

# 41st European Conference on Visual Perception ECVP 2018

26–30 August 2018 | Trieste, Italy



## **DETAILED PROGRAMME**

		SUNDAY 26th	MONDAY 27th	TUESDAY 28th	WEDNESDAY 29th	THURSDAY 30th
8:00	8:30		Registration	Registration	Registration	Registration
8:30	9:00		Talks & Symposia 1	Posters 1	Talks & Symposia 3	Talks & Symposia 8
9:00	9:30				Coffee break	Coffee break
9:30	10:00		Coffee break	Posters 2	Talks & Symposia 4	Talks & Symposia 9
10:00	10:30		Talks & Symposia 2		Break	Lunch
10:30	10:45		Lunch	Posters 3		
10:45	11:00				Registration	Posters 4
11:00	11:30		Kanizsa Lecture <i>Walter Gerbino</i>	Talks & Symposia 6		
11:30	11:45				Coffee break	Break
11:45	12:00		Opening	Rank Prize Lecture <i>Branka Spehar</i>		
12:00	12:30				Troscianko Memorial Lecture	Perception Lecture <i>Dejan Todorovic</i>
12:30	12:45		Welcome Social Event	Conference Party		
12:45	13:00				About ECVF 2018	
13:00	13:30		23:00	00:00		
13:30	14:00					
14:00	14:15					
14:15	14:30					
14:30	15:00					
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20:30	23:00					
23:00	00:00					

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## VENUES

	Sunday 26th	Monday 27th	Tuesday 28th	Wednesday 29th	Thursday 30th
Morning		Blue	Red	Blue	Blue
Lunch		Blue	Blue	Blue	Blue
Afternoon	Yellow	Yellow	Red	Blue	Blue
Evening	Yellow		Red	Green	

Yellow	Stazione Marittima
Blue	University
Red	Molo IV
Green	Savoia Excelsior Palace

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## SUNDAY, August 26<sup>th</sup> 2018

		SUNDAY 26th	Venue
14:30	15:00	Registration	Stazione Marittima
15:00	15:30		
15:30	16:00		
16:00	16:30		
16:30	17:00		
17:00	17:30		
17:30	18:00	Opening	
18:00	18:30	Troscianko Memorial Lecture <i>Peter Thompson</i>	
18:30	19:00	Perception Lecture <i>Dejan Todorovic</i>	
19:00	19:30		
19:30	20:00	About ECVP 2018	
20:00	20:30	Welcome Social Event	
20:30	23:00		

# SUNDAY, August 26<sup>th</sup> 2018

**REGISTRATION – STAZIONE MARITTIMA 14.30-17.30**

**OPENING – STAZIONE MARITTIMA 17.30-18.00**

**TOM TROSCIANKO MEMORIAL LECTURE – STAZIONE MARITTIMA 18.00-18.30**

Chair: Tiziano Agostini

Lecturer: *Peter Thompson*

**PERCEPTION LECTURE – STAZIONE MARITTIMA 18.30-19.30**

Chair: Peter Thompson

**VISUAL ILLUSIONS AND CONTEXTUAL EFFECTS**

*Dejan Todorović*

**ABOUT ECVF 2018 – STAZIONE MARITTIMA 19.30-20.00**

**Information from the organizers**

*Tiziano Agostini*

**WELCOME SOCIAL EVENT – STAZIONE MARITTIMA 20.00-23.00**

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## MONDAY, August 27<sup>th</sup> 2018

		MONDAY 27th	Venue				
8:00	8:30	Registration	University campus	Sessions			
8:30	9:00			Attention I	Mobile eye tracking – What can we learn from real world experiments?	The neural codes that support visual working memory representation	Strange blues: Melanopsin- mediated perception of space, colour and brightness
9:00	9:30	Talks & Symposia 1		<i>Auditorium</i>	<i>Hall 1A</i>	<i>Hall 1B</i>	<i>Hall 2B</i>
9:30	10:00						
10:00	10:30			Coffee break			
10:30	11:00			Attention II	Role of articulation in perception of surface lightness	On pre-neural influences on vision: visual processing before light enters the neural pathway	Memory & Learning
11:00	11:30	Talks & Symposia 2		<i>Auditorium</i>	<i>Hall 1A</i>	<i>Hall 1B</i>	<i>Hall 2B</i>
11:30	12:00						
12:00	12:30			Lunch			
12:30	13:00						
13:00	13:30						
13:30	14:00						
14:00	14:30						
14:30	15:00						
15:00	15:30						
15:30	16:00						
16:00	16:30	Kanizsa Lecture <i>Walter Gerbino</i>	Stazione Marittima				
16:30	17:00	Coffee break					
17:00	17:30	Rank Prize Lecture <i>Branka Spehar</i>					
17:30	18:00						
18:00	18:30						

# MONDAY, August 27<sup>th</sup> 2018

**TALK SESSION – UNIVERSITY CAMPUS, AUDITORIUM (BUILDING H3)**

**9.00-10.30**

## **ATTENTION I**

**Visual crowding in densely cluttered displays depends on the identity and distance of the target's nearest neighbours**

*Erik van der Burg, John Cass, Kay Cordewener, Chris Olivers*

**Reacting to critical events during multiple object tracking**

*Emily Crowe, Chris Kent*

**Feature-specific resources for the colour and orientation of objects in visual short-term memory**

*Doug Barrett, Michael Pilling*

**The effect of spatial pre-cues is not only pre-attentive, it's largely monocular**

*Joshua Solomon, Michael Morgan*

**Attention and Self-relevance: Enhanced perception of self-relevant visual stimuli**

*Arash Sahraie, Aleksandar Visokomogilski, Marius Golubickis, C. Neil Macrae*

**Illusions of morality: Visual impressions of causality override overt judgment in moral decision making**

*Clara Colombatto, Brian Scholl*

**SYMPOSIUM – UNIVERSITY CAMPUS, HALL 1A (BUILDING H3)**

**9.00-10.30**

**MOBILE EYE TRACKING – WHAT CAN WE LEARN FROM REAL WORLD EXPERIMENTS?**

Organized by Szonya Durant, Tim Holmes, Johannes Zanker

**From eyecups to teacups: The development of and insights from mobile eye trackers**

*Benjamin Tatler*

**Eye movements during face-to-face communication: A cross-cultural comparison**

*Jennifer Haensel*

**Mobile eye tracking in landscape architecture - Being an invisible companion**

*Christian Nollen, Dirk Junker*

**Eye movements and aesthetic experience: From the lab to the gallery, to VR**

*Johannes Zanker*

**THE NEURAL CODES THAT SUPPORT VISUAL WORKING MEMORY REPRESENTATION**

Organized by Rosanne Rademaker

**Simultaneous representation of mnemonic and sensory information in human visual cortex**

*Rosanne Rademaker, Chaipat Chunharas, John Serences*

**The role of neurons across visual processing stages in working memory**

*Diego Mendoza-Halliday, Santiago Torres, Robert Desimone, Julio Martinez-Trujillo*

**Coding of visuo-spatial working memory by neuronal ensembles in primate lateral prefrontal cortex**

*Julio Martinez-Trujillo, Matthew Leavitt*

**When working memory is stored in sensory areas and when it is not**

*Thomas Christophel*

**Synaptic and network mechanisms of serial biases in spatial working memory**

*Albert Compte, Joao Barbosa, Heike Stein, Diego Lozano-Soldevilla, Christos Constantinidis*

**STRANGE BLUES: MELANOPsin-MEDIATED PERCEPTION OF SPACE, COLOUR AND BRIGHTNESS**

Organized by Manuel Spitschan

**Integration of melanopsin signals into visual pathways**

*Pablo A. Barrionuevo, Dingcai Cao*

**Characterising melanopsin photoreception in humans: Why, how, and with which degree of precision and accuracy?**

*Manuel Spitschan*

**Melanopsin mediated photoreception in humans**

*Andrew J. Zele*

**Human visual performance based on cone and melanopsin photoreceptors**

*Sei-ichi Tsujimura*

**Does blue light wake you up or make you down? Visual and non-visual effects of varying light spectra**

*Anya Hurlbert, Gaurav Gupta, Yvonne Lai, Naomi Gross, Stacey Aston, Brad Pearce, Kirstie Anderson*

**Redesigning visual displays to understand melanopsin's contribution to vision**

*Annette Allen*



**ATTENTION II**

**Spatial spread of visual attention measured using Steady-State Visually Evoked Fields (SSVEF)**

*Satoshi Shioiri, Takumi Miura, Kazumichi Matsumiya, Ichiro Kuriki, Kaoru Amano*

**Alpha oscillations do not reflect an active mechanism for suppressing visual distractor processing**

*Plamen Antonov, Ramakrishna Chakravarthi, Søren Andersen*

**Sequential cued shifts of feature-based attention and the effect of the prior attentional state**

*Søren K. Andersen, Leili Soo*

**How Top-down attention alters Bottom-up preconscious operations**

*Peter Tse, Peter Kohler, Eric Reavis, Liwei Sun, Kevin Hartstein, Gideon Caplovitz*

**Gaze and attention: Mechanisms underlying the therapeutic effect of smooth pursuit eye movement training in spatial neglect**

*Daniela Balslev, Alexandra Mitchell*

**Late enhancement of visual attention after multi-method brain stimulation**

*Grace Carolyn Alys Edwards, Federica Contò, Loryn Bucci, Lorella Battelli*

**ROLE OF ARTICULATION IN PERCEPTION OF SURFACE LIGHTNESS**

Organized by Alan Gilchrist

**Strong impact of articulation on lightness: Theoretical implications**

*Alan Gilchrist*

**Effects of articulation on lightness constancy**

*Sunčica Zdravković*

**Sampling surfaces to estimate scene illumination colour**

*David Foster*

**Changing lights on changing scenes: Dynamic articulation disturbs illumination estimation**

*Anya Hurlbert*

**Articulation and lightness illusions**

*Elias Economou*

**ON PRE-NEURAL INFLUENCES ON VISION: VISUAL PROCESSING BEFORE LIGHT ENTERS THE NEURAL PATHWAY**

Organized by Katharina Rifai, Markus Lappe

**Modelling early influences on visual perception**

*Felix Wichmann, Heiko H. Schütt*

**Visual consequences of fixational instability outside the fovea**

*Michele Rucci, Martina Poletti, Norick R. Bowers, Jonathan D. Victor, Janis Intoy*

**Modulation of stimulus processing in human primary visual cortex around the time of saccadic eye movements**

*Tamara Watson, Damien Mannion, Colin Clifford*

**Visuomotor representation of space during monocular viewing in primates**

*Frank Bremmer, Stefan Dowiasch, Adam Morris*

**Domain specificity of oculomotor learning after pre-neural changes in sensory processing**

*Miguel Eckstein, Yuliy Tsank*

**MEMORY & LEARNING**

**History effects on perception of noisy stimuli**

*Nikos Gekas, Pascal Mamassian*

**Serial dependencies occur at a sensory stage**

*Guido Marco Cicchini, Kyriaki Mikellidou, David Charles Burr*

**Posterior cingulate cortex and the recognition of highly abstract visual stimuli**

*Boris B. Velichkovsky, Stanislav A. Kozlovskiy, Anton Rogachev, Alisa Suyuncheva, Alexandra Galanina*

**Unconscious working memory outside the focus of attention**

*Marjan Persuh, Alexander Rue*

**Parallel visual and motor selection from working memory**

*Freek van Ede, Sammi Chekroud, Mark Stokes, Kia Nobre*

**Four-frame humor comic Manga activates TPJ, MPFC and cerebellum in the brain: An fMRI study based on working memory**

*Mariko Osaka, Ken Yaoi, Takehiro Minamoto, Miyuki Azuma, Mizuki Kaneda, Naoyuki Osaka*

**KANIZSA LECTURE – STAZIONE MARITTIMA**

**16.00-17.00**

Chair: Carlo Fantoni

**PERCEPTION AND PAST EXPERIENCE 50 YEARS AFTER KANIZSA'S (IM)POSSIBLE EXPERIMENT**

*Walter Gerbino*

**COFFEE BREAK – STAZIONE MARITTIMA**

**17.00-17.30**

**RANK PRIZE LECTURE - STAZIONE MARITTIMA**

**17.30-18.30**

Chair: John Mollon

**FRACTALS, VISION AND AESTHETICS**

*Branka Spehar*

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## TUESDAY, August 28<sup>th</sup> 2018

		TUESDAY 28th	Venue	Sessions
8:00	8:30	Registration	Molo IV	3D Vision, Depth and Stereo; Adaptation; Aging; Applied Vision; Art; Attention; Biological Motion; Bistable Perception; Clinical; Colour; Crowding
8:30	9:00	Posters 1		
9:00	9:30			
9:30	10:00			
10:00	10:30	Coffee break		
10:30	10:45	Posters 2	University Campus	Computational Models; Decision Making; Development; Eye Movements; Faces; Grouping; Learning; Magnitude, Time and Numerosity
11:00	11:30			
11:30	11:45			
11:45	12:00	Break	Lunch	Illusions; Lightness & Brightness; Motion; Multisensory; Memory; Object Perception; Object Recognition; Peripheral Vision
12:00	12:30			
12:30	12:45	Posters 3	Molo IV	Perception & Action; Perceptual Organization; Research Methods; Scene Perception; Spatial Vision; Surface & Texture; Temporal Processing; Visual Search
12:45	13:00			
13:00	13:30			
13:30	14:00	Posters 4	Molo IV	Perception & Action; Perceptual Organization; Research Methods; Scene Perception; Spatial Vision; Surface & Texture; Temporal Processing; Visual Search
14:00	14:15			
14:15	14:30			
14:30	15:00	Break		
15:00	15:15	Posters 4	Molo IV	Perception & Action; Perceptual Organization; Research Methods; Scene Perception; Spatial Vision; Surface & Texture; Temporal Processing; Visual Search
15:15	15:30			
15:30	16:00			
16:00	16:30	Posters 4	Molo IV	Perception & Action; Perceptual Organization; Research Methods; Scene Perception; Spatial Vision; Surface & Texture; Temporal Processing; Visual Search
16:30	17:00			
17:00	17:15			
17:15	17:30			
17:30	18:00			
18:00	18:30			
18:30	19:00			
19:00	19:30			
19:30	20:00	Illusion exhibition "Un mare di illusioni"	Molo IV	
20:00	20:30	Conference Party		
20:30	23:00			
23:00	00:00			

# TUESDAY, August 28<sup>th</sup> 2018

Tuesday 28<sup>th</sup> will be entirely dedicated to poster presentations. There will be four poster sessions: two in the morning (Session 1 and 2) and two in the afternoon (Session 3 and 4), with approximately 130 posters per session. Each poster has a code indicating the board number (from 1 to 266) and when it will be exposed (M = morning; A = afternoon).

**Morning.** The posters of Session 1 and Session 2 can be affixed starting from 8.00 and can stay on until 12.45. The posters with odd numbers will be presented in Session 1 (8.30-10.30); those with even numbers in Session 2 (10.45-12.45).

**Afternoon.** The posters of Session 3 and Session 4 can be affixed starting from 12.45 and can stay on until 17.15. The posters with odd numbers will be presented in Session 3 (13.00-15.00); those with even numbers in Session 4 (15.15-17.15).

We kindly ask each presenter to respect the time allotted for the presentation, in order to avoid overlapping with “board neighbours”.

## POSTER SESSION 1 – MOLO IV

08.30-10.30

### **3D VISION, DEPTH AND STEREO**

#### **1M. On the possible relativity of spatial-frequency-tuned stereoscopic processes underlying disparity threshold functions: A study of individual differences**

*David H. Peterzell, Josee Ewane Enongue, Ignacio Serrano-Pedraza, Jenny C.A. Read*

#### **3M. The contribution of the Magnocellular and Parvocellular pathways to stereoacuity**

*Ignacio Serrano-Pedraza, Juan José Herrera-Morueco, Isabel Salmerón-Aguirre, Marcos Bella-Fernández*

#### **5M. How to ensure the expected luminance and contrast without monocular cues in Random Dot Stereograms and Correlograms?**

*János Radó, Zoltán Sári, Gábor Jandó, Péter Buzás*

#### **7M. Representing relations between 3D locations in immersive virtual reality**

*Ellis Luise Gootjes-Dreesbach, Peter Scarfe, Andrew Glennerster*

#### **9M. Identifying neural substrates underlying the qualitative impression of monocular stereopsis: An EEG study**

*Makoto Uji, Ines Jentzsch, James Redburn, Dhanraj Vishwanath*

#### **11M. Digital or analogue? First assessment of a newly developed digital stereotest in adults and children with and without amblyopia**

*Juliane Tittes, Alexander Baldwin, Peggy Feige, Licia Cirina, Yaroslava Wenner, Claudia Kuhli-Hattenbach, Hanns Ackermann, Robert Hess, Thomas Kohlen, Maria Fronius*

#### **13M. Eye-height affects the perceived layout of interior space**

*Christoph Freiherr von Castell, Heiko Hecht, Daniel Oberfeld*

**15M. Can familiarity be a cue for perceiving depth?**

*Tadamasa Sawada, Elizaveta Mischenko, Ippei Negishi, Elena S. Gorbunova*

**17M. Short-term plasticity of 7T BOLD ocular dominance and spatial frequency representation in adult human primary visual cortex**

*Jan W. Kurzwaski, Paola Binda, Claudia Lunghi, Laura Biagi, Michela Tosetti, Maria Concetta Morrone*

**19M. Investigating biases in 3D perception and the effects of signal noise on depth discrimination**

*Jovan Kemp, Evan Cesanek, Fulvio Domini*

**21M. Shape from random gradient and contour combinations**

*Maarten Wijntjes, Robert Volcic*

**ADAPTATION**

**23M. Changes in eye movement strategies during a discrimination task in the presence of an artificial central scotoma**

*Paul Léné, Romain Fournet, Anne-Sophie Laurin, Frédéric Gosselin, Aarlenne Khan*

**25M. Visual adaptation and body parts: Transfer of adiposity aftereffects between bodies and hands**

*Klaudia Ambroziak, Elena Azañón, Marina Araujo, Matthew Longo*

**27M. Influence of spectral power distribution and photometry on contrast gain in mesopic illumination conditions**

*Eduardo G. Vicente, Beatriz M. Matesanz, Isabel Arranz, Miguel Rodríguez, Santiago Mar, Juan A. Aparicio, Pablo A. Barrionuevo*

**29M. Visual acuity monitoring in conditions of psychosocial isolation in a mock-up spacecraft**

*Svetlana Dmitrieva, Olga Manko, Alexander Smoleevskiy, Nadezhda Vasilyeva, Maria Gracheva*

**31M. Topographic numerosity maps dynamically adjust to the presented numerosity range**

*Yuxuan Cai, Jelle van Dijk, Wietske Zuiderbaan, Wietske van der Zwaag, Ben Harvey, Serge Dumoulin*

**33M. Face adaptation aftereffects on local information**

*Ronja Mueller, Sandra Utz, Claus-Christian Carbon, Tilo Strobach*

**35M. Co-circularity opponency in texture perception**

*Hiroshi Sato, Frederick Kingdom, Isamu Motoyoshi*

**37M. Color appearance during color adaptation after changing the lighting color**

*Shino Okuda, Katsunori Okajima*

## **AGING**

### **39M. Collinear facilitation: Effects of older age and temporal asynchrony**

*Yu Man (Janet) Chan, Cassandra J Brooks, Allison M McKendrick*

### **41M. What drives age effects on the speed accuracy trade-off during reaching?**

*Jutta Billino, Elena Hitzel, Constanze Hesse*

### **43M. What contributes to age effects on tactile suppression during reaching?**

*Lena Klever, Dimitris Voudouris, Katja Fiehler, Jutta Billino*

### **45M. Cognitive and anticipated properties of the moving object with age**

*Masaru Takeichi, Takeyuki Arai, Kinya Fujita*

## **APPLIED VISION**

### **47M. Analysis of indices of lie: Congruency between non-verbal and verbal behavior**

*Jessica Vascotto, Tiziano Agostini, Jasna Legiša*

### **49M. Does hangover affect visual attention and working memory?**

*Serena Mingolo, Mauro Murgia, Valter Prpic, Tiziano Agostini, Eleonora Bilotta*

### **51M. Different sound pitch effects on motor performance of individuals in head-mounted Virtual Reality**

*Anil Ufuk Batmaz, Michel de Mathelin, Birgitta Dresch-Langley*

### **53M. Investigating effects of color temperature on conflict handling behavior**

*Steffen Ronft, Tandra Ghose*

### **55M. Detecting uncertainty while assembling a camping tent**

*Brian Sullivan, Hazel Doughty, Walterio Mayol-Cuevas, Dima Damen, Casimir Ludwig, Iain Gilchrist*

### **57M. Perceptual and cognitive load in graph reading**

*Isabella Fuchs-Leitner, Lisa Falschlunger, Heimo Losbichler*

### **59M. A dynamic approach of searching behaviour in webpages**

*Alexandre Milisavljevic, Thomas Le Bras, Matei Mancas, Coralie Petermann, Bernard Gosselin, Karine Doré-Mazars*

### **61M. Does body dissatisfaction influence our ability to accurately identify distorted body images?**

*Nicole Thomas, Alessia Mattia, Elizabeth Matthews, Ellie Aniulis*

### **63M. The effect of screen orientation on depth perception and a comparison between Virtual Reality systems**

*Cyril Vienne, Vincent Honnet, Stéphane Masfrand, Christophe Bourdin, Jean-Louis Vercher*

### **65M. CAPTCHA using combined stereo vision and amodal completion**

*Toshiaki Yamanouchi, Kazuhisa Yanaka*

**67M. Experimental approach to motorcyclist detection by a car driver**

*Vincent Boucher, Fabrice Fournela, Romain Dronneau, Nicolas Basily, Mylène Besnier*

**ART**

**69M. What happens when you perceive a sun eclipse?**

*Claus-Christian Carbon*

**71M. Exploring artwork in situ: Empirical aesthetics making use of mobile eye tracking**

*Doga Gulhan, Johannes Zanker*

**73M. Historic Faces: An investigation of head and eye direction in art portraits across 1000 years of Western history**

*Tobias Matthias Schneider, Claus-Christian Carbon, Alexander (Sasha) Pastukhov*

**75M. Individual differences in aesthetic evaluations of visual arts (2): Does aesthetic dimension of value relate to the aesthetic evaluations of BAD arts?**

*Tatsuya Miyashita, Kiyoe Cho, Atsushi Kimura, Takashi Oka*

**77M. Subverting the naïve (mis)perception of animal intelligence: From the scala naturae to the Darwinian tree via a simple survey**

*Cinzia Chiandetti, Andrea Dissegna, Ryuta Nakajima, Graziano Fiorito*

**79M. Effects of context on aesthetic appraisal of curviness**

*Jelena Blanuša, Slobodan Markovic*

**81M. Is the unattractiveness of human body an inversion of its attractiveness?**

*Slobodan Markovic, Tara Bulut, Ljiljana Lazarevic*

**ATTENTION**

**83M. The reference frame for Inhibition of return is the full hemifield**

*Tatiana Malevich, Elena Rybina, Elizaveta Ivtushok, Liubov Ardasheva, W. Joseph MacInnes*

**85M. Mechanisms underlying the (re)alignment of covert and overt visual attention**

*Inga Korolczuk, George Houghton, Charles Leek*

**87M. Perceptual Set Within the "Attentional Blink"**

*Ivan Makarov, Elena Gorbunova*

**89M. Evidence for the existence of three regimes of number perception**

*Antonella Pomè, Giovanni Anobile, Aurora Scabia, Guido Marco Cicchini, David Charles Burr*

**91M. Quantifying the contribution of covert and overt spatial attention to perceptual decision-making**

*Samantha Parker, Andrew Heathcote, Matthew Finkbeiner*



**93M. Awe broadens attention**

*Muge Erol, Arien Mack*

**95M. Investigating neurophysiological correlates of joint action**

*Hossein Abbasi, Dominik Dötsch, Anna Schubö*

**97M. Letter spacing modulates lateralization of EEG alpha oscillations during natural reading**

*Béla Weiss, Ádám Nárai, Zoltán Vidnyánszky*

**99M. The effect of attention on the perceptual grouping**

*Chiahuei Tseng, Chien-Chung Chen, Satoshi Shioiri*

**101M. We cannot ignore a smile! - EEG correlates of the interaction between ambiguity and attention**

*Lukas Hecker, Joos Ellen, Giersch Anne, Tebartz van Elst Ludger, Kornmeier Jürgen*

**103M. Subjective time expansion with increased stimulation of intrinsically photosensitive retinal ganglion cells**

*Pei-Ling Yang, Sei-ichi Tsujimura, Akiko Matsumoto, Wakayo Yamashita, Su-Ling Yeh*

**105M. Do the eye-movement system and the arm-movement system contribute independently to attentional orienting: A TMS study**

*Soazig Casteau, Jacob Hathaway, Amanda Ellison, Daniel T. Smith*

**107M. Disassociation between Reaction Time and Pupil Dilation in the Stroop Task**

*Ronen Hershman, Avishai Henik*

**109M. Attentive tracking of moving objects whose depth in 3D gradually change**

*Anis Ur Rehman, Yuji Nosaki, Ken Kihara, Sakuichi Ohtsuka*

**111M. The Simon effect is modulated by effector-stimulus proximity and not by hand-stimulus proximity**

*Gioacchino Garofalo, Leonardo Longo, Lucia Riggio*

**113M. Conflict in the pupil: Luminance and cognitive based modulation**

*Suzon Ajasse, Jean Lorenceau*

**115M. Attention distractibility trait associations with self-reported attention deficit and with variation in KTN1 gene**

*Iiris Tuvi, Jaanus Harro, Evelyn Kiive, Talis Bachmann*

**117M. Metacognition of precision and latency during spatial orienting of attention**

*Samuel Recht, Vincent de Gardelle, Pascal Mamassian*

**119M. Bilateral field presentation modulates subitizing**

*Chiara Tagliabue, Veronica Mazza*

**121M. Context-specific habituation of attentional capture**

*Francesca Bonetti, Massimo Turatto*

**123M. When modality matters: Inhibition of return in and after a visual search**

*Margit Höfler, Katrin Liebergesell, Iain D. Gilchrist, Christof Körner*

**125M. A functional magnetic resonance imaging study of bodily efference signal in searching self-controlled moving object**

*Qiaobo Qu, Kazuma Horita, Takako Yoshida*

**127M. Selective Impact of tRNS on Resting State Functional Connectivity after visual-attention training**

*Federica Contò, Grace Edwards, Lorella Battelli*

**129M. To the edge of gaze and beyond: Visual attention is not limited by the oculomotor range**

*Nina M. Hanning, Martin Szinte, Heiner Deubel*

**131M. Persistent attentional salience of reward cues despite reward devaluation and incentive learning**

*Matteo De Tommaso, Massimo Turatto*

**133M. Working memory capacity as a predictor of contralateral delay activity and strategy use in multiple object tracking: An ERP Analysis**

*Gurmukh Panesar, Anne Richards*

**135M. Feature-based attention modulates fMRI BOLD response in areas MT and V4**

*Robert Hess, Benjamin Thompson, Alex Baldwin, Simon Clavagnier*

**137M. Thin and plus-size models differentially modulate attentional asymmetries**

*Ellie Aniulis, Nicole Thomas*

**139M. Spatial attention with Rescorla's 'truly random control'**

*Alexey Asvarishch, Joseph MacInnes*

**141M. The visual saliency of emotional objects**

*Michał Kunięcki, Kinga Woloszyn, Krzysztof Waniak, Joanna Pilarczyk*

**143M. Modulation of top-down attention in the human face-processing network: An MEG study**

*Daniel Baldauf, Eelke de Vries*

**145M. Attentional rhythms across space**

*Peijun Yuan, Yi Jiang, Ying Wang*

**147M. Does depth of field attract attention?**

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**238M. Tell me what you are searching for, and I will tell you what you probably will see**

*Mohsen Rafiei, Andrey Chetverikov, Sabrina Hansmann-Roth, David Whitney, Árni Kristjánsson*

**LEARNING**

**240M. Adult cortical plasticity peaks after every meal**

*Cecilia Steinwurz, Silvia Animal, Paola Binda, Maria Concetta Morrone*

**242M. Novel 3D objects to study recognition and temporal context**

*Ehsan Kakaei, Stepan Aleshin, Jochen Braun*

**244M. Searching for meaning: Using pseudoword cues to investigate the formation of new object-word-connections in Virtual Reality**

*Lisa Voelker, Dejan Draschkow, Melissa L.-H. Vo*

**246M. Reversal task learning as a tool to comparatively study cognition in birds in quantitative ways**

*Sofija Perovic, Sara Letzner, Lukas Hahn, Aylin Klarer, Jonas Rose, Onur Güntürkün*

**248M. Avian hatching as a strategy to test context-specific habituation**

*Andrea Dissegna, Massimo Turatto, Cinzia Chiandetti*

**250M. Can task irrelevant statistical structure enhance perceptual learning?**

*Gabor Lengyel, Jozsef Fiser*

**252M. Learning the complex is easier than learning the simple**

*Kyoko Hine, Haruka Konno, Yoshiaki Tsushima*

## **MAGNITUDE, TIME AND NUMEROSITY**

### **254M. Monotonic responses to numerosity in early visual cortex**

*Jacob Paul, Tuomas ten Cate, Ben Harvey*

### **256M. A SNARC-like effect for the perceived size of both physical and illusory figures**

*Valter Prpic, Mauro Murgia, Alessandro Soranzo, Tiziano Agostini*

### **258M. Spatial but not temporal numerosity thresholds correlate with formal math skills in children**

*Paula Moscoso, Giovanni Anobile, Roberto Arrighi, Elisa Castaldi, Eleonora Grassi, Lara Pedonese, David Charles Burr*

### **260M. Measuring the numerosity perceptual field**

*Irene Togoli, Giovanni Anobile, Nicola Domenici, David Burr, Roberto Arrighi*

### **262M. Local and global contextual effects on duration reproduction**

*Filip Agatić, Chris Mathys, Domenica Buetti*

### **264M. Distortions of perceived duration of visual stimuli induced by adaptation to tapping movements**

*Roberto Arrighi, Nicola Domenici, Giovanni Anobile, Irene Togoli, David Burr*

### **266M. Magnitude affects temporal processing in sub-second but not in supra-second time-scale**

*Anuj Shukla, Rakesh Sengupta, Raju S Bapi*

**BREAK**

**12.45-13.00**

**POSTER SESSION 3 – MOLO IV**

**13.00-15.00**

## **ILLUSIONS**

### **1A. Unravelling the illusion of flicker fusion**

*Diana Umeton, Ghaith Tarawneh, Jenny Read, Candy Rowe*

### **3A. The apparent elongation of a disk by its rotation as haptic phenomenon**

*Akira Imai, Yves Rossetti, Patrice Revol*

### **5A. Motion illusion in a specific direction caused by blinking of color LED pairs**

*Kazuhisa Yanaka, Aoto Kurihara, Toshiaki Yamanouchi*

### **7A. Depth cue is necessary for the greenback illusion**

*Kempei Shiina*

### **9A. The solitaire illusion generalises to large numerosities and brief presentation, but not to grouping based only on proximity**

*Marco Bertamini, Martin Guest, Michele Zito*



**11A. About specific and general factors for visual illusions**

*Aline F. Cretenoud, Lukasz Grzeczowski, Gregory Francis, Michael H. Herzog*

**13A. Individual differences in expectation based misperception: Effects of autistic traits in a neurotypical sample**

*Kadi Tulver, Jaan Aru, Talis Bachmann*

**15A. Relationship between amodal completion and the slimming effect of clothes**

*Yoshie Kiritani, Akane Kawasaki, Ikjoon Chang*

**17A. Developmental susceptibility to visuospatial illusions across vision and haptics**

*Corinne Holmes, Sarah Cooney, Fiona Newell*

**19A. Once again about the origin of the McCollough effect**

*Manana Khomeriki, David Janelidze, Natela Lomashvili, Guram Mikaberidze, Khatuna Rusadze, Reniko Sakandelidze, Archil Kezeli*

**21A. The effect of inhibition mechanisms on susceptibility to the Ponzo illusion**

*Hanna Bednarek, Magdalena Przedniczek, Justyna Olszewska, Jaroslaw Orzechowski*

**23A. Pupillometry obeys Emmert's law, which co-varies with autistic traits in typical adults**

*Chiara Tortelli, Marco Turi, David C. Burr, Paola Binda*

**25A. Verbal and motor responses to the Müller-Lyer and Ponzo illusions**

*Alla Cherniavskaia, Valeria Karpinskaia, Vsevolod Lyakhovetskii*

**27A. The size of circles affect flash-induced shape distortion illusion**

*Kenzo Sakurai*

**29A. Café-Wall like tilt illusion observed in alternately arranged sinusoidal gradation color gratings**

*Masanori Idesawa*

**31A. Effects of type and spatial arrangement of elements on apparent sliding motion**

*Nobuko Takahashi, Shinji Yukumatsu*

**33A. Brocken's phenomenon arising in night fogs on flat ground**

*Likio Sugano*

**35A. Illusory size reduction of elements with expansion of the entire arrangement**

*Taiichro Uechi, Makoto Ichikawa*

**37A. Measuring the Ebbinghaus illusion in children and adults with two different psychophysical methods**

*Daniele Zavagno, Silvia Calanchi, Rossana Actis-Grosso, Olga Daneyko*

**39A. An apparent-motion color illusion**

*Rob van Lier*

**41A. Interactions across luminance, contrast and orientation defined elements in the Ebbinghaus illusion**

*Sofia Lavrenteva, Ikuya Murakami*

**43A. A visual saltation illusion with subjective contours**

*Hiroyuki Ito*

**45A. Perception of visual illusions is intact in schizophrenia**

*Maya Roinishvili, Lukasz Grzeczkowski, Albulena Shaqiri, Mariam Okruashvili, Eka Chkonia, Andreas Brand, Fred W. Mast, Michael H. Herzog*

**47A. New adapting stimuli in investigation of the McCollough effect**

*Elena Yakimova*

**49A. Increase amount of brightness in comparison of brightness**

*Teluhiko Hilano*

**LIGHTNESS AND BRIGHTNESS**

**51A. Lightness contrast and assimilation: The interaction of central and peripheral factors**

*Predrag Nedimović, Sunčica Zdravković*

**53A. Behavioural and ERP responses to lightness contrast and assimilation**

*Naira Taroyan, Stephanie Acaster, Alessandro Soranzo, John Reidy*

**55A. The effect of TMS intensity on contrast sensitivity**

*Danielle Parrott, Seth M. Levine, Jens Schwarzbach, Lorella Battelli*

**57A. Occipital lobe involvement in visual-evoked pupil responses**

*Marnix Naber, Alessio Fracasso, Giorgio Porro, Joeri van Helden, Carlien Roelofzen, Douwe Bergsma, Mies van Genderen, Serge Dumoulin*

**59A. An upward surface appears darker: An effect of the light-from-above prior on lightness perception**

*Yuki Kobayashi, Kazunori Morikawa*

**61A. Perception of translucency in sea paintings**

*Cristina Spoiala, Huib de Ridder, Maarten Wijntjes*

**63A. Contrast manipulation to alter translucency perception of lemons in 17th century paintings**

*Francesca Di Cicco, Maarten Wijntjes, Sylvia Pont*

**65A. Material cues from the past: Experimentally testing a historical description of material rendering**

*Mitchell van Zuijlen, Francesca Di Cicco, Sylvia Pont, Maarten Wijntjes*

**67A. Task-dependent and flexible mean brightness judgment for achromatic ensembles**

*Eiji Kimura, Yusuke Takano, Mayu Sekizuka*

**69A. Understanding the reduction in Michelson contrast for the perception of transparency**

*Minjung Kim, Guillermo Aguilar, Marianne Maertens*

**71A. Estimating perceived transparency using conjoint measurement**

*Guillermo Aguilar, Minjung Kim, Marianne Maertens*

## **MOTION**

### **73A. The motion aftereffect without motion: how adaptation to non-directional flicker creates a directional aftereffect in the motion system**

*Mark Georgeson, George Mather, Robert Lee*

### **75A. Neural mechanisms underlying short- and long-term forms of plasticity probed with a motion-adaptation paradigm**

*Sibel Akyuz, Andrea Pavan, Hulusi Kafaligonul*

### **77A. Dissecting long-range motion**

*Marlene Poncet, Justin Ales*

### **79A. Pattern motion responses in rat visual cortex**

*Giulio Matteucci, Rosilari Bellacosa Marotti, Benedetta Zattera, Davide Zoccolan*

### **81A. Visualising the illusory moving spot in apparent motion**

*William Simpson*

### **83A. The neural mechanisms underlying high-frequency transcranial random noise stimulation: An EEG investigation**

*Filippo Ghin, Louise O'Hare, Andrea Pavan*

### **85A. Motion and form: Are interactions real or simply reflecting underlying motion mechanisms?**

*Linda Bowns*

### **87A. Investigating the relationship between different optic flow parsing metrics**

*Lucy Evans, Rebecca A. Champion, Simon K. Rushton, Paul A. Warren*

### **89A. A motion sensing computational model for the inhibitory mechanism between coarse and fine scales reproduces the observed speed tuning function**

*Raúl Luna del Valle, Ignacio Serrano-Pedraza*

### **91A. The effect of semantic meaning on speed**

*Luca Battaglini, Giovanna Mioni*

### **93A. Psychophysical dissecting central from peripheral vision**

*Anna Kozak, Michal Wieteska, Kalina Burnat-Kuijpers*

### **95A. Optic flow parsing in schizophrenia**

*Paul Warren, Alvaro Cavieres*

### **97A. Temporal process of vection occurrence: Experimental phenomenological analysis of verbal reports**

*Hidemi Komatsu, Kayoko Murata, Takeharu Seno*

### **99A. The influence of color change on judgments of motion direction**

*Tadayuki Tayama, Kei Shiratori*

**101A. Effect of inter-stimulus interval on the reduction in vection latency caused by pre-presented motion stimuli**

*Jing Ni, Hiroyuki Ito, Masaki Ogawa*

**103A. Contributions of intuitive physics and visual impressions of launching to causal reports**

*Michele Vicovaro*

**105A. When perception from two eyes is slower than from one eye: Reduced surround suppression in monocular motion perception**

*Sandra Arranz-Paraiso, Jenny C.A. Read, Ignacio Serrano-Pedraza*

**107A. Michotte's effect in praying mantis (*Hierodula membranacea*)**

*Federica Dal Cin, Massimo De Agrò, Lucia Regolin, Enzo Moretto*

**109A. The anti-barberpole illusion on the slanted surface**

*Hiroshi Ashida, Mika Hattori*

**111A. Event-related brain potentials (ERP) during peripheral and central visual field stimulation generating self-motion (vection)**

*Behrang Keshavarz, Stefan Berti*

**113A. The temporal characteristics of attentive tracking with dichoptic stimulation**

*Hidetoshi Kanaya, Marie Morita, Takao Sato*

**115A. Speed overestimation in chasing events**

*Giulia Parovel, Stefano Guidi*

**117A. The effect of translational directions in 3D real space on vection**

*Kayoko Murata, Yoshitake Fujii, Kousuke Tokunaga, Takeharu Seno*

## **MULTISENSORY**

**119A. A common mechanism processes auditory and visual motion**

*David Alais, Uxía Fernández Folgueiras, Johahn Leung*

**121A. The role of vision in the integration of allocentric information while moving through space**

*Luigi F. Cuturi, Giulia Cappagli, Paolo Alborn, Gualtiero Volpe, Elena Cocchi, Monica Gori*

**123A. Visual and haptic cue integration for multisensory grasping**

*Robert Volcic, Ivan Camponogara*

**125A. Judgments of visual and somatic inclination: Evidence against the visual capture**

*Atsuki Higashiyama, Tadashi Yamazaki*

**127A. The risk-assessment of threatening stimuli is more accurate**

*Achille Pasqualotto, Achille Pasqualotto, Magda L. Dumitru*

**129A. Bimodal integration - The interplay between perception & working memory in n-back performance**

*Gregor Hardiess, Niclas Renner, Hanspeter A. Mallot*

**131A. Attentional engagement for synchronous audiovisual signals**

*Hanne Huygelier, Armien Lanssens, Johan Wagemans, Raymond van Ee, Céline R. Gillebert*

**133A. Broad audio-visual integration is associated with poorer reading skills in typical readers**

*Marco Turi, Paola Fruscoloni, David Charles Burr*

**135A. Perceived simultaneity of audio-visual events depends on the relative stimulus intensity:  
A model**

*Ryan Horsfall, Sophie Wuerger, Georg Meyer*

**137A. Action-induced BOLD modulation of sensory cortices in a multisensory distance reproduction task**

*Milosz Krala, Bianca van Kemenade, Frank Bremmer*

**139A. Visual size perception and haptic calibration after late emergence from blindness**

*Hafsah Ahmad, Monica Gori, Alessia Tonelli, Muhammad Nabeel Anwar, Giulio Sandini*

**141A. The flexible use of internal predictions and on-line feedback depends on the availability of multisensory information during action planning and execution**

*Ivan Camponogara, Robert Volcic*

**143A. Effect of color on audiovisual integration**

*Sung-En Chien, Yi-Chuan Chen, Akiko Matsumoto, Wakayo Yamashita, Kuang-Tsu Shih, Sei-ichi Tsujimura, Su-Ling Yeh*

**145A. fMRI activities in the visual cortex by olfactory stimulations**

*Yoshiaki Tsushima, Yurie Nishino, Hiroshi Ando*

**147A. Do odors influence color perception thresholds?**

*Mark Greenlee, Marija Soldo, Laura Albrecht, Wilhelm Malloni, Mirko Galardi, Tina Plank, Maria Michela Del Viva*

**149A. Prior experience of stimulus co-occurrence increases sensitivity to visual temporal asynchrony**

*Helga Reguly, Márton Nagy, Benjámín Márkus, József Fiser*

**151A. Shape to sound correspondences in natural languages**

*Kuntal Ghosh, Keerthi S. Chandran, Swati Banerjee*

**153A. Effects of sensory modality and spatial characteristics of value-related cues on visual sensitivity**

*Roman Vakhrushev, Arezoo Pooresmaeili*

**155A. On the other hand: Examining whether recognition and action affect multi-sensory representation of the mirrored bodily self**

*Alan O'Dowd, Fiona N. Newell*

**157A. Audiovisual interactions in emotion perception for communication**

*Minke de Boer, Deniz Baskent, Frans Cornelissen*

**159A. Effect of uncertainty in audio-visual cross-modal statistical learning**

*Márton Nagy, Helga Reguly, Benjámín Márkus, József Fiser*

**161A. Causal relationship attracts timings of two events given to different modalities**

*Hiroyuki Umemura*

**163A. Haptic perception of softness is influenced by memory**

*Anna Metzger, Knut Drewing*

**165A. The effect of pre-period design in multisensory RT experiments**

*Cleopatra Pike, Thomas Otto*

**167A. The visually-evoked auditory response and sensory excitability: A new internet survey**

*Elliot Freeman*

**169A. Effects of the direction of hand motion and the perspective cue on proprioceptive drift**

*Hiroaki Shigemasa, Uki Uchida*

**171A. Recalibration of audio–visual simultaneity judgment depends upon awareness of temporal lag**

*Masaki Tsujita, Makoto Ichikawa*

**173A. Comparison of olfactory threshold and sensory evaluation among three color conditions**

*Akihisa Takemura*

**175A. Integration of visual, proprioceptive and vestibular information during distance perception in the personal space**

*Tijana Todić Jakšić, Oliver Tošković*

**177A. So small no matter how far – Anisotropy of perceived size**

*Oliver Tošković*

## **MEMORY**

**179A. The influence of both visual working memory and visual salience on pre- and post-awareness?**

*Yun Ding, Chris Paffen, Marnix Naber, Stefan Van der Stigchel*

**181A. Fast-backward replay of sequentially memorized items in humans**

*Qiaoli Huang, Jianrong Jia, Qiming Han, Huan Luo*

**183A. Reward boosts visual working memory precision as a function of age**

*Annamária Manga, Pál Vakli, Petra Kovács, Zoltán Vidnyánszky*

**185A. Involuntarily attentional biases by visual working memory: Target-distractor similarity of search-irrelevant features matters**

*Rebecca M. Foerster, Werner X. Schneider*

**187A. Using your hands, which numbers did you see? Empirical evidence on short-term memory processing of bilingual German Sign Language speakers compared to bilingual American Sign Language speakers**

*Gediminas Schueppenhauer, Katarzyna Stoltmann*

**189A. Categorical distinction of real objects and location binding are separate sources of interference in visual working memory**

*Yuri Markov, Igor Utochkin*

**191A. Episodic like memory in newborn chicks (*Gallus gallus*)**

*Maria Loconsole, Elena Mascalzoni, Jonathan N. Daisley, Massimo De Agrò, Giorgio Vallortigara, Lucia Regolin*

**193A. Neuro-enhancement of visual working memory storage and manipulation via Transcranial-Direct Current Stimulation**

*Hrag Pailian, Emiliano Santarnecchi, Alvaro Pascual-Leone, George Alvarez*

**195A. A novel approach to study memory skills in blind individuals: The audio Virtual Reality**

*Walter Setti, Isaac Engel, Luigi Cuturi, Monica Gori, Lorenzo Picinali*

**197A. Delayed perceptual matching of features and VSTM load**

*Michael Pilling, Doug Barrett*

**199A. Memorization and visualization in the visual cortex and beyond**

*Lora Likova, Christopher Tyler*

**201A. From icons to categories: The format of visual memory representations is task dependent**

*Beatrix Keweloh, Sven Ohl, Martin Rolfs*

**203A. The influence of expertise on continuous categories: A whole report study of colour expertise**

*Jonas Olsen Dall, Thomas Alrik Sørensen*

**205A. Experience-based knowledge enhances accuracy of metacognition in patients with schizophrenia**

*Ewelina Cichoń, Remigiusz Szczepanowski*

## **OBJECT PERCEPTION**

**207A. Evidence for amodal completion of low-level detail in visual cortex**

*Jordy Thielen, Sander Bosch, Tessa van Leeuwen, Marcel van Gerven, Rob van Lier*

**209A. Mechanisms of medieval visual vocabulary in polychrome sculpture**

*Joshua Harvey, Hannah Smithson*

**211A. No holistic processing of objects in brain regions that process faces holistically, despite an identical behavioural effect**

*Celia Foster, Mintao Zhao, Andreas Bartels, Isabelle Bühlhoff*

**213A. Semantic processing in scenes and sentences: Investigating shared neural patterns using MVPA**

*Dejan Draschkow, Edvard Heikel, Melissa L.-H. Vo, Christian Fiebach, Jona Sassenhagen*

**215A. Nature-themed puzzles and the aesthetic-aha**

*Susanne Röder, Wolfgang Trapp, Claus-Christian Carbon*

**217A. Violation of shape constancy in Mona Lisa effect**

*Takao Sato*

**219A. The influence of perceived size on object correspondence in the Ternus display**

*Madeleine Stepper, Elisabeth Hein*

**221A. The representation of object hardness in the brain**

*Li Guo, Susan Courtney, Jason Fischer*

**223A. The size distance invariance hypothesis and binocular size perception**

*Juhun Kim, Joowon Park, Sumin Heo, Nam-Gyoon Kim*

**225A. The effect of stimulation time on contour integration**

*Ling Wang, Yichang Du, Feiyun Huang*

**OBJECT RECOGNITION**

**227A. Investigating viewpoint dependence in object recognition using depth rotated 3D models in a sequential matching task**

*Aylin Kallmayer, Dejan Draschkow, Melissa L.-H. Vo*

**229A. The impact of semantical relations on template activation**

*Saliha Reinecke, Dejan Draschkow, Sage E. P. Boettcher, Melissa L.-H. Vo*

**231A. Categorization task with blurred pictures: An ERP study**

*Quentin Lenoble, Sébastien Szaffarczyk, Yannick Wamain*

**233A. Does font influence letter recognition?**

*Aleksandra Dobrego, Svetlana Alexeeva, Alena Konina*

**235A. Decoding the order of visual operations**

*Jessica Loke, Noor Seijdel, H. Steven Scholte*

**237A. Task predictability determines knowledge acquisition during object recognition**

*Cecile Gal, Moca Vasile V., Tincas Ioana, Gliga Teodora, Smith Marie, Muresan Raul*

**239A. Further evidence for rapid feedback in contour perception**

*Jan Drewes, Weina Zhu*

**241A. Why can we detect the tilt more easily for symmetric objects than asymmetric ones ?**

*Takashi Ueda, Takashi Yasuda, Kenpei Shiina*

**243A. Emergence of a hierarchical structure in the neural representation of visual objects in the rat**

*Eis Annavini, Mattia D'Andola, Davide Zoccolan*



## **PERIPHERAL VISION**

### **245A. Encoding perceptual ensembles during visual search in peripheral vision**

*Daglar Tanrikulu, Andrey Chetverikov, Árni Kristjánsson*

### **247A. Auditory cue suppresses visual detection in extreme-periphery**

*Takashi Suegami, Daw-An Wu, Mark Changizi, Shinsuke Shimojo*

### **249A. Local diascleral light stimulation of the peripheral retina: Influence on colour perception in the foveal area**

*Alexander Belokopytov, Svetlana Rychkova, Galina Rozhkova, Maria Gracheva*

### **251A. Local diascleral light stimulation of the peripheral retina: Influence on contrast sensitivity in the foveal area**

*Maria Gracheva, Svetlana Rychkova, Galina Rozhkova*

### **253A. Local diascleral stimulation of the peripheral retina: Influence on pupillary responses**

*Svetlana Rychkova, Maria Gracheva*

### **255A. Inhibition of Return at the visual field periphery**

*Gleb Laskov, Polina Krivykh, Galina Menshikova*

### **257A. Peripheral vision loss affects the processing of spatial frequency in the central vision of people with glaucoma**

*Audrey Trouilloud, Alexia Roux-Sibilon, Foriane Rutgé, Louise Kauffmann, Arnaud Attyé, Christophe Chiquet, Florent Aptel, Carole Peyrin*

### **259A. A new approach to investigate peripheral vision: Contact lens with opaque central part**

*Galina Rozhkova, Olga Selina, Petr Nikolaev, Alexander Belokopytov*

### **261A. Scale-invariance for radial frequency patterns in peripheral vision**

*Anna Zolubak, Gunnar Schmidtman, Luis Garcia-Suarez*

### **263A. Compression and expansion effects for the perception of dot textures in the peripheral vision**

*Masahiko Terao, Fuminori Ono*

### **265A. Crowding and the central-peripheral dichotomy in top-down feedback for analysis-by-synthesis in object recognition**

*Li Zhaoping*

## **POSTER SESSION 4 – MOLO IV**

**15.15-17.15**

## **PERCEPTION AND ACTION**

### **2A. A kind of magic: The impact of motor expertise on pantomimed grasps' discrimination**

*Davide Quarona, Atesh Koul, Caterina Ansuini, Luca Pascolini, Andrea Cavallo, Cristina Becchio*

### **4A. Visuomotor adaptation is influenced by perceived depth**

*Carlo Campagnoli, Jordan A. Taylor*

**6A. Effects of shooting performance on the estimated size of a basketball hoop**

*Carl Granrud, Tristan Lyle, Pearl Marquez, Alana Reed, Emma Rogers*

**8A. Asymmetric effect of distractor graspable objects on successive actual grasps**

*Veronica Pisu, Stefano Uccelli, Lucia Riggio, Nicola Bruno*

**10A. Enhancement of vection by optical flow with multiple colors**

*Yasuhiro Seya, Keiko Shiozaki, Hiroyuki Shinoda*

**12A. A dorsal illusion affects perception and action in the same way**

*Cristina de la Malla, Eli Brenner, Edward H.F. de Haan, Jeroen B.J. Smeets*

**14A. Investigating the interaction between emotion perception and postural control: Effects of stimuli properties and individual characteristics**

*Angélique Lebert, Laurence Chaby, Chloé Garnot, Dorine Vergilino-Perez*

**16A. An active/multi-passive viewing advantage in Immersive Virtual Environments**

*Marta Stragà, Sara Rigutti, Marco Jez, Giulio Badassi, Andrea Carnaghi, Piero Miceu, Carlo Fantoni*

**18A. Neural correlates of visual grasp selection**

*Lina K. Klein, Guido Maiello, Daria Proklova, Juan Chen, Vivian C. Paulun, Jody C. Culham, Roland W. Fleming*

**20A. Body sway induced by oscillatory optic flow in Virtual Reality**

*David Engel, Adrian Schütz, Milosz Krala, Frank Bremmer*

**22A. Perceptual judgements of plaid motions biased by active movements**

*Giulia Sedda, Vittorio Sanguineti, Silvio Paolo Sabatini*

**24A. Saccadic adaptation alters object size perception**

*Alexandra Pressigout, Celine Paeye, Lara Kech, Karine Dore-Mazars*

**26A. Impaired sensory-motor learning in newly sighted children**

*Sophia Pfister, Irene Senna, Dennis Wiebusch, Marc O. Ernst*

**28A. Should priming, prime discrimination, and prime visibility be measured on the same trial?**

**Loss of double dissociations under triple-task conditions**

*Thomas Schmidt, Melanie Biafora*

**30A. Allocentric information influences memory-guided and online reaching movements**

*Zijian Lu, Katja Fiehler*

**32A. Investigating the role of vection for quiet standing in a moving room paradigm with sinusoidally expanding and contracting visual stimuli**

*Kentaro Horiuchi, Masami Ishihara, Kuniyasu Imanaka*

**34A. Automatic imitation tendencies in whole body movement with balance constraints**

*Tara Radovic*

**36A. Characterizing brain areas activated during well-learned versus newly learned visuomotor associations using fMRI**

*Elizabeth Saccone, Sheila Crewther, Melvyn Goodale, Philippe Chouinard*

- 38A. Sense of agency in joint driving: The collaboration produces good performance**  
*Sachiyo Ueda, Taku Maruoka, Atsushi Sato, Shoji Itakura, Michiteru Kitazai*
- 40A. Synesthetic interference in writing letters**  
*Seiji Oshiro, Hiroki Yamamoto, Jun Saiki*
- 42A. Tracking attention in space and time around saccadic eye movements**  
*David Acunzo, Katya Gordienko, David Melcher*
- 44A. Effect of speed variability on smooth pursuit eye movement and speed perception**  
*Kiana Mansour Pour, Laurent Perrinet, Anna Montagnini, Guillaume S. Masson*
- 46A. Kinematic properties of chopstick manipulation when grasping sushi**  
*Akira Hasegawa, Takao Fukui*
- 48A. The effect of a priori size on different reach-to-grasp movements**  
*Justin Plantier, Anne-Emmanuelle Priot, Cyril Vienne*
- 50A. Effect of reward value on auditory perception - An EEG study**  
*Felicia Pei-Hsin Cheng, Arezoo Pooresmaeili*
- 52A. Intent perception of human and non-human agent during ball throwing task in Virtual Reality**  
*Jindrich Kodl, Andrea Christensen, Tjeerd M.H. Dijkstra, Martin A. Giese*
- 54A. The phase of intrinsic gamma oscillations permit visual encoding**  
*Emoke B.Ipkovich, Miha Medved, Jennifer Csatlos, Viktor Voros, Eszter Kormann, Szilvia Linnert, Zoltan Nadasdy*
- 56A. Learning and combining novel perceptual cues**  
*Stacey Aston, Sophie Barnes, Ulrik Beierholm, Marko Nardini*
- 58A. Motion silencing during natural movement**  
*Simon Rushton, Laurence Harris, Geoffrey Mégardon, Phoebe Asquith*
- 60A. Action-induced compression in the perceived time of visual events**  
*Inci Ayhan, Duygu Ozbagci*
- 62A. Perception of agent properties in humans and machines**  
*Erik Lagerstedt, Serge Thill*
- 64A. Reviewing evidence for superior visual processing without awareness**  
*Sascha Meyen, Zerweck Iris, Amado Catarina, Ulrike von Luxburg, Franz Volker*
- 66A. Evaluating methods in visual tasks: Confidence ratings convey more information than binary responses**  
*Iris Zerweck, Sascha Meyen, Florian Friedrich, Klara Grethen, Volker H. Franz*
- 68A. Acoustic noise of a ship cabin affects Heart Rate Variability**  
*Martina Lorenzino, Flavia D'Agostin, Giulia Scarinzi, Sara Rigutti, Luigi Bregant, Massimo Bovenzi, Carlo Fantoni*

**70A. Control re-investment in the execution of a simple sensorimotor task**

*Valeria Gershkovich, Nadezhda Moroshkina, Almara Kulieva*

**PERCEPTUAL ORGANISATION**

**72A. Perception of an ambiguous motion display is not shaped by perceptual relevance in an auxiliary task**

*Charlotte Boeykens, Pieter Moors, Johan Wagemans*

**74A. The rapid segmentation of multiple objects is based on global rather than local sampling**

*Vladislav Khvostov, Igor Utochkin, Yulia Stakina*

**76A. Induced perceptual organization in ordered dot-lattices: The effect of an inclined line**

*Arefe Sarami, Reza Afhami*

**78A. Grouping and 'objecthood' effects in the Ebbinghaus illusion**

*Einat Rashal, Aline F. Cretenoud, Michael H. Herzog*

**80A. A Prägnanz framework of perception**

*Eline Van Geert, Johan Wagemans*

**82A. Ventral stream hierarchy underlying perceptual organization in adolescents with autism**

*Laurie-Anne Sapey-Triomphe, Boets Bart, Lien Van Eylen, Ilse Noens, Maarten Demeyer, Stefan Sunaert, Jean Steyaert, Johan Wagemans*

**84A. The event related potential (ERP) time course of adaptation to contours and textures**

*Damien Wright, Jasna Martinovic, Elena Gheorghiu*

**86A. Perceptual organization of hierarchical patterns: Grouping local elements into a global configuration requires visual consciousness**

*Shahar Sabary, Dina Devyatko, Ruth Kimchi*

**88A. Comparing the perception of rectangular and parallel contours**

*Ekaterina Koshmanova, Tadamasa Sawada*

**90A. Fast periodic visual stimulation electroencephalography as a measure for perceptual discrimination and categorization**

*Jaana Van Overwalle, Charlotte Buhre, Stephanie Van der Donck, Sander Van de Cruys, Bart Boets, Johan Wagemans*

**92A. The adaptation aftereffect of mean size precedes size-distance rescaling**

*Natalia Tiurina, Yuri Markov, Jennifer Corbett, Igor Utochkin*

**94A. Re-evaluating hMT+ and hV4 functional connectivity using fMRI-guided rTMS**

*Kathy Mullen, Daniel B. Cohen*

**96A. Does spatial uncertainty affect perception of ensemble statistics?**

*Vasilii Marshev, Andrey Chetverikov, Maria Kuvaldina*

## **RESEARCH METHODS**

### **98A. Water consumption estimation in adults and children: an innovative experimental approach**

*Ilaria Santoro, Sandra Pellizzoni, Tiziano Agostini*

### **100A. The theoretic-scientific evolution of the Milan and Trieste Psychology Schools**

*Walter Coppola, Savina Raynaud, Serena Cattaruzza*

### **102A. What does affect serial dependence in visual perception?**

*Debora Stendardi, Martina Lorenzino, Rosita Liperoti, Ilaria Colpizzi, Joseph Austerweil, Corrado Caudek*

### **104A. Post-hoc trial sorting revisited: Comparing the statistical outcomes of repeated-measures ANOVA and linear mixed models (LMMs) in unbalanced data sets**

*Guido Hesselmann*

### **106A. Psychophysics Toolbox for Virtual Reality (ptvr)**

*Aman Mathur, Rupak Majumdar, Tandra Ghose*

### **108A. Steady-state visual evoked potentials in oculocutaneous albinism**

*Diána Fülöp, Eszter Mikó-Baráth, Vanda Nemes, János Radó, Gábor Jandó*

### **110A. Searchlight back-projection - A tool for analyzing neural signatures in visual space**

*Susanne Stoll, Elisa Infanti, D. Samuel Schwarzkopf*

### **112A. May the power be with you: Pilot data based simulations for estimating power in mixed models**

*Leah Kumle, Dejan Draschkow, Melissa L.-H. Vo*

### **114A. Optimizing the number of visual presentations for time-resolved decoding studies**

*David Tovar, Tijl Grootswagers, Amanda Robinson, Mark Wallace, Thomas Carlson*

### **116A. Add-on gamification might help to increase participants' motivation, but not evidently their performance in a visual color-matching task**

*Marius Raab, Burmester Antonie, Carbon Claus-Christian, Pastukhov Alexander*

### **118A. Evaluating linear systems theory for sub-millimetre laminar fMRI**

*Jelle van Dijk, Alessio Fracasso, Natalia Petridou, Serge Dumoulin*

### **120A. Gender differences in interpersonal distances during interactions with avatars**

*Tatiana Popova, Galina Menshikova, Olga Tikhomandritskaya*

### **122A. Quantifying how surface properties trade off in object selection**

*Ana Radonjic, David Brainard*

### **124A. Neural and behavioral modulations induced by transcranial electrical stimulations to the occipital cortex: Do they really modulate neural activities?**

*Yuko Yotsumoto, Zhiwei Fan, Shogo Katsui, Keishi Nomura, Shuhei Shima*

## **SCENE PERCEPTION**

### **126A. Magic circle**

*Andrea van Doorn, Jan Koenderink, Johan Wagemans*

### **128A. Semantic scene statistics using a novel computational method**

*Dylan Rose, Peter Bex*

### **130A. The gist of a mammogram predicts future development of cancer**

*Karla Evans, Jeremy Wolfe*

### **132A. Spatial frequency tuning for scene categorization: The role of scene type and categorization level**

*Sandro Wiesmann, Verena Willenbockel, Frédéric Gosselin, Melissa L.-H. Vo*

### **134A. Restorative effects of nature (images): The role of visual processing**

*Claudia Menzel, Gerhard Reese*

### **136A. Measuring boundary extension in the central area of images**

*Jiri Lukavsky, Vojtech Klinger, Filip Dechterenko*

### **138A. Predicting scene perception in patients with cerebral blindness**

*Anna Geuzebroek, A.V. Van den Berg*

### **140A. Does low- and mid-level visual information allow for conceptual analysis in an ultra-rapid serial visual presentation task? An extended replication.**

*Lynn K.A. Sørensen, Dorina De Jong, Heleen A. Slagter, H. Steven Scholte*

### **142A. Visual memory for fragmented scenes**

*Filip Dechterenko, Katerina Koppova, Jiri Lukavsky*

### **144A. The influence of top-down contextual predictions on the processing of low contrast feedforward input**

*Gemma Donnelly, Johanna Bergmann, Matthew Bennett, Lucy Petro, Lars Muckli*

### **146A. The influence of visual long term memory on eye movements during scene viewing**

*Lisa Schwetlick, Hans A. Trukenbrod, Ralf Engbert*

### **148A. Temporal processing of scene gist between central and peripheral vision with a 180° visual field**

*Clement Beugnet, Sebastien Szaffarczyk, Muriel Boucart*

### **150A. The preferred physical size of moving images varied with viewing distance but not with screen size**

*Masamitsu Harasawa, Yasuhito Sawahata, Yamato Miyashita, Kazuteru Komine, Satoshi Shioiri*

### **152A. Density discrimination in 3D clutter: Are we up-front about it?**

*Milena Scaccia, Michael Langer*

## **SPATIAL VISION**

### **154A. Quadratic mapping function in space perception**

*Toshio Watanabe*

### **156A. Lateral inhibition linked to perceptual filling-in of sinusoidal annulus**

*Yih-Shiuan Lin, Chien-Chung Chen, Mark W. Greenlee*

### **158A. The effect of body orientation on the acquisition of cognitive mapping**

*Galina Menshikova, Elena Natura*

### **160A. Interpersonal distance in field-theoretical terms**

*Robin Welsch, von Castell Christoph, Hecht Heiko*

### **162A. Influence of time in representing different regions of space**

*Elena Aggius-Vella, Claudio Campus, Monica Gori*

### **164A. Fine scale measurements of the blind spot borders**

*Annegret Meermeier, Markus Lappe, Michele Rucci*

### **166A. Features of gamma oscillation evoked by spatial summation in mouse primary visual cortex**

*Ke Chen, Yi-Lei Zhao, Zhao-Hao Su, Xiao-Hua Liang*

### **168A. Differential interocular suppression with increments and decrements**

*Akash Chima, Monika Formankiewicz, Sarah Waugh*

### **170A. Mesopic contrast thresholds at four parafoveal locations**

*Joao Lourenco, Stephanie Mroczkowska, Luis Suarez*

### **172A. Two mechanisms of discrimination of spatial phase**

*Endel Pöder*

### **174A. Different property by the axis direction crossing diagonally each other in gaze perceptual space**

*Masaki Mori, Toshio Watanabe*

### **176A. Mental rotation of simulated haptic representations**

*Ruxandra Tivadar, Tom Rouillard, Cédrick Chappaz, Jean-François Knebel, Nora Turoman, Fatima Anafloous, Jean Roche, Micah Murray*

## **SURFACE AND TEXTURE**

### **178A. Adaptive comparison matrix for psychological scaling**

*Isamu Motoyoshi, Saya Kashiwakura*

### **180A. Modulating luminance and color saturation disambiguates mirror and glass**

*Hideki Tamura, Eugen Prokott, Roland Fleming*

**182A. Estimating perceived viscosity of liquids with neural networks**

*Jan Jaap R. van Assen, Shin'ya Nishida, Roland W. Fleming*

**184A. Image cues for glossiness perception obtained from low luminance specular reflection components**

*Hiroaki Kiyokawa, Tomonori Tashiro, Yasuki Yamauchi, Takehiro Nagai*

**186A. Effect of glossiness on the impression evaluation of paint color**

*Kentaro Inomata, Go Fujii, Noriko Nagata, Ayumi Ohkushi, Toshitaka Koyama*

**188A. Using neural networks to distinguish gloss from matte textured materials**

*Eugen Prokott, Hideki Tamura, Roland Fleming*

**190A. Robustness of the texture filling-out induced by masking of the stimulus contour**

*Shuichiro Taya*

**192A. Aspects of material softness in active touch**

*Dicle Dovencioglu, Katja Doerschner, Knut Drewing*

**194A. Eye movements to orientation defined texture: The effect of pattern configuration**

*Shumetha Sidhu, David Keeble*

**196A. Estimates of surface friction are primarily driven by linear motion**

*Robert Ennis, Katja Doerschner*

**TEMPORAL PROCESSING**

**198A. How do "duration selective" brain regions communicate?**

*Foteini Protopapa, Masamichi Hayashi, Domenica Bueti*

**200A. Spatiotemporal feature integration within discrete time windows provides evidence for discrete perception**

*Leila Drissi-Daoudi, Adrien Doerig, Michael H. Herzog*

**202A. Low frequency repetitive transcranial magnetic stimulation to right parietal cortex disrupts perception of briefly presented stimuli**

*Christina Howard, Hayley Boulton, Stacey A. Bedwell, Charlotte A. Boatman, Kate L. Roberts, Suvabrata Mitra*

**204A. Endogeneous attention enhances the temporal resolution of the visual processing at different stages**

*Makoto Ichikawa*

**206A. Population receptive field (pRF) mapping reveals topographical organisation of durations**

*Shrikanth Kulashekhar, Foteini Protopapa, Domenica Bueti*

**208A. When a visual event is perceived depends on how we attend to its temporal context**

*Ljubica Jovanovic, Pascal Mamassian*



**210A. The retinotopic representation of time in visual cortex**

*Gianfranco Fortunato, Tatiana Kénel-Pierre, Micah Murray, Domenica Bueti*

**212A. Time-based expectancy for tasks or for visual task cues?**

*Irina Monno, Stefanie Aufschneiter, Sonja Ehret, Andrea Kiesel, Roland Tomaschke*

**214A. Contrast gain control in glaucoma at photopic and mesopic light levels**

*Catarina A.R. João, Lorenzo Scanferla, Nomdo M. Jansonius*

**216A. Viewing emotional facial expressions enhances temporal resolution of the visual processing**

*Misa Kobayashi, Makoto Ichikawa*

**218A. Sensorimotor synchronization and temporal order judgements reveal saccadic temporal recalibration**

*Dunia Giomo, Brent Parsons, Domenica Bueti*

**220A. tDCS over dorsolateral prefrontal cortex modulates time perception of emotional pictures**

*Leonardo Gomes Bernardino, Evandro Ribeiro Gonçalves Neto, Felipe Santos de Oliveira, Rui de Moraes Jr*

**222A. Changes in brain oscillation frequency subserve temporal processing at attended visual locations**

*Poppy Sharp, Clayton Hickey, David Melcher*

**224A. Bias in temporal perception during aerobic exercises**

*Alessia Tonelli, Monica Gori*

**226A. Neural entrainment tracks the temporal structure of visual rhythms**

*Ruichen Hu, Xue Zhang, Yi Jiang, Ying Wang*

**228A. The encoding of time in visual cortices**

*Andrea Solmi, Domenica Bueti*

**230A. Beyond hazard rate: Response time reflects proactive preparation for future events**

*Muzhi Wang, Hang Zhang*

**232A. Multisensory duration reproduction in the supra-second range**

*Didem Alashan, Resit Canbeyli, Inci Ayhan*

**VISUAL SEARCH**

**234A. Attention and search tasks in children with dyslexia**

*Khatuna Parkosadze, Tamar Tatishvili, Nino Lomidze, Marina Kunchulia*

**236A. Individual differences in exploring 3D virtual space**

*Sören Eckhard, Aman Mathur, Rupak Majumdar, Tandra Ghose*

**238A. All beginnings are difficult: Repeated search through Virtual Reality Environments**

*Dario Stänicke, Dejan Draschkow, Melissa L.H. Vo*

**240A. Color and orientation precueing exert asymmetrical effects on color and orientation conjunction search**

*Aave Hannus, Harold Bekkering, Frans W. Cornelissen*

**242A. Relevance affects repeated visual search**

*Sebastian A. Bauch, Christof Körner, Iain D. Gilchrist, Margit Höfler*

**244A. Probability and task relevance modulate fixation-related potentials in visual search with eye movements**

*Hannah Hiebel, Anja Ischebeck, Clemens Brunner, Andrey R. Nikolaev, Margit Höfler, Christof Körner*

**246A. Searching beats memorizing in creating memory representations for objects in realistic virtual environments**

*Jason Helbing, Dejan Draschkow, Melissa L.-H. Vo*

**248A. A simple model for short-term memory effects in repeated visual search**

*Christof Körner, Margit Höfler, Iain D. Gilchrist*

**250A. Human fixations on line drawings of natural scenes**

*Kaifu Yang, Wenwen Jiang, Yongjie Li*

**252A. One item in visual working memory is an attentional template, but two are not: A successful replication of Van Moorselaar et al. (2014)**

*Marcela Frătescu, Dirk Van Moorselaar, Sebastiaan Mathôt*

**254A. Multiplicity of attention guidance by long-term memory of visual search arrays: Insights from event-related EEG lateralizations**

*Artyom Zinchenko, Markus Conci, Thomas Töllner, Hermann Müller, Thomas Geyer*

**256A. Proactive control mechanisms for distractor expectation in visual search**

*Marco Petilli, Francesco Marini, Roberta Daini*

**258A. The specificity of the search template revisited: Evidence from human foraging**

*Tómas Kristjánsson, Katrín Justyna Alexdóttir, Árni Kristjánsson*

**260A. Multiple identity tracking: Unexpected item onset and attentional load**

*Michaela Porubanova, Maria Kuvaldina, Erica Geiger, Haaziq Walker, Almara Kulieva*

**262A. Abnormal visual search among population with mathematical learning difficulties**

*Sharon Levy, Liat Goldfarb*

**ILLUSION EXHIBITION “UN MARE DI ILLUSIONI” – MOLO IV**

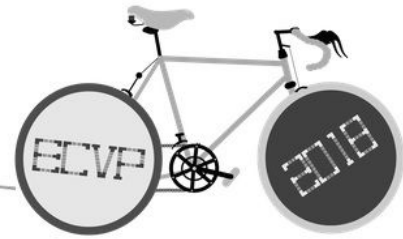
**19.30-20.30**

**CONFERENCE PARTY – MOLO IV**

**20.30-00.00**

# 41st European Conference on Visual Perception ECVP 2018

26–30 August 2018 | Trieste, Italy



## WEDNESDAY, August 29<sup>th</sup> 2018

WEDNESDAY 29th		Venue	Sessions			
8:00	8:30	Registration				
8:30	9:00	Talks & Symposia 3	Perception & Action I <i>Auditorium</i>	fMRI responses to adaptation of visual magnitudes <i>Hall 1A</i>	Neuromodulation and cortical plasticity in the visual cortex: local and network effects <i>Hall 1B</i>	Lightness & Brightness, Surface & Texture <i>Hall 2B</i>
9:00	9:30					
9:30	10:00		Coffee break			
10:00	10:30	Talks & Symposia 4	Perception & Action II <i>Auditorium</i>	The influence of secondary/corrective saccades on motor, visual, and cognitive processing <i>Hall 1A</i>	Seeing things with different eyes: Comparative visual perception <i>Hall 1B</i>	Rhythms for perception: how neural oscillations determine our perceptual interpretation <i>Hall 2B</i>
10:30	11:00					
11:00	11:30					
11:30	12:00	Lunch				
12:00	12:30					
12:30	13:00					
13:00	13:30	Talks & Symposia 5	ECVP 1978-2018 – “Now we are 40” <i>Auditorium</i>	Perceiving others, interacting with them: new perspectives in action observation research <i>Hall 1A</i>	Faces <i>Hall 1B</i>	Clinical <i>Hall 2B</i>
13:30	14:00					
14:00	14:30					
14:30	15:00	Talks & Symposia 6	What individual differences teach us about vision: going beyond simple correlation <i>Auditorium</i>	Visual control of action in complex sensorimotor situations <i>Hall 1A</i>	Perceptual Organisation & Spatial Vision <i>Hall 1B</i>	Clinical & Development <i>Hall 2B</i>
15:00	15:30					
15:30	16:00		Coffee break			
16:00	16:30	Talks & Symposia 7	What are eye blinks good for? Perceptual, oculomotor, and cognitive effects of eye blinks <i>Auditorium</i>	Colour <i>Hall 1A</i>	Motion & Biological motion <i>Hall 1B</i>	Numerical vision <i>Hall 2B</i>
16:30	17:00					
17:00	17:30					
17:30	17:45	Break				
17:45	18:00					
18:00	18:30					
18:30	19:00	Gala Dinner				
19:00	19:15					
19:15	19:30					
19:30	20:00	Gala Dinner				
20:00	20:30					
20:30	23:00					
23:00	00:00	Gala Dinner	Savoia Excelsior Palace			

# WEDNESDAY, August 29<sup>th</sup> 2018

**TALK SESSION – UNIVERSITY CAMPUS, AUDITORIUM (BUILDING H3)**

**8.30-10.00**

## **PERCEPTION AND ACTION I**

### **Weber's Law in 2D grasping**

*Tzvi Ganel, Aviad Ozana, Daniel Algom*

### **Grasping in depth shows the same biases as depth perception**

*Karl Kopiske, Chiara Bozzacchi, Robert Volcic, Fulvio Domini*

### **Grasping the Uznadze illusion: Hand shaping is driven by relative size as well as stimulus similarity**

*Stefano Uccelli, Veronica Pisu, Lucia Riggio, Gioacchino Garofalo, Nicola Bruno*

### **Uncertainty in coordinate transformations affects obstacle avoidance**

*Parisa Abedi Khoozani, Dimitris Voudouris, Gunnar Blohm, Katja Fiehler*

### **How do we deal with accelerating objects despite our visual system's dismal ability to judge acceleration?**

*Eli Brenner, Cristina de la Malla, Patricia García Delgado, Jeroen B.J. Smeets*

### **A single response mechanism accounts for spatial and temporal responses in a timing task**

*Joan Lopez-Moliner, Elisabet Tubau, David Aguilar-Lleyda*

**SYMPOSIUM – UNIVERSITY CAMPUS, HALL 1A (BUILDING H3)**

**8.30-10.00**

## **fMRI RESPONSES TO ADAPTATION OF VISUAL MAGNITUDES**

Organized by *Domenica Bueti*

### **Mapping time in the human brain**

*Domenica Bueti*

### **Interactions between time, number and action in human parietal cortex**

*Maria Concetta Morrone*

### **Neural population code in the right parietal cortex mediates subjective experience of time**

*Masamichi Hayashi*

### **Does numerosity adaptation exist without duration adaptation?**

*Andromachi Tsouli, Susan F. te Pas, Serge O. Dumoulin, Maarten J. van der Smagt*

### **Spatiotopic adaptation in visual areas**

*Eckart Zimmermann*

**NEUROMODULATION AND CORTICAL PLASTICITY IN THE VISUAL CORTEX: LOCAL AND NETWORK EFFECTS**

Organized by Grace Edwards, Federica Contò

**Mapping the effects of transient cortical disruption across the brain: Combining thetaburst TMS and fMRI**

*David Pitcher*

**Transcranial random noise stimulation: Neural mechanisms and applications in vision research**

*Gianluca Campana, Rebecca Camilleri, Filippo Ghin, Beatrice Moret, Rita Donato, Chiara Milesi, Giuseppe Lo Giudice, Andrea Pavan*

**Time-dependent neuromodulation of large-scale attention networks**

*Lorella Battelli, Sara Agosta, Florian Herpich, Federica Contò, Grace Edwards, Sarah Tyler, Emily Grossman*

**Differential effects of single and accelerated low-frequency rTMS to visual cortex on GABA concentration**

*Jennifer Steeves, Sara Rafique*

**Neuromodulation of visual cortical neurons by Transcranial Current Stimulation**

*Bart Krekelberg, Yinghua Liu, Jacob Duijnhouwer, Pierre-Olivier Polack*

**LIGHTNESS AND BRIGHTNESS & SURFACE AND TEXTURE**

**Integrating color, contours, shading and texture: when does co-variation matter?**

*Steven Zucker, Benjamin Kunsberg*

**A role for metallicity in the perception of surface reflectance**

*Matteo Toscani, Dar'ya Guarnera, Giuseppe Claudio Guarnera, Jon Yngve Hardeberg, Karl Gegenfurtner*

**The pupillary light response reflects high-priority content in visual working memory**

*Cecilia Husta, Sebastiaan Mathôt*

**Changes in relative area produce equal and opposite effects on lightness and perceived illumination**

*Alessandro Soranzo, Alan Gilchrist*

**The contribution of the pictorial cues underlying the Adelson Illusion**

*Paul George Lovell, Kenneth Scott-Brown*

**Edge integration theory explains the lightness of real surfaces viewed under Gelb illumination**

*Michael Rudd*

**COFFEE BREAK – UNIVERSITY CAMPUS, CAFETERIA**

**10.00-10.30**

**ORAL SESSION – UNIVERSITY CAMPUS, AUDITORIUM (BUILDING H3)**

**10.30-12.00**

**PERCEPTION AND ACTION II**

**Never alone: Group belongingness as a determinant of the Emotional Semantic Congruency effect**

*Giulio Baldassi, Sara Rigutti, Marta Stragà, Tiziano Agostini, Andrea Carnaghi, Carlo Fantoni*

**The neural correlates of adult and infant action syntax**

*Laura Maffongelli, Alessandro D'Ausilio, Luciano Fadiga, Moritz M. Daum*

**Neural tracking of self and other during joint movement synchronization**

*Manuel Varlet, Sylvie Nozaradan, Patti Nijhuis, Peter E. Keller*

**A common cause for the phenomenological and sensorimotor correlates of limb ownership**

*Cesare Parise, Majed Samad, Sean Keller, Massimiliano Di Luca*

**Action-based predictions lead to reduced neural processing of visual stimuli regardless of temporal predictability**

*Bianca van Kemenade, Christina Lubinus, Tilo Kircher, Benjamin Straube*

**Sight restoration in congenitally blind individuals: Visuo-motor adaptation**

*Irene Senna, Sophia Pfister, Marc Ernst*

**SYMPOSIUM – UNIVERSITY CAMPUS, HALL 1A (BUILDING H3)**

**10.30-12.00**

**THE INFLUENCE OF SECONDARY/CORRECTIVE SACCADDES ON MOTOR, VISUAL, AND COGNITIVE PROCESSING**

Organized by Brent Parsons

**Execution of corrective saccades affects speed perception**

*Karl Gegenfurtner, Alexander Göttker, Doris Braun, Alexander Schütz*

**Synchrony of eyes and figure-ground perception**

*Hans Supèr*

**Secondary saccades beyond error correction**

*Sven Ohl*

**Object files across eye movements: Previous fixations affect the latencies of corrective saccades**

*Stefan Van der Stigchel, Jasper Fabius, Nathan van der Stoep, Martijn Schut*

**Rapid alternating saccades reveal biases in secondary saccade programming**

*Brent Parsons, Richard Ivry*

**SEEING THINGS WITH DIFFERENT EYES: COMPARATIVE VISUAL PERCEPTION**

Organized by Cinzia Chiandetti

**Visual and biomechanical functions for headbobbing in birds**

*Niko Troje, Leslie Theunissen*

**Visual statistical learning in honeybees**

*Aurore Avargues-Weber, Valerie Finke, Marton Nagy, Tunde Szabo, Adrian Dyer, Jozsef Fiser*

**Complex visual analysis of socially relevant displays in teleosts**

*Peter Neri*

**Does attention-calling alter the perception of social interactions? A comparison of dogs and wolves**

*Zsófia Virányi*

**Can I talk to a squid? The origin of visual communication through the behavioral ecology of cephalopod**

*Ryuta Nakajima*

**RHYTHMS FOR PERCEPTION: HOW NEURAL OSCILLATIONS DETERMINE OUR PERCEPTUAL INTERPRETATION**

Organized by David Melcher, Luca Ronconi

**Rhythms in perception: Action planning and behavioral oscillations**

*Alessandro Benedetto, Maria Concetta Morrone*

**Neuronal oscillation mediates behavioral oscillation in visual attention**

*Huan Luo*

**Shaping brain waves: An information-based approach**

*Vincenzo Romei*

**Temporal windows in perception and their link with neural oscillations**

*Luca Ronconi, Nikolaas Oosterhof, Niko Busch, Claudia Bonmassar, Daniel Baldauf, David Melcher*

**Alpha frequency shapes temporal integration and is guided by top-down control**

*Jason Samaha, Andreas Wutz, David Melcher, Bradley Postle*

**Neural oscillations as time metrics**

*Virginie van Wassenhove*

***ECVP 1978-2018 – “NOW WE ARE 40”***

Organized by Brian Rogers

**The lost realms of stimulus space**

*John D. Mollon*

**Stereoscopic Vision: from positional disparities to global analysis**

*Barbara Gillam*

**From gratings to Gestalts: Some reflections from 40 years of ECVP**

*Johan Wagemans*

**From Gabor patches to natural scenes**

*Peter Neri*

**From one to many: Looking at perception across modalities**

*Lore Thaler*

**From gratings to goop: New directions and approaches in visual perception research**

*Roland Fleming*

***PERCEIVING OTHERS, INTERACTING WITH THEM: NEW PERSPECTIVES IN ACTION OBSERVATION RESEARCH***

Organized by Caterina Ansuini, Antonella Maselli

**Imitation in autism: Exploring the impact of attention instructions during action observation**

*Emma Gowen*

**Contextual effects in perceiving other's actions: A transcranial magnetic stimulation approach**

*Lucia Amoruso*

**Developmental mechanisms for action prediction: From infants to adults**

*Janny Stapel, Sabine Hunnius, Benjamin Koch, Marlene Meyer, Harold Bekkering*

**The role of visual information during joint action**

*Cordula Vesper*

**Sensorimotor communication strategies for Improving interactive skills**

*Francesco Donnarumma*



**FACES****How discriminable are visually expressed attitudes?**

*Chris Davis, Jeesun Kim*

**Orientation sensitivity at different levels of face processing**

*Christianne Jacobs, Charlotte Raskopf, Vincent Malotau, Kirsten Petras, Valerie Goffaux*

**Fixed or flexible? Orientation preference in identity and gaze processing in humans**

*Valerie Goffaux, Vasilopoulou Maria*

**The sampling rate of face processing as measured by the face distortion illusion**

*David Melcher, Giacomo Aldegheri, Chad Dubé*

**Adaptation to other people's eye gaze reflects habituation of high-level perceptual representations**

*Colin Palmer, Colin Clifford*

**Eye gaze and pointing gestures are precise social cues**

*Ailbhe McKinney, James Gillen, Nuala Brady*

**CLINICAL****Action blindsight and antipointing in a hemianopic patient**

*Edward de Haan, Steven Scholte, Anouk Smits, Noor Seijdel, Robert Kientz*

**Resting-state fMRI reveals functional networks that correlate with visual training effects in chronic hemianopia**

*Hinke Halbertsma, Joris A. Elshout, Douwe P. Bergsma, Frans W. Cornelissen, Koen V. Haak, Albert V. van den Berg*

**Observation of intermittent exotropia treatment with dichoptic visual training based on Virtual Reality platform**

*Jin Zeng, Xue Li, Cheng Yang, Yan Zhang, Li Yan*

**Screening for and reconstructing visual field defects based on free-viewing eye-movements**

*Birte Gestefeld, Alessandro Grillini, Jan-Bernard C. Marsman, Frans W. Cornelissen*

**Visual plasticity in Retinitis Pigmentosa**

*Claudia Lunghi, Lucia Galli Resta, Paola Binda, Guido Marco Cicchini, Giorgio Placidi, Benedetto Falsini, Maria Concetta Morrone*

**Priors for the detection of socially meaningful stimuli as perceptual markers for psychosis proneness**

*Philipp Sterzer, Heiner Stuke, Elisabeth Kress, Veith Andreas Weinhhammer, Katharina Schmack*

**COFFEE BREAK – UNIVERSITY CAMPUS, CAFETERIA**

**15.30-16.00**

**SYMPOSIUM – UNIVERSITY CAMPUS, AUDITORIUM (BUILDING H3)**

**16.00-17.30**

**WHAT INDIVIDUAL DIFFERENCES TEACH US ABOUT VISION: GOING BEYOND SIMPLE CORRELATION**

Organized by Pieter Moors, Michael H. Herzog

**Introduction**

*Pieter Moors*

**From human variability to visual mechanisms: Some uses and abuses of factor analytic methods in vision science**

*David Peterzell*

**Decoding perceptual representations from individual differences**

*Kara J. Emery, Vicki J. Volbrecht, David H. Peterzell, Michael A. Webster*

**Using individual differences to infer visual mechanisms**

*Jenny Bosten, John Mollon*

**Large-scale individual differences in visual appearance and their dynamics over time and space**

*Mark Wexler*

**Order-constrained inference to study individual differences in perceptual organization**

*Pieter Moors, Johan Wagemans*

**The individual structure of visual space**

*Michael H. Herzog, Aline F. Cretenoud, Gregory Francis, Albulena Shaqiri, Lukasz Grzeczowski*

**SYMPOSIUM – UNIVERSITY CAMPUS, HALL 1A (BUILDING H3)**

**16.00-17.30**

**VISUAL CONTROL OF ACTION IN COMPLEX SENSORIMOTOR SITUATIONS**

Organized by Dimitris Voudouris

**Eye movements in grasping**

*Dimitris Voudouris, Jeroen B.J. Smeets, Katja Fiehler, Eli Brenner*

**The contribution of visual information to upper limb movements in older adults**

*Rachel Coats*

**Gaze Control for Natural Action**

*Mary Hayhoe, Jonathan Matthis*

**Gaze adaptations to peripheral visual field loss during locomotion**

*Colas Authié*

**Understanding vision and action through computation**

*Constantin Rothkopf*

**PERCEPTUAL ORGANIZATION & SPATIAL VISION****Coarse image information guides integration of fine details (if you let it)**

*Kirsten Petras, Christianne Jacobs, Sanne ten Oever, Valerie Goffaux*

**Behavioral oscillations in global/local processing: Global-alpha mediates global precedence effect**

*Ling Liu, Huan Luo*

**Does the processing of closure need the primary visual cortex: A tDCS study**

*Weina Zhu, Weixiong Li, Jan Drewes*

**Gestalts at threshold: a comparison of basic emergent features**

*Thiago Leiros Costa, Pieter Moors, Johan Wagemans*

**Detecting simultaneity following late sight onset in congenital cataract blinds**

*Tapan Gandhi, Piyush Swami, Shefali Gupta, Pawan Sinha*

**Never repeat the same trick twice - unless it is based on amodal completion**

*Vebjørn Ekroll, Evy De Bruyckere, Lotte Vanwezemael, Johan Wagemans*

**CLINICAL & DEVELOPMENT****Noisier but still flexible: Typical numerosity adaptation despite selectively impaired number acuity in dyscalculia**

*Giovanni Anobile, Filippo Gasperini, Guido Marco Cicchini, David Burr*

**Synesthesia and autism spectrum disorder: Shared characteristics of visual perception**

*Tessa M van Leeuwen, Floor Burghoorn, Rob van Lier*

**Atypical Basic Psychophysics in autism: Violation of Weber's law in vision and haptic**

*Bat-Sheva Hadad*

**Poor global motion coherence sensitivity and attention deficits in children with perinatal brain injury, preterm birth or developmental coordination disorder: common dorsal stream deficits?**

*Janette Atkinson, Fleur Corbett, Eliza Fazzi, Serena Micheletti, Daniella Ricci, Giorgia Coratti, Morag Andrew, Peter Sullivan, Christine Montague-Johnson, Oliver Braddick*

**The development of visuo-haptic exploration strategies in school-aged children**

*Alessandra Sciutti, Clara Melchiori, Giada Lombardi, Giulio Sandini*

**"Stuck on the duck" - Gradual morphing presentation slows down perceptual decision making in preschoolers**

*Elisabeth Stöttinger, Beate Priewasser*

**BREAK**

**17.30-17.45**

**SYMPOSIUM – UNIVERSITY CAMPUS, AUDITORIUM (BUILDING H3)**

**17.45-19.15**

**WHAT ARE EYE BLINKS GOOD FOR? PERCEPTUAL, OCULOMOTOR, AND COGNITIVE EFFECTS OF EYE BLINKS**

Organized by Gerrit Maus

**Eye blinks, perception and prediction**

*Tal Golan, Shany Grossman, Ido Davidesco, Meir Meshulam, David M. Groppe, Pierre Mégevand, Erin M. Yeagle, Matthew S. Goldfinger, Michal Harel, Lucia Melloni, Charles E. Schroeder, Ashesh D. Mehta, Leon Y. Deouell, Rafael Malach*

**Visual continuity and alterations in time perception during blinks**

*Marianne Duyck, Thérèse Collins, Mark Wexler*

**Blinks reset gaze control and attention**

*Gerrit Maus*

**Saliency and surprise revealed by spontaneous eye-blinks**

*Yoram Bonne*

**Cognitive and social functions of spontaneous blinks**

*Tamami Nakano*

**TALK SESSION – UNIVERSITY CAMPUS, HALL 1A (BUILDING H3)**

**17.45-19.15**

**COLOUR**

**A curious feature of thresholds for discriminating colorimetric purity**

*Marina Danilova, John D. Mollon*

**Colour synthesis**

*Jan Koenderink, Andrea van Doorn, Karl Gegenfurtner*

**A model of how memory colors effect arises in a recurrent neural network**

*Dražen Domijan, Mateja Marić*

**Color scission versus spatial integration for real lights on real 3D objects**

*Qasim Zaidi, Romain Bachy*

**What are the mechanisms behind colour adaptation and afterimages?**

*Christoph Witzel, Alexander Nowak*

**Luminance spatial distribution plays a major role in color assimilation**

*Xim Cerda-Company, Xavier Otazu, Nilai Sallent, C. Alejandro Parraga*

**MOTION & BIOLOGICAL MOTION**

**How well can we judge speed across different directions?**

*Oliver Braddick, Rory Trevelyan-Thomas, Catherine Manning*

**Current visual information and Newtonian prediction is utilised in the perception of colliding objects**

*Abdul Deeb, Evan Cesanek, Fulvio Domini*

**Extracting self-motion and 3-D depth information from 2-D video sequences using the properties of primate motion sensitive neurons**

*John Perrone, Michael Cree*

**Who's chasing whom?: Changing background motion reverses impressions of chasing in perceived animacy**

*Benjamin van Buren, Brian Scholl*

**Temporal dynamics of the networks for body motion processing at 9.4 Tesla**

*Marina Pavlova, Michael Erb, Gisela Hagberg, Alexander Sokolov, Andreas Fallgatter, Klaus Scheffler*

**The relative role of visual self-motion feedback and biological sex identification on the sense of self**

*Michael Barnett-Cowan, Aubrieann Schettler, Ian Holstead, John Turri*

**NUMERICAL VISION**

Organized by Ben Harvey

**Spontaneous perception of numerosity in children and adults**

*David Burr, Guido Marco Cicchini, Giovanni Anobile*

**Dynamics of numerosity representation in the early visual cortex**

*Michele Fornaciai, Joonkoo Park*

**Topographic quantity processing networks in human association cortex**

*Ben Harvey, Serge Dumoulin*

**The time course of individuation and its role in numerical and visual cognition**

*Andreas Wutz, David Melcher*

**Brain mechanisms of arithmetic: A crucial role for ventral temporal cortex**

*Pedro Pinheiro-Chagas, Amy Daitch, Josef Parvizi, Stanislas Dehaene*

# 41st European Conference on Visual Perception ECVP 2018

26–30 August 2018 | Trieste, Italy



## THURSDAY, August 30<sup>th</sup> 2018

		THURSDAY 30th	Venue	Sessions			
8:00	8:30	Registration	University campus				
8:30	9:00	Talks & Symposia 8		European Symposium on Perception and Action in Sport <i>Auditorium</i>	3D Vision: what is the state of the art? <i>Hall 1A</i>	Eye Movements <i>Hall 1B</i>	Research methods & Computational models <i>Hall 2B</i>
9:00	9:30						
9:30	10:00			Coffee break			
10:00	10:30	Talks & Symposia 9		European Symposium on Perception and Action in Sport <i>Auditorium</i>	3D Vision: what is the state of the art? <i>Hall 1A</i>	Eye Movements & Peripheral Vision <i>Hall 1B</i>	Illusions & Object Perception <i>Hall 2B</i>
10:30	11:00						
11:00	11:30						
11:30	12:00	Lunch		Business meeting <i>Auditorium</i>			
12:00	12:30						
12:30	13:00						
13:00	13:30						
13:30	14:00	Talks & Symposia 10		European Symposium on Perception and Action in Sport <i>Auditorium</i>	Perceptual structures – A Festschrift for Michael Kubovy <i>Hall 1A</i>	3D vision, Depth and Stereo <i>Hall 1B</i>	Ensemble perception is more than averages <i>Hall 2B</i>
14:00	14:30						
14:30	15:00						
15:00	15:30	Coffee break					
15:30	16:00	Talks & Symposia 11		European Symposium on Perception and Action in Sport <i>Auditorium</i>	Perceptual structures – A Festschrift for Michael Kubovy <i>Hall 1A</i>	Deep neural networks: the new benchmark model of visual object recognition <i>Hall 1B</i>	Crowding <i>Hall 2B</i>
16:00	16:30						
16:30	17:00						
17:00	17:30	Break					
17:30	17:45						
17:45	18:00						
18:00	18:30	Talks & Symposia 12	European Symposium on Perception and Action in Sport <i>Auditorium</i>	Art & Scene Perception <i>Hall 1A</i>	Visual Search & Bistable Perception <i>Hall 1B</i>	Multisensory & Decision making <i>Hall 2B</i>	
18:30	19:00						
19:00	19:15						

# THURSDAY, August 30<sup>th</sup> 2018

**SPECIAL SYMPOSIUM – UNIVERSITY CAMPUS, AUDITORIUM (BUILDING H3)**

**8.30-10.00**

## **EUROPEAN SYMPOSIUM ON PERCEPTION AND ACTION IN SPORT**

Organized by Mauro Murgia, Tiziano Agostini, Fabrizio Sors, Alessandra Galmonte

### **Symposium introduction: linking perception and sport**

*Mauro Murgia*

### **Virtual Reality Technology: How can it help us understand decision-making in sport?**

*Cathy Craig*

### **Eye tracking challenges when capturing visual perception in sports situations**

*José Antonio Navia Manzano*

**SYMPOSIUM – UNIVERSITY CAMPUS, HALL 1A (BUILDING H3)**

**8.30-10.00**

## **3D VISION: WHAT IS THE STATE OF THE ART?**

Organized by Fulvio Domini, Dhanraj Vishwanath

### **Introductory remarks**

*Dhanraj Vishwanath, Fulvio Domini*

### **The nature of depth cues**

*Barbara Gillam*

### **Context dependency in 3D shape perception**

*James Todd*

### **Quadratic rescaling of multiple depth cues to a world metric for effective action**

*Christopher Tyler*

### **The need for fresh thinking on cortical processing for 3D vision**

*Andrew Glennerster*

### **How are 2D and stereoscopic 3D information encoded together in primary visual cortex?**

*Jenny Read, Sid Henriksen, Daniel Butts, Bruce Cumming*

### **To understand 3D vision, we must study how vision is learnt**

*Roland Fleming*

### **3D vision and action**

*Thomas Papathomas, Elizabeth Torres, Michael Wagner*

### **Understanding the perception of vast spaces**

*Jeanine Stefanucci, Roberta Klatzky, William Thompson*

## **Towards a 3D visual reasoning challenge for machine vision**

*Thomas Serre*

## **An early experimental investigation of central and peripheral vision by Ibn al-Haytham (Alhazen)**

*Gül A. Russell, M.I. Russell, Ian I. Steele-Russell*

### **TALK SESSION – UNIVERSITY CAMPUS, HALL 1B (BUILDING H3)**

**8.30-10.00**

#### **EYE MOVEMENTS**

##### **Eye meant to do that: Transsaccadic perception depends on intended eye-movements**

*Martijn Schut, Nathan Van der Stoep, Jasper Fabius, Stefan Van der Stigchel*

##### **Accessing transsaccadic memory by post-saccadic blanking**

*Lukasz Grzeczowski, Jonathan van Leeuwen, Artem V. Belopolsky, Heiner Deubel*

##### **Sequence-to-sequence deep learning for eye movement classification**

*Mikhail Startsev, Ioannis Agtzidis, Michael Dorr*

##### **Where am eye looking? Subjective gaze moves across space before saccade onset**

*Meng Fei Ngan, Nina Hanning, Heiner Deubel*

##### **Distribution of fixations during natural reading with central field loss**

*Éric Castet, Aurélie Calabrèse, Carlos Aguilar, Céline Pocheau*

##### **Systematic eye movement training to predict the outcome from neuroimaging data at the initial stage of stroke treatment**

*Abdulrahman Aloufi, Vanessa Sluming, Fiona Rowe, Georg Meyer*

### **TALK SESSION – UNIVERSITY CAMPUS, HALL 2B (BUILDING H3)**

**8.30-10.00**

#### **RESEARCH METHODS & COMPUTATIONAL MODELS**

##### **Absorption efficiency of cones is considerably affected with healthy aging**

*Daphne Silvestre, Angelo Arleo, Remy Allard*

##### **Fast concurrent processing of object shape and category in posterior MEG sensors**

*Paolo Papale, Monica Betta, Francesca Setti, Giulia Malfatti, Pietro Pietrini, Emiliano Ricciardi, Luca Turella, Andrea Leo*

##### **The relation between pleasure and beauty**

*Aenne Brielmann, Denis Pelli*

##### **A recursive Bayesian updating scheme to model the effect of prediction on individuation**

*Huseyin Boyaci, Buse M. Urgan*

##### **Are we fooling ourselves when comparing mean correct RTs, and error percentages?**

*Sven Panis, Thomas Schmidt*



## **How to control for confounds in decoding analyses of neuroimaging data**

*Lukas Snoek, Steven Miletić, H. Steven Scholte*

**COFFEE BREAK – UNIVERSITY CAMPUS, CAFETERIA**

**10.00-10.30**

**SPECIAL SYMPOSIUM – UNIVERSITY CAMPUS, AUDITORIUM (BUILDING H3)**

**10.30-12.00**

### **EUROPEAN SYMPOSIUM ON PERCEPTION AND ACTION IN SPORT**

Organized by Mauro Murgia, Tiziano Agostini, Fabrizio Sors, Alessandra Galmonte

#### **Auditory modulation of vision, proprioception and motor behavior**

*Alfred O. Effenberg, Shashank Ghai, Tonghun Hwang, Gerd Schmitz*

#### **The perception of natural and modulated movement sounds**

*Markus Raab, Nina Heims, Ricarda Schubotz*

#### **Auditory information significantly contributes to the anticipation of shot power in ball sports**

*Fabrizio Sors, Mauro Murgia, Ilaria Santoro, Alessandra Galmonte, Tiziano Agostini*

**SYMPOSIUM – UNIVERSITY CAMPUS, HALL 1A (BUILDING H3)**

**10.30-12.00**

### **3D VISION: WHAT IS THE STATE OF THE ART?**

Organized by Fulvio Domini, Dhanraj Vishwanath

#### **Open discussion**

*Moderated by Fulvio Domini, Dhanraj Vishwanath*

**TALK SESSION – UNIVERSITY CAMPUS, HALL 1B (BUILDING H3)**

**10.30-12.00**

### **EYE MOVEMENTS & PERIPHERAL VISION**

#### **(How) Does pupil size affect detection performance?**

*Sebastiaan Mathôt, Yavor Ivanov*

#### **Pupillary response to paintings of the sun**

*Maria Michela Del Viva, Serena Castellotti, Martina Conti, Claudia Feitosa-Santana*

#### **Visual feature prediction before saccadic eye movements**

*Arvid Herwig, Christian H. Poth*

#### **Trans-saccadic learning rapidly recalibrates peripheral size perception**

*Matteo Valsecchi, Carlos R. Cassanello, Arvid Herwig, Martin Rolfs, Karl R. Gegenfurtner*

### **Area prostriata in the human brain**

*Kyriaki Mikellidou, Jan W. Kurzwski, Francesca Frijia, Domenico Montanaro, David C. Burr, Maria Concetta Morrone*

### **Two-photon imaging evidence for neurons specialized in second-order stimulus processing in macaque V1**

*Shuchen Guan, Niansheng Ju, Shiming Tang, Cong Yu*

**TALK SESSION – UNIVERSITY CAMPUS, HALL 2B (BUILDING H3)**

**10.30-12.00**

#### ***ILLUSIONS & OBJECT PERCEPTION***

#### **The illusion of perceptual stability through serial dependence**

*Mauro Manassi, David Whitney*

#### **Sequence irregularity oppositely influence spatial and temporal estimates**

*Min Li, Ulrik Beierholm, Massimiliano Di Luca*

#### **When the brain fools your eyes: Pupillary response in motion-induced blindness**

*Dina Devyatko, Ronen Hershman, Michael Wagner, Ruth Kimchi, Avishai Henik*

#### **The Ebbinghaus size illusion depends more on the retinal than perceived size of surrounding stimuli**

*Saki Takao, Colin Clifford, Katsumi Watanabe*

#### **Differential fMRI responses to material motion compared to other motion types**

*Alexandra Schmid, Huseyin Boyaci, Katja Doerschner*

**LUNCH - UNIVERSITY CAMPUS, CAFETERIA**

**12.00-14.00**

**BUSINESS MEETING – UNIVERSITY CAMPUS, AUDITORIUM (BUILDING H3)**

**13.00-14.00**

**SPECIAL SYMPOSIUM – UNIVERSITY CAMPUS, AUDITORIUM (BUILDING H3)**

**14.00-15.30**

#### ***EUROPEAN SYMPOSIUM ON PERCEPTION AND ACTION IN SPORT***

Organized by Mauro Murgia, Tiziano Agostini, Fabrizio Sors, Alessandra Galmonte

#### **Real-time audio-feedback for improving motor performance**

*Nina Schaffert, Klaus Mattes*

#### **Expert players accurately detect an opponent's movement intentions through sound alone**

*Ivan Camponogara, Matthew Rodger, Cathy Craig, Paola Cesari*

**Expertise differences in identifying the direction of an opposing footballer's moves: A behavioural and ERP study with point-light stimuli**

*Michael Wright, Robin Jackson*

**Brain dynamics during action anticipation processes: A study protocol**

*Sergio Costa, Pierpaolo Croce, Maurizio Bertollo, Filippo Zappasodi*

**Emergent coordination in joint interception**

*Frank Zaal, Daphne van Opstal, Niek Benerink, Remy Casanova, Reinoud Bootsma*

**Both eye tracking and manual control performance predict batting accuracy in experienced professional baseball players**

*Li Li, Rongrong Chen*

**Predicting ball direction from compact representation and classification of whole-body throwing actions**

*Antonella Maselli, Aishwar Dhawan, Benedetta Cesqui, Marta Russo, Francesco Lacquaniti, Andrea d'Avella*

**Employing adaptive working memory training to improve the quiet eye and tennis performance under pressure**

*Emmanuel Ducrocq, Mark Wilson, Nazanin Derakshan*

**On the perception of 'flow' in action and adventure sport athletes: Individual differences in 'mindfulness' predict the likelihood of negative consequences**

*Brent Hogarth, David H. Peterzell*

**Open discussion**

*Moderated by Fabrizio Sors*

**SPECIAL SYMPOSIUM – UNIVERSITY CAMPUS, HALL 1A (BUILDING H3)**

**14.00-15.30**

**PERCEPTUAL STRUCTURES – A Festschrift for Michael Kubovy**

Organized by Marco Bertamini

**Measuring Gestalts**

*James R. Pomerantz*

**Perceptual grouping in dot lattices revisited**

*Johan Wagemans*

**Perceptual organization of solid space**

*Sergei Gepshtein*

**Dot lattices and brain dynamics**

*Cees van Leeuwen*

**Perception of symmetry: Psychophysics, neuroscience and aesthetics**

*Marco Bertamini, Alexis Makin, Giulia Rampone*

## Open discussion

*Moderated by Marco Bertamini*

**TALK SESSION – UNIVERSITY CAMPUS, HALL 1B (BUILDING H3)**

**14.00-15.30**

### **3D VISION, DEPTH AND STEREO**

#### **Human 3D shape similarity**

*Guido Maiello, Yaniv Morgenstern, Filipp Schmidt, Roland W. Fleming*

#### **Retinal-conjugate surfaces: The blur horopter**

*Agostino Gibaldi, Vivek Labhishetty, Larry N. Thibos, Martin S. Banks*

#### **Re-evaluating vergence as a distance cue**

*Paul Linton*

#### **Parallel lines sometimes diverge: A new perspective illusion**

*Brian Rogers, Alla Cherniavskaia*

#### **Experiencing 3D: Identifying the cortical substrates of the qualitative impression of stereopsis with fMRI**

*Dhanraj Vishwanath, Makoto Uji, Ian Cavin, Angelika Lingnau*

#### **Implicit and explicit assessment of environmental stability modulates visually evoked postural responses in VR**

*Georg Meyer, Iain Cant, Mark White, Natalia Cooper*

**SYMPOSIUM – UNIVERSITY CAMPUS, HALL 2B (BUILDING H3)**

**14.00-15.30**

### **ENSEMBLE PERCEPTION IS MORE THAN AVERAGES**

Organized by Gianluca Campana, Andrey Chetverikov, Árni Kristjánsson

#### **Uncertain stimulus representations aid the learning of their distributions**

*Andrey Chetverikov, Gianluca Campana, Árni Kristjánsson*

#### **Explicit and implicit judgments of distribution characteristics: Do they lead to different results?**

*Sabrina Hansmann-Roth, Árni Kristjánsson, David Whitney, Andrey Chetverikov*

#### **Optimal variance encoding of contours in naturalistic images**

*Jozsef Fiser, Jeppe Christensen, Peter Bex*

#### **Amplification in ensemble perception**

*David Whitney, Shoko Kanaya, Allison Yamanashi-Leib*

#### **The role of ensemble summaries in the segmentation and categorization of multiple intermixed items**

*Igor Utochkin*

**Representing motion ensembles in early visual cortices**

*Gianluca Campana, Árni Kristjánsson, Rita Donato, Andrey Chetverikov*

**COFFEE BREAK – UNIVERSITY CAMPUS, CAFETERIA**

**15.30-16.00**

**SPECIAL SYMPOSIUM – UNIVERSITY CAMPUS, AUDITORIUM (BUILDING H3)**

**16.00-17.30**

**EUROPEAN SYMPOSIUM ON PERCEPTION AND ACTION IN SPORT**

Organized by Mauro Murgia, Tiziano Agostini, Fabrizio Sors, Alessandra Galmonte

**New directions in research on perceptual-cognitive expertise**

*Mark Williams*

**Perception and action in context**

*Rouwen Cañal-Bruland*

**Knowledge is power? The effect of probability information on response bias and discriminability between genuine and deceptive sport actions**

*Robin Jackson*

**SPECIAL SYMPOSIUM – UNIVERSITY CAMPUS, HALL 1A (BUILDING H3)**

**16.00-17.30**

**PERCEPTUAL STRUCTURES – A Festschrift for Michael Kubovy**

Organized by Marco Bertamini

**On the pleasures of canned laughter**

*Heiko Hecht, Andreas Baranowski*

**Music cognition and perceptual organization**

*Michael Schutz*

**Breakdown of contour interpolation**

*Laurence Maloney*

**Role of visual consciousness in perceptual organization**

*Ruth Kimchi*

**Perceptual structures in selfies**

*Nicola Bruno*

**Concluding remarks**

*Michael Kubovy*

**DEEP NEURAL NETWORKS: THE NEW BENCHMARK MODEL OF VISUAL OBJECT RECOGNITION**

Organized by Astrid Zeman

**Semantic category versus shape representation in deep neural networks and the ventral visual pathway**

*Astrid Zeman, J. Brendan Ritchie, Stefania Bracci, Hans Op de Beeck*

**Architecture matters: Training and structure both affect how well deep networks predict cortical representations of objects, places and faces**

*Katherine Storrs, Johannes Mehrer, Alexander Walther, Nikolaus Kriegeskorte*

**Using psychophysics to reveal face identification information processing mechanisms in a deep neural network**

*Tian Xu, Oliver Garrod, Robin Ince, Philippe Schyns*

**Improving DNNs as models of the human ventral stream: a better visual diet and recurrent computations**

*Tim Kietzmann, Nikolaus Kriegeskorte*

**Comparing humans and deep neural networks on visual shape judgments in cluttered images**

*Christina Funke, Thomas Wallis, Judith Borowski, Claudio Michaelis, Alexander Ecker, Matthias Bethge*

**Reproducing decision-making with constrained networks to understand deep neural networks**

*Judith Borowski, Wieland Brendel, Matthias Bethge*

**CROWDING****Using the Neurorobotics Platform to explain global processing in visual crowding**

*Alban Bornet, Alexander Kroner, Jacques Kaiser, Fedor Scholz, Gregory Francis, Michael H. Herzog*

**Too good to be crowded: A peculiar case of weak crowding with high target-flanker similarity**

*Natalia Melnik, Daniel R. Coates, Bilge Sayim*

**Visual crowding and focal attention: Psychophysical and neuropsychological evidence of a link**

*Roberta Daini, Andrea Albonico, Lisa Saskia Arduino, Emanuela Bricolo, Eleonora Frasson, Manuela Malaspina, Marialuisa Martelli*

**When uncrowding of parts interferes with identifying wholes in peripheral word recognition**

*Koen Rummens, Bilge Sayim*

**Is temporal crowding merely long-lasting masking?**

*Yaffa Yeshurun, Shira Tkacz-Domb*

**Seven myths on crowding**

*Hans Strasburger*

**BREAK**

**17.30-17.45**

**SPECIAL SYMPOSIUM – UNIVERSITY CAMPUS, AUDITORIUM (BUILDING H3)**

**17.45-19.15**

**EUROPEAN SYMPOSIUM ON PERCEPTION AND ACTION IN SPORT**

Organized by Mauro Murgia, Tiziano Agostini, Fabrizio Sors, Alessandra Galmonte

**Fractional-order information in the visual control of locomotor interception**

*Reinoud Bootsma, Remy Casanova, Frank Zaal*

**Predictive visual-motor strategies developed by expert athletes when hitting a ball**

*David Mann*

**Coordinating interception and throwing actions using auditory information in the absence of vision**

*Matthew Rodger*

**TALK SESSION – UNIVERSITY CAMPUS, HALL 1A (BUILDING H3)**

**17.45-19.15**

**ART & SCENE PERCEPTION**

**Both artworks and computer-generated images with equivalent physical properties evoke similar aesthetic subjective judgements**

*Vicente Estrada, Markus Müller, Anjan Chatterjee, Stacy Humphries*

**Consistency in preference for fractal-scaling properties across synthetic noise images and artworks**

*Catherine Viengkham, Branka Spehar*

**The importance of the Point de Vue - Looking on the ground and elsewhere**

*Dirk Junker, Christian Nollen*

**Maps of visual importance**

*Xi Wang, Kenneth Holmqvist, Marc Alexa*

**Anchor objects predict search performance in real-world scenes**

*Melissa Vo, Sage Boettcher, Dejan Draschkow*

**Set summary perception, outlier pop out, and categorization: A common underlying computation?**

*Shaul Hochstein, Noam Khayat, Marina Pavlovskaya, Yoram Bonneh, Nachum Soroker*

**VISUAL SEARCH & BISTABLE PERCEPTION****Effect of conscious awareness of distractors on reaction times to seen targets**

*Matilda Cederblad, Aleksandar Visokomogilski, Søren Andersen, Mary-Joan MacLeod, Arash Sahraie*

**Ultra-rapid detection of animal visual warning signals**

*Olivier Penacchio, Julie M. Harris*

**The preview benefit in easy and difficult color x form search**

*Günter Meinhardt, Sophie Lukes, Malte Persike*

**The hyperactivity of the magnocellular system and cognitive impairment in patients with the first-episode of schizophrenia**

*Elena Isaeva, Irina Shoshina, Yulia Simon, Yulianna Mukhitova, Alexander Khan`ko, Oleg Limankin*

**Pupillometry reveals perceptual differences that are tightly linked to autistic traits in typical adults**

*Paola Binda, Marco Turi, David C. Burr*

**Can I trust in what I see? - EEG evidence for reliability estimations of perceptual outcomes**

*Jürgen Kornmeier, Ellen Joos, Michael Bach, Ludger Tebartz van Elst*

**MULTISENSORY & DECISION MAKING****Metacognitive control of sensory evidence accumulation**

*Tarryn Balsdon, Valentin Wyart, Pascal Mamassian*

**The influence of multitasking on confidence judgements**

*Mahiko Konishi, Clemence Compain, Jerome Sackur, Vincent de Gardelle*

**Lateral inhibition between evidence accumulators explains magnitude sensitivity in perceptual decision making**

*Angelo Pirrone, Sheng Li*

**Visual temporal representation elicits early responses in human auditory cortex**

*Maria Bianca Amadeo, Claudio Campus, Monica Gori*

**Temporal visual representation elicits early auditory responses in normal hearing but not in deaf individuals.**

*Monica Gori, Maria Bianca Amadeo, Chiara Valzolgher, Francesca Baruffaldi, Francesco Pavani, Claudio Campus*

**The space occupied by an invisible body: Peri-personal space as a coupling prior**

*Massimiliano Di Luca, Jean-Paul Noel, Majed Samad, Andrew Doxon, Justin Clark, Sean Keller*