>C. Saponaro, D. Crepaldi, D. Cassasanto, R. Bottini - The role of consciousness in semantic processing. Insights from metaphorical priming</p> <p>A. M. Borghi, A. M. Gervasi, F. Mannella, L. Tummolini - Controllability and demonstrative reference: An experiment on the meaning of this and that</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>
10:30-11:00	Coffee break		
11:00-12:30	Medical Reasoning	Choices	Psycholinguistics 2

	<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. Finocchiario - 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. Bondandrini, 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>		