

Thursday, 31 August 2023

8:30 - 10:00	Symposia		
Room: Aphrodite Hall	Symposium 7: The Interplay Between Vision and Action Chair: Joo-Hyun Song	Symposium 8: Emergent categories of visual objects and scenes in infancy and deep neural networks: Brain constraints, learning, training, and language Chair: Liuba Papeo & Jean-Remy HochmannRoom: Adonis	
8:30	Working memory load influences sensorimotor simulation during reading. Laura E. Thomas	Footprints of visual cortex organization in early object categorization Céline Spriet, Jean-Rémy Hochmann, Liuba Papeo	
8:50	Integrating Mental And Sensorimotor Workspaces Joo-Hyun Song	Multivariate assessment of visual category representations in the infant brain from EEG Siying Xie, Radoslaw Cichy	
9:10	Beyond labeling THINGS-IN-3D: Is one visual hierarchy enough? Maryam Vaziri-Pashkam	Using deep neural networks as a model for the development of human visual categories <i>Hans Op de Beeck</i>	
9:30	Computational modelling of continuous reaching tasks reveals novel relationships between visual target selection and execution of reaching movements <i>Dietmar Heinke</i>	Categorizing scenes based on gist emerges by 18 months Maja Blesić, Agnes Kovacs	
10:00 - 11:00	Coffee Break Poster Sessions 7: Object perception and Scene Perception; Emotion & Social Talk		
	Object and Scene Perception Poster Session		
	High-level visual information of local fragments affects object recognition Elsa Scialom, Udo Ernst, David Rotermund, Michael H. Herzog		
	The Temporal Dynamics of Size Constancy in Natural Scenes Lu-Chun Yeh, Daniel Kaiser, Elisa Battistoni, Surya Gayet, Marius Peelen		
	Is peripheral object discrimination relying on visual imagery? Carolina Maria Oletto, Giulio Contemori, Luca Battaglini, Marco Bertamini		
	The probabilistic nature of coding episodic memories Jozsef Fiser, David Magas		
	Spontaneously emerging structural constraints and top-down expectations jointly determine representational efficiency in a predictive coding network Stefan Brugger, Rosalyn Moran, Christoph Teufel		
	Feature synergy is based on regional saliency during figure-ground Cordula Hunt, Günter Meinhardt	d segregation	
	Are visual processing tendencies associated with a difference in Body Image Concern? Elena Buβ, Alexander Pastukhov, Claus-Christian Carbon Using the Natural Scenes Dataset to identify brain regions responsive to the colour statistics of objects in natural scenes Ian Pennock, Jenny Bosten, Anna Franklin		
	Task-independent allocentric representation of symmetry using po Elena Karakashevska, Alexis Makin, Marco Bertamini	olygons	

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Individual Differences in Internal Models Determine Scene Perception Gongting Wang, Matthew Foxwell, Radoslaw Cichy, David Pitcher, Daniel Kaiser

The effect of natural scene statistics in static and dynamic synthetic images on perceived restoration and shape discrimination Michelle Roberts, Carolyn Lee, Branka Spehar

Al versus CG, Al generated convincing materials in different shapes Yuguang Zhao, Huib de Ridder, Jeroen Stumpel, Maarten Wijntjes

Influence of curvature and visual context on the perception of artificial human skin appearance Soyogu Matsushita

Animal, plant or mineral: disentangling object concepts from visual features Sophia Shatek, Thomas Carlson

Cardinal repulsion biases of real-world objects in three dimensions Anantaporn Sena, Rosanne Rademaker, Chaipat Chunharas

Out of sight: The Impact of Hidden Objects on Visual Search in 3D Scenes. Jonathan Niklas Mader, Erwan David, Melissa Lê-Hoa Vo

Do changes in the ability to perceive shape from shading index cognitive function? Evidence for sexspecific effects. Beverley Pickard-Jones, Ayelet Sapir

Untangling the contributions of conceptual similarity and scene entropy in the success of meaning maps Maarten Leemans, Claudia Damiano, Johan Wagemans

Semantic Contrast: Quantifying the Change in Semantic Content Across Images Sophie Heer, Marek A. Pedziwiatr, Peter Bex, Antoine Coutrot, Isabelle Mareschal

Towards Fairly Evaluating Object Detection Performance in Humans and Machines Vasha DuTell, Anne Harrington, Ayush Tewari, Mark Hamilton, Simon Stent, William T. Freeman, Ruth Rosenholtz

A flower in a vase and a plant in a pot: The visual representation of spatial relations Sofie Vettori, Jean-Rémy Hochmann, Liuba Papeo

Spatial-frequency channels for object recognition by neural networks are twice as wide as those of humans. An explanation for shape bias? Ajay Subramanian, Elena Sizikova, Najib J. Majaj, Denis G. Pelli

Symmetry Detection in Images of Natural Scenes by Humans and Machines Lisa Koßmann, Gonzalo Muradás Odriozola, Christophe Bossens, Johan Wagemans

LangMark – object annotations for scenes with semantic inconsistencies to connect language models to vision science Marek A. Pedziwiatr, Sophie Heer, Peter Bex, Antoine Coutrot, Melissa Le-Hoa Võ, Isabelle Mareschal

Emotion & Social Talk Poster Session

Investigating the Emotional Responses and Preferences of Individuals to AI-Generated visual stimuli Simone Grassini, Mika Koivisto

To investigate the influence of body perception and body satisfaction on eating attitudes Xing-Rou Wong, Pin-Yun Lin, Chia-Yao Lin, Li-Chuan Hsu, Yi-Min Tien

Online food choices: When does "recommended by" work? Daniele Catarci, Lea Laasner Vogt, Swen Jonas Kühne, Lars Bläuer, Ester Reijnen

Influence of context on facial expression perception in an at-risk sample of children with emotional difficulties Ozge Gezer, Christoph Teufel, Stephanie Van Goozen, Elisabeth Von Dem Hagen



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Impact of morality on the attentional blink Risako Shirai, Hirokazu Ogawa

Seeing Trouble: Relationship between Sensitivity and Threat in response to Ambiguous Emotional Expressions Deepshikha Prasad, Mary-Ellen McKendrick, Louise Delicato, Gnanathusharan Rajendran

A model of the interference caused by the presence of others: the role of others' intention. *Gabriele Pesimena, Alessandro Soranzo*

A model of the interference caused by the presence others Alessandro Soranzo, Gabriele Pesimena

Is imagination necessary for emotional engagement with verbal storytelling? Noha Abdelrahman, Francesco Mantegna, Maria Pombo, David Melcher

Real or fake? The authenticity evaluation of photojournalistic images depends on the viewers' political beliefs. Beata Pacula-Leśniak, Joanna Pilarczyk, Tomasz Kulczycki, Michał Kuniecki

Different leveraging of contextual visual information during the prediction of social and non-social perceptual events in typical and atypical neurodevelopment.

Alessandra Finisguerra, Sara Boscarol, Lucia Amoruso, Tiziana Zilli, Antonio Narzisi, Cosimo Urgesi

Are social interactions preferentially attended in real-world scenes? Evidence from eye-tracking Mahsa Barzy, Eugene McSorley, Rachel Morgan, Richard Cook, Katie Gray

Art & Aesthetics Poster Session

Low aesthetic value ("ugliness") without semantics C. Alejandro Parraga, Marcos Muñoz González

The effects of art expertise on the relationship between perceived object stability and aesthetic judgments Emika Okumura, Toshimasa Yamanaka

The effect of agency on the beauty of images Anna Bruns, Denis Pelli

Exploring preference for symmetry using the method of production Andreas Gartus, Helmut Leder

Effects of Spatial Ability on Complexity Preference in the Aesthetic Appreciation of Chinese Landscape Paintings Kunlin Jin, Kang Zhang, Rongrong Chen

The automaticity of 'seeing-in': Pictorial depth cues influence judgments of surrounding spatial relationships even when task-irrelevant June Huang, Kexuan Zhang, Benjamin van Buren

Objective vs subjective order and complexity in relation to aesthetics tested with evolutionary algorithms Elisabeth Van der Hulst, Alexander Pastukhov, Eline Van Geert, Claus-Christian Carbon, Johan WAGEMANS

Aesthetic experience in museum vs. laboratory: psychophysiological and behavioral evidence Serena Castellotti, Ottavia D'Agostino, Maria Del Viva

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11:00 - 13:00	Talk Sessions 7: Contrast, Lightness, Adaptation; Real-world settings & VR		
Room: Adonis	Lightness, Brightness, Contrast & Adaptation session Chair: Luca Battaglini	Real-world settings & VR Papers sessionRoom:Chair: Tamara WatsonAphrodite Hall	
11:00	Contrast Modulation Effects for Different Flanker Contrasts, Separations, and Eccentricities Luca Battaglini, Giulio Contemori, Gianluca Campana, Charles Wani Victor Ladu, Giuditta Cossi, Marcello Maniglia	Navigating Virtual Worlds: A Graph Theoretical Analysis of Eye Tracking Data Recorded in Virtual Reality to Examine Spatial Navigation Jasmin L. Walter, Vincent Schmidt, Lucas Essmann, Sabine U. König, Peter König	
11:15	Achromatic Increment and Decrement Contrast Processing Differs Qualitatively Rhea Eskew, Yangyi Shi	Toward Automatic Detection of Gaze Events in Natural and Dynamic Viewing Ashkan Nejad, Gera de Haan, Joost Heutink, Frans Cornelissen	
11:30	Two kinds of top-down effects in an edge integration model of lightness <i>Michael Rudd</i>	Presence in VR predicts hedonic, but not practical user experience rating in an orthoptic psychomotor learning simulation. Georg Meyer, Jignasa Mehta, David Newsham, Ryan Ward, Simon Campion	
11:45	Seeing in the dark: face recognition, reading and visual crowding under scotopic conditions Deena Elul, Ayelet McKyton, Netta Levin	The effects of depth of field on attention in whilst exploring a virtual environment Szonya Durant, Doga Gulhan, Harsimran Suri, Joshua Hai- der-Smith, Kiah Vekaria	
12:00	Adaptation to invisible flicker induces spatial distance compression Ljubica Jovanovic, Paul McGraw, Neil Roach, Alan Johnston	Investigating obstacle avoidance for real and pictorial obstacles Martin Giesel, Daniela Ruseva, Constanze Hesse	
12:15	Transfer of motor and CD gain adaptation in the vicinity of the adaptation target Jana Masselink, Markus Lappe	Head movements influence visual stability across gaze shifts Eckart Zimmermann, Manuel Bayer	
12:30	Posture aftereffects – Does the visual system adapt to different representations of posture? Eva Tzschaschel, Kevin R. Brooks, Ian D. Stephen	Hemianopia, cycling and scanning behaviour in virtual and real environments Eva Postuma, Gera de Haan, Ashkan Nejad, Joost Heutink, Frans Cornelissen	
12:45	Sensorimotor Adaptation while Navigating in Uncertain Virtual Environments Benedikt Kretzmeyer, Meaghan McManus, Constantin Rothkopf, Katja Fiehler	Effect of saliency on gaze behaviour in VR Visual Search Tamara Watson, Niklas Stein, Markus Lappe, Szonya Durant	
13:00 - 14:30	Lunc	h Break	



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14:30 - 16:00	Talk Sessions 8: Object perception; Emotion & Social	
Room: Aphrodite Hall	Object perception session Chair: Tijl Grootswagers	Emotion & Social Talk session Room: Adonis Chair: Jelena Ristic Room: Adonis
14:30	Using AI-generated synthetic images to drive object responses in the human brain Tijl Grootswagers, Genevieve Quek, Jessica Chin, Manuel Varlet	Neural mechanisms of costly helping in the general population and mirror-pain synesthetes Kalliopi Ioumpa, Selene Gallo, Christian Keysers, Valeria Gazzola
14:45	Human shape perception spontaneously discovers the biological origin of never-before-seen stimuli Guido Maiello, Kira Dehn, Frieder Hartmann, Yaniv Morgenstern, Sara Joy Hawkins, Thomas Offner, Joshua Walter, Thomas Hassenklöver, Ivan Manzini, Roland Fleming	The Influence of Hatha Yoga on Stress, Anxiety, and Suppression Bence Szaszkó, Rebecca Rosa Schmid, Ulrich Pomper, Mira Maiworm, Sophia Laiber, Hannah Tschenett, Urs Nater, Ulrich Ansorge
15:00	The representation of diverse visual material properties in the human brain Hua-Chun Sun, Filipp Schmidt, Jacob Cheeseman, Alexandra Schmid, Martin Hebart, Roland Fleming	Neural dynamics supporting context-based social perception in health and disease Lucia Amoruso, Shuang Geng, Nicola Molinaro, Santiago Gil-Robles, Garazi Bermudez, Iñigo Pomposo, Ileana Quiñones, Manuel Carreiras
15:15	Interactive images for visual material communication Maarten Wijntjes, Aaron Kaltenmaier	Social Perceptual Grouping is Sensitive to Group Size Jelena Ristic, Luowei Yan, Clara Colombatto
15:30	Behavioral detectability of optogenetic stimulation of inferior temporal cortex varies with the visibility and size of concurrently viewed objects. Rosa Lafer-Sousa, Karen Wang, Reza Azadi, Simon Bohn, Emily Lopez, Arash Afraz	Integrative processing in artificial and biological vision predicts the perceived beauty of natural images Sanjeev Nara, Daniel Kaiser

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16:15 - 17:15	Poster Sessions 8: Contrast, Lightness, Adaptation; Real-world settings & VR
	Contrast, Lightness, Adaptation Poster Session
	Glare's calculated patterns of light on retinal receptors Alessandro Rizzi, John McCann
	Modelling age-related changes in spatio-chromatic contrast sensitivity across a large luminance range Maliha Ashraf, Sophie Wuerger, Jasna Martinovic, Rafal Mantiuk
	Adaptative binocular disparity behaviours in response to contrast changes in a reading-like task Ruomeng Zhu, Richard Shillcock
	Contour erasure reveals local mechanisms underlying perceptual filling-in Mark Greenlee, Yih-Shiuan Lin, Chien-Chung Chen
	Individual differences in crowding and their impact on feature and conjunction search Ines Verissimo, Christian Olivers
	Impact of crowding on visual appearance in Amblyopia Ângela Gomes Tomaz, Sunwoo Kwon, Dennis M. Levi, Wolf M. Harmening, Bilge Sayim
	Temporal modulation of redundancy masking Mert Can, Bilge Sayim
	Is visual angle equal to retinal angle? Hans Strasburger, Michael J. Simpson
	AIM+ (Angular Indication Measurement) Efficient Assessment of Multidimensional Functions Peter Bex, Jan Skerswetat
	Shape from shading consists of pre-attentive and attentive processes Ayelet Sapir
	Intra-object brightness contrast influences perceived time to collision Christoph von Castell, Carolin Sweeney, Heiko Hecht
	Visual function in non-overlapping visual field defects: dichoptic experiments in healthy subjects with simulated scotomas Mehrdad Gazanchian, Frans W. Cornelissen, Nomdo M. Jansonius
	Theoretical consequences of the maniatis variation of slc Predrag Nedimović, Sunčica Zdravković
	Exploring the contrast sensitivity function through noise equivalent contrast Hannah E. Broadbent, Eric Liggins
	Effects of Delay Adaptation on Multisensory and Motor Integration for Duration Reproduction Lingyue Chen, Zhuanghua Shi
	No pooling in crowding: Deterioration of orientation discrimination with increasing numbers of identical Gabors Li L-Miao, Sabrina Hansmann-Roth, Wolf M. Harmening, Bilge Sayim
	Confidence in the Rapid Assessment of Peripheral Crowding Strength Dilce Tanriverdi, Frans W. Cornelissen
	Crowding reduces reading speed and comfort Maria Pombo, Minjung Kim, Denis G. Pelli

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Redundancy masking in regular and irregular patterns Bilge Sayim, Sabrina Hansmann-Roth

What is gloss? Roland Fleming

Glare from LED illuminants of different colour temperature under simulated driving conditions at night Beatriz M Matesanz, Eduardo G Vicente, Miguel Rodriguez-Rosa, Luis A Issolio, Isabel Arranz

Identifying the principles of causal perception through visual adaptation transfer Jonathan F. Kominsky

Audiovisual spatial ventriloquism is reduced in musicians. Matthew O'Donohue

Transfer of reafference signal adaptation across smooth pursuit speeds Rozana Ovsepian, David Souto, Alexander C. Schütz

Effect of spatial context on perceived walking direction Chang Chen, W. Paul Boyce, Colin J. Palmer, Colin W.G. Clifford

Second Order Chromatic Contrast Sensitivity Marcelo Fernandes Costa, Otávio Correa Pinho, Leonardo Dutra Henriques

Feed-forward projections from V1 to EBA sustain body visual adaptation: a ccPAS study Cosimo Urgesi, Giulia D'Argenio, Alessandra Finisguerra

Individual differences in change detection and the motion aftereffect Kristina Zeljic, Joshua Solomon, Michael Morgan

Neurophysiological correlates of foveal crowding and tagging Ziv Siman Tov, Maria Lev, Uri Polat

Unveiling the foveal rod scotoma through an afterimage Lisa Widmayer, Hui Men, Alexander C. Schütz

Real-world Settings & VR Poster Session

Investigating the Impact of Audio-Visual Training in Virtual Reality on Learning Outcomes through Multisensory Integration: An Analysis of fMRI and DTI Data Kholoud Alwashmi, Georg Meyer, Fiona Rowe

Systematic Bias in Object Location Memory Across Perspectives: Evidence from Immersive Virtual Reality Vladislava Segen, Marios Avraamides, Thomas Wolbers, Jan Wiener

Facial expression recognition modulated by forward and backward steps in virtual reality Yugo Kobayashi, Hideki Tamura, Shigeki Nakauchi, Tetsuto Minami

Recording fixation onset ERPs in virtual reality

Debora Nolte, Marc Vidal de Palol, Ashima Keshava, John Madrid, Anna L. Gert, Peter König

Depth Cues Reduction and Perception of Audiovisual Synchrony in Virtual Reality Victoria Korshunova-Fucci, Hsiao Ming Fan, Jinqi Liu, Raymond H. Cuijpers

Teleporting impairs scene recognition in virtual environments. Christodoula Gabriel, Adamantini Hatzipanagioti, Alexia Galati, Savvas Avraam, Marios Avraamides

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Stride length decreases during overground walking while wearing a head mounted display Maximilian Stasica, Gregor Schwinn, André Seyfarth

Modulation of Postural Control and Somatosensory Processing via Predictability in a Virtual Moving Room Fabian D. Wachsmann, Dimitris Voudouris, Katja Fiehler

The type of interaction with virtual environment influences on presence effect *Yulia Rogoleva, Artem Kovalev*

Vertical vergence and screen alignment with see-through head-mounted displays Agostino Gibaldi, Yinghua Liu, Christos Kaspiris-Rousellis, Madhumita Mahadevan, Björn N. S. Vlaskamp, Gerrit W. Maus

17:15 - 18:15 Business Meeting

20:00 - 22:00 Farewell Party - Pantheon Ballroom A