

ECVP
2016

European Conference on Visual Perception

Barcelona 2016



Saturday 27th August	Sunday 28th August	Monday 29th August	Tuesday 30th August	Wednesday 31st August	Thursday 1st September
Registration	Registration	Registration	Registration	Registration	Registration
	Simposium Large-scale models of brain activity	Eye movements (S) Inversion Problems in Vision Science	(S) New directions in active vision (S) Color: core perception	(S) Dynamic sequential effects in visual perception	Attention (S) Visual perception in healthy aging
SEPEx tutorial on PSYCHOPHYSICS	Simposium Visual neurosciences and computer science	Posters	Posters	Posters	Posters
	Lunch break	Lunch break	Lunch break	Business meeting	Lunch break
		Adaptator Develop- ment met-	Decision making	Multisensory	Perceptual organization
		Object processing	Clinical	Computational models	Methods and applications
SEPEx tutorial on COMPUTATIONAL NEUROSCIENCE	Registration	Posters	Posters	Posters	Posters
		Temporal processing	Motion	Perceptual learning	Spatial vision: 2D and 3D
	Perception Lecture	Crowding and brightness	Color	Bistable perception	Biological motion
				Rank Lecture	
	Reception		Illusions Night		
				Conference dinner	

(S)



CosmoCaixa

Pau Casals Hall

Oriol Martorell Hall

Tele Montoliu Hall

Audition Foyer

UPF
Campus

Can Cortada

Symposia

(1)

(2)

(3)

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COMMITTEES

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Acknowledgements

We would like to thank Pep Batista-Trobalón, Núria Amenós, Cristina Pulido, Maria Pilar Gómez, Mercedes Conejo, Juanma Garcia and Manuel Moreno for their support in organizing the conference.

WELCOME TO BARCELONA!

On behalf of the Organizing Committee, I am delighted to welcome you in Barcelona for the 39th European Conference on Visual Perception. This year's meeting will feature more than 800 talks/posters and we would like to thank all authors and co-authors from all over the world for their contributions.

We hope you enjoy the conference and that during the meeting you have the opportunity to deepen your knowledge on vision science and to share it with old and new colleagues. The broad range of different research topics encouraged us to have part of the conference with three parallel sessions so that we could have a larger number of talks and a representation of the different topics.

The official program starts off on Sunday evening with the Perception lecture followed by the Reception. This year, as satellite events we have organized two tutorials (Saturday) and two symposia (Sunday) that will be held at the CosmoCaixa (Science Museum).

We are very honored to have two extraordinary speakers for our plenary lectures: Pascal Mamassian (Perception Lecture) and Dora Angelaki (Rank Lecture). We appreciate very much they accepted our invitation and look forward to hear their summaries of results from their exciting research.

Most of the relevant information can be found in this booklet, but more can be found on the webpage (www.ub.edu/ecvp) and in the conference app (available via Guidebook).

Of course, we also encourage you to enjoy Barcelona as well. Do not miss the famous art-nouveau architecture, the museums, the beaches, the sun and the extraordinary food.

On behalf of the Organizing committee,

Joan López-Moliner

SPONSORS



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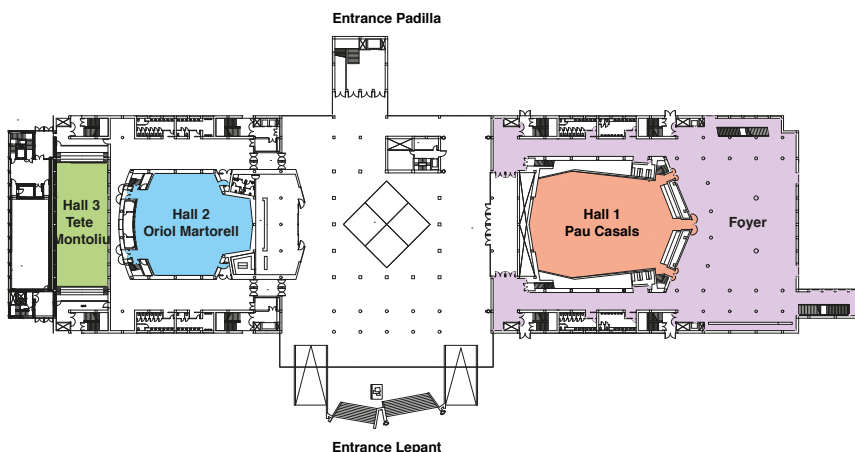


Obra Social "la Caixa"

VENUES

L' Auditori

[L'Auditori](#) of Barcelona is the main ECVF venue. L'Auditori is one of the two main concert halls in the city. Three halls will be available for the ECVF conference: the Pau Casals Hall (the main concert hall), the Oriol Martorell Hall and the Tete Montoliu Hall. The plenary lectures will take place in the Pau Casals Hall. Plenty of space for posters is also available. Address: Lepant 150, 08013 Barcelona



CosmoCaixa

[CosmoCaixa](#) is a Science Museum which holds both permanent and temporary exhibitions, a planetarium and a living Amazonian forest. The exhibitions include interactive areas and workshops for kids and families. This museum is engaged in science outreach activities and organizes several conferences and dissemination activities. It was awarded as the 2006 European Museum of the Year. The satellite activities of this year (tutorials and pre-ECVP symposia) will be organized here.

Address: Carrer d'Isaac Newton, 26, 08022 Barcelona

Pompeu Fabra Communication Campus

The Illusions Night will take place at the [Poblenou Communication Campus](#) of the Universitat Pompeu Fabra. The campus is located at only 12 minutes walking from l'Auditori.

Address: Roc Boronat, 138, 08018 Barcelona

ATTENDEE RESOURCES

Abstract book:

A printed Abstract book is not provided. All the accepted abstract are available on-line in the journal Perception.

Audiovisual equipment for talks:

ECVP will provide a laptop for presentation but you may also use your own device. In case you plan to use the presentation laptop please bring your talk in Powerpoint or Adobe format on a USB stick.

Badge:

The badge is the official identification for the conference and should be worn at all the events.

Business meeting:

The business meeting is Wednesday 31st August at 13:00. It is open to all participants.

Certificates of Attendance:

To get a certificate of attendance visit the Registration desk.

Coffee breaks and lunch:

Two coffee breaks are available every day. During lunch breaks food can be bought at the venue or in some near places (see Restaurants section).

Copying and printing

On the ECVP website you can find some places where to print your poster in Barcelona.

Insurance and liability

The Conference organizers and the Auditori shall not be held liable for personal injury or any loss or damage to the belongings of conference delegates, either during or as a result of the conference. Please check the validity of your own insurance.

Internet access:

ECVP provides free wireless Internet access in the Auditori Foyer and Pau Casal's hall (Room 1). Network: ecvp Password: ecvp

Mobile app:

This year's app will be available for all mobile platforms and can be downloaded from the Guidebook (further instructions can be found in the ECVP webpage)

Registration and on-site payment:

You can register on l'Auditori if you have not done that yet. On-site registration requires payment in cash. At registration you will receive the conference bag containing all the materials.

RESTAURANTS

With a long historical tradition, catalan cuisine is well known and has become a world reference with restaurants such as El celler de Can Roca (considered n. 1 in the world the last years) or El Bulli (hosted that position for a record five times). At the same time, Barcelona is one of the most cosmopolitan cities in Europe, and this fact is also reflected on the broad offer one can find in gastronomy.

Here we provide you with the names of some recommended restaurants, grouped in six categories differing in the type of food they offer. We have limited our recommendations to places that are close to the city center (or to the venue), but obviously it is possible to find very nice restaurants in other areas as well. We encourage you to book in advance in case you have special interest in a certain restaurant.

- Seafood and Paella: El suquet de l'almirall, La mar salada, 3 nusos, La camarga, Can Solé, Can Majó, Agua, Bestial, 7 portes
- Tapas: Bormuth, La Bodegueta, L'antic bocoí del gòtic, Agüelo013, La flauta, Bar Lobo, Casa Alfonso, Fàbrica Moritz, AdagioTapas
- Catalan Cuisine: Petit comitè, Windsor, Senyor de Parellada, El Principal, Els 4 gats, Casa Calvet, El racó d'en Cesc, L'olivé
- Mediterranean Cuisine: Boca grande, Monvinic, Flamant, Les Quinze nits, Murivecchi, Balthazar, Tragaluz, Citrus
- Vegetarian: Teresa Carles, L'hortet, Rasoterra
- Gourmet: Àbac, Moments, Disfrutar, Angle, Cinc sentits, Tickets, Dos Cielos

Around the venue

During the lunch breaks food can be bought at l'Auditori but it is also possible to go to some of the near restaurants/bars. Some of the places around the venue are:

- Bar Bierzo: traditional Spanish restaurant, with a generous menu (Address: Ausiàs March, 138)
- Mara: menu and sandwiches (Address: Lepant, 125)
- Pirata's: no fixed-price menu, only à la carte (Address: Ausiàs March, 157)
- Blanc Verd: menu and sandwiches (Address: Ausiàs March, 163)
- Ayres del sud: variate menu, although specialized in Argentinian meats (Address: Casp, 151)
- Menta: menu and sandwiches (Address: Casp, 171)
- Zhe Yi Jia: big Chinese restaurant (Address: Lepant, 208)
- Novecento: beautiful art-nouveau restaurant. Menu. (Address: Diputació, 432)
- Nogal: mediterranean cuisine. Great value for price. Menu. (Address: Diputació, 412)
- Vic Brasseria: Catalan specialties. Menu. (Address: Sicília, 202)
- Dune: great assortment of tapas, menu also. Spacious underground dining room. (Address: Sicília, 111)
- Jaizkibel: Basque pintxos (tapas) and fresh seafood. (Address: Sicília, 180)

CONFERENCE DINNER

The conference dinner will take place on **Wednesday 31st of August** in Can Cortada, an old Catalan cottage (Masia) from the XVI century and protected historical heritage of Barcelona. The emblematic restaurant opened its doors in 1994 and since then it offers a catalan cuisine specialized in top-quality meals of our land. The decoration has been respectful and harmonic with the building and its history.

In order to reach Can Cortada for the dinner, organized buses will depart from l'Auditori at 19:30 (right after the Rank Lecture).

It will be possible to buy tickets for the dinner, if still available (space is limited). To purchase a ticket on site contact a member of the organization. The prize is 60€ and payment in cash will be required.

AWARDS

As well as in previous years, this year a few participants have been granted to help them travel and attend the conference. ECVP congratulates this year's recipients:

Olga Vyazovska	Chou Wing Yi	Alena Kulikova
Carmen Pons	Emanuela Liaci	Lau Cheuk Kei, Kenji
Ekaterina Gordienko	Ardasheva Liubov	Ellen Joos
Hannah Agnew	Aoife Mahon	Nilufar Razmi
Vasily Minkov	Agustín Décima	Polina Krivvykh
Kishore Kumar Jagini	Jordi Asher	Sandra Arranz-Paraíso
Ágoston Török	Martina Conti	Isabel C. Lisboa
Edgardo Fabián Mamani	Katie McLeod	Samantha Gregory

This year the Tom Troscianko Award for Adventurous Vision Scientists, jointly sponsored by ECVP organizers and AVA (Applied Vision Association) has been awarded to Nathan Mifsud (UNSW Australia).

EXHIBITORS

The following companies are exhibiting at ECVP 2016.



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SATELLITE EVENTS

This year two pre-ECVP symposia and two tutorials have been organized as satellite events. These activities will be held at the CosmoCaixa and are free for ECVP delegates.

SEPEX TUTORIALS (Saturday 27th August)

Fitting psychometric functions in R by Daniel Linares (11h-13h)

The response of humans, other animals and neurons in a classification task with a binary response variable and a stimulus level as continuous explanatory variable is often modelled using psychometric functions. Psychometric functions can be easily fitted in the R free language using a variety of tools. In the tutorial, I will illustrate these different tools with an emphasis on the quickpsy package.

Introduction to Neuronal Modeling by Matthias S. Keil (15h-17h)

The aim of the tutorial is to convey the basics of simple neuron models. Specifically, I will present the membrane potential equation and explain how to solve it numerically. Subsequently, it will be shown how model neurons can be connected to each other in order to simulate (small) neuronal networks. Further concepts, such as receptive fields, spiking mechanisms, learning, or temporal low-pass filtering, will also be briefly discussed. Programming will be done with Matlab.

SYMPOSIA (Sunday 28th August)

Large-Scale Models of Brain Activity (9h-11h)

Organizer: Gustavo Deco (Universitat Pompeu Fabra)

- "Large-scale models of wakefulness and sleep" by Gerald Hahn
- "A brain network for mental Imagery and simulation" by Raphael Kaplan:
- Viktor Jirsa: TBA
- "Whole brain Models: Lessons from the Human Connectome" by Gustavo Deco

Visual Neurosciences and Computer Science (11:30h-13:30h)

Organizer: Xavier Otazu (Computer Vision Centre / Universitat Autònoma de Barcelona)

- Thomas Serre (Brown University, USA) : "How neuroscience can help computer vision and vice-versa"
- Jesús Malo (Universitat de València, Spain): Visual neuroscience and image processing: a positive feedback story

PERCEPTION LECTURE (Sunday 28th, 18:00h, Auditori)

Pascal Mamassian

Laboratoire des Systèmes Perceptifs
École Normale Supérieure, Paris



Pascal Mamassian is director of research at the CNRS and the head of the Laboratoire des Sytemes Perceptifs at the Ecole Normale Superieure in Paris, France. He received a Telecommunication Engineering degree in Paris and a PhD in Experimental Psychology from the University of Minnesota. Using a combination of visual psychophysics and probabilistic modelling, his recent research interests are in 3D shape and material perception, multi-sensory integration, motion speed integration, history effects in perception, and visual confidence. With his collaborators, he has co-authored over 70 journal articles and he is currently serving on the editorial board of seven scientific journals including Perception and Journal of Vision. Upon returning to France after lecturing several years at the University of

Glasgow, he received a Chair of Excellence from the French ministry of research. He is serving on the neuroscience panel of the CNRS, has been elected President of the Vision Sciences Society, and is a past co-ordinator of the European Conference on Visual Perception.

Visual confidence

Visual confidence refers to our ability to predict the correctness of our perceptual decisions. Knowing the limits of this ability, both in terms of biases (e.g. overconfidence) and sensitivity (e.g. blindsight), is clearly important to approach a full picture of perceptual decision making. However, established methods to measure visual confidence are prone to at least two major problems. First, they tend to rely on subjective and non-measurable variables, such as boundaries between confidence levels in confidence rating tasks or criteria to opt-out in opt-out paradigms. Second, they can often be accused of measuring perceptual performance with high-precision rather than genuinely meta-perceptual performance (the perception of our perception). It is notoriously difficult to resolve the second problem, as witnessed by the vast literature on animal cognition that attempts to decide which animal species have the ability to make confidence judgments. But it is simple to address the first problem by using a confidence forced-choice paradigm. In this paradigm, observers have to choose which of two perceptual decisions is more likely to be correct. I will review some results obtained with the confidence forced-choice paradigm, discuss limits of this approach and future directions, and place this paradigm within the theoretical frameworks of signal detection theory and accumulation of evidence models.

RANK LECTURE (Wednesday 31st, 18:30, Auditori)

Dora Angelaki

Department of Neuroscience, Baylor College of Medicine
Department of Electrical and Computer Engineering, Rice University



Dr. Angelaki is the Wilhelmina Robertson Professor & Chair of the Department of Neuroscience, Baylor College of Medicine, with a joint appointment in the Departments of Electrical & Computer Engineering and Psychology, Rice University. She holds Diploma and PhD degrees in Electrical and Biomedical Engineering from the National Technical University of Athens and University of Minnesota. Her general area of interest is computational, cognitive and systems neuroscience. Within this broad field, she specializes in the neural mechanisms of spatial orientation and navigation using humans and non-human primates as a model. She is interested in neural coding and how complex, cognitive behavior is produced by neuronal populations. She has received many honors and awards, including the inaugural Pradal Award in Neuroscience from

the National Academy of Sciences (2012), the Grass lectureship from the Society of Neuroscience (2011), the Halpike-Nylen medal from the Barany Society (2006) and the Presidential Early Career Award for Scientists and Engineers (1996). Dr. Angelaki maintains a very active research laboratory funded primarily by the National Institute of Health and a strong presence in the Society for Neuroscience and other international organizations.

Merging of our senses: a brain challenge for perceptual reality

Navigation and spatial orientation are vital functions in our lives. Sensory information arises from the balance (vestibular) organs in the inner ear, as well as from visual optic flow and other sensory, motor and cognitive cues. As such, a fundamental aspect of our sensory experience is how information from different modalities is often seamlessly integrated into a unified percept. Both theory and behavioral studies have shown that humans and animals combine multiple cues, as well as prior experiences based on the statistics of our environment and our interactions with it, according to a statically optimal scheme derived from Bayesian probability theory. Using navigational heading perception tasks, we show how multisensory interactions improve precision, reaction time and accuracy. The latter is particularly important when navigational environments include independently-moving objects. We study both computational principles and their neural implementations in diverse subcortical and cortical circuits that process visual (optic flow) and vestibular (acceleration) signals.

TALK SCHEDULE

The digits of the talks and symposia indicate the day, time, type of session, hall and number of talk within the session. For example: **13T101 = 1** First day; **3=** afternoon (17-18:30); **T=Talk**; **1=Room 1** (Pau Casals); **01=**talk #1 in that session. Each talk slot at the conference has a length of 15min. Please prepare your presentation to be not longer than 12 min to allow for questions and comments from the audience.

Monday, 29th August

Time	Talk Room 1	Talk Room 2	Talk Room 3
9:00 - 11:00	Eye movements	Inversion problems in vision science	Perceptual models of lighting
14:00 - 15:30	Adaptation	Development	Object processing
17:00 - 18:30	Temporal processing	Crowding	Lightness and brightness

Tuesday, 30th August

Time	Talk Room 1	Talk Room 2	Talk Room 3
9:00 - 11:00	New directions in active vision	Color: cone opponency and beyond	Scene perception
14:00 - 15:30	Decision making	Clinical	
17:00 - 18:30	Motion	Colour	

Wednesday, 31st August

Time	Talk Room 1	Talk Room 2
9:00 - 11:00	Dynamic sequential effects in visual perception	Perception and action
14:00 - 15:30	Multisensory	Computational models
17:00 - 18:30	Perceptual models	Bistable perception

Thursday, 1st September

Time	Talk Room 1	Talk Room 2
9:00 - 11:00	Attention	Visual perception in healthy aging
14:00 - 15:30	Perceptual organization	Methods and applications
17:00 - 18:30	Spatial vision: 2D and 3D	Biological motion

POSTER SCHEDULE

Posters should be put up in the morning and taken down at the end of the day. The first number of the poster indicates the day and the last three digits of posters indicate the number of the poster board. For example: **1P165** = **1** First day; **P** Poster; **165** poster number. Authors of odd numbers are expected to be present at their posters during the morning; authors of even numbered posters are expected to be present in the afternoon. Poster boards will be 2 meters width x 1 meter height (landscape orientation). A0 size landscape is recommended.

Monday, 29th August

- | | | |
|----------------------|-----------------------------------|-------------------------------|
| - Attention: search | - Faces | - Objects: recognition |
| - Attention: spatial | - Grouping | - Perception and action |
| - Clinical | - Illusions | - Visual memory and cognition |
| - Eye movements | - Neural models and computational | |

Tuesday, 30th August

- | | | |
|---------------------|--------------------------------------|-------------------------------|
| - Adaptation | - Lightness, brightness and contrast | - Multisensory |
| - Attention: search | - Motion/Complex and models | - Multistable |
| - Binocular/3D | | - Visual memory and cognition |
| - Eye movements | | |

Wednesday, 31st August

- | | | |
|-----------------------------------|----------------------|---------------------------|
| - Art/Illusions | - Color/Scene | - Motion |
| - Attention: objects and features | - Crowding | - Perception and action |
| - Binocular/3D | - Decision making | - Perceptual organization |
| - Color | - Development | - Temporal processing |
| | - Faces: expressions | |

Thursday, 1st September

- | | | |
|-----------------------|-------------------------------|------------------------|
| - Aging | - Eye movements: applications | - Multisensory |
| - Applied vision | - Faces | - Scene perception |
| - Attention: tracking | - Learning | - Scene: stats summary |
| - Biological motion | - Motion:vection | - Spatial aspects |
| - Clinical | | |

MONDAY TALKS

Morning

Talks 1. Eye movements (*chair: Karl Gegenfurtner; Room 1*)

- 9:00 to 9:15 - [11T101] **Saccade preparation reshapes sensory tuning.** *Marisa Carrasco, Hsin-Hung Li, Antoine Barbot*
- 9:15 to 9:30 - [11T102] **Perisaccadic suppression during double-step saccades.** *Eckart Zimmermann, Concetta Morrone, Paola Binda*
- 9:30 to 9:45 - [11T103] **Modeling attention and saccade programming in real-world contexts.** *Gregory Zelinsky, Hossein Adeli, Françoise Vitu*
- 9:45 to 10:00 - [11T104] **Counter compression: the cause of reverse pre-saccadic perceptual distortion.** *Tamara L Watson, Markus Lappe*
- 10:00 to 10:15 - [11T105] **Oculomotor learning with slowly fluctuating disturbances of visual feedback.** *Florian Ostendorf*
- 10:15 to 10:30 - [11T106] **Vergence Eye Movements to Unbalanced Dichoptic Visual Stimuli.** *Guido Maiello, Agostino Gibaldi, Silvio Sabatini, Peter Bex*
- 10:30 to 10:45 - [11T107] **Visuomotor Behavior of Dominant and Non-Dominant Eye in 3D Visual Exploration.** *Agostino Gibaldi, Andrea Canessa, Silvio P. Sabatini*
- 10:45 to 11:00 - [11T108] **Inflexible eye movements to faces with changes in front end sensory processing.** *Miguel P Eckstein, Yuli Y Tsank*

Symposium 1. What is in your mind?: Inversion Problems in Vision Science

(*organizer Jesus Malo; Room 2*)

- 9:00-9:20 - [11S201] **NeuroInformation Processing Machines.** *Aurel A Lazar*
- 9:20-9:40 - [11S202] **A fully computable model of stimulus-driven and top-down effects in high-level visual cortex.** *Kendrick Kay, Jason Yeatman*
- 9:40-10:00 - [11S203] **Neural decisions under perceptual uncertainty.** *Janneke F Jehee*
- 10:00-10:20 - [11S204] **Modeling and decoding of natural visual cognition.** *Shinji Nishimoto*
- 10:20-10:40 - [11S205] **Non-linear encoding and linear decoding in the retina.** *Olivier Marre, Ulisse Ferrari, Christophe Gardella, Stephane Deny, Thierry Mora*
- 10:40-11:00 - [11S206] **Deep neural networks: a new framework for modeling biological vision and brain information processing.** *Nikolaus Kriegeskorte*

Symposium 2. Perceptual models of lighting (*organizer: Richard F. Murray; Room 3*)

- 9:00-9:20 - [11S301] **Lighting as a perceptual grouping problem.** *Alan L Gilchrist*
- 9:20-9:40 - [11S302] **Interactions between illumination, shape and reflectance.** *Wendy J Adams*
- 9:40-10:00 - [11S303] **A contrast-based model of lightness perception.** *Marianne Maertens, Robert Shapley, Christiane Wiebel*
- 10:00-10:20 - [11S304] **Human vision uses a flexible model of lighting variations.** *Richard F Murray, John D. Wilder, Minjung Kim*

- 10:20-10:40 - [11S305] **The appearance of light.** *Sylvia Pont*
 10:40-11:00 - [11S306] **Equivalent illumination models and the cues selecting them.**
Laurence T Maloney

Midday

Talks 2. **Adaptation** (chair: *Susana Martínez-Conde; Room 1*)

- 14:00 to 14:15 - [12T101] **Different serial dependencies for the perception of stable and changeable facial attributes.** *David Alais, Jessica Taubert, David Burr*
 14:15 to 14:30 - [12T102] **Single-blink adaptation of gaze direction to correct for oculomotor errors.** *Gerrit Maus, Thérèse Collins*
 14:30 to 14:45 - [12T103] **Transparency cues determine afterimage filling-in.** *Jeroen J van Boxtel*
 14:45 to 15:00 - [12T104] **Changes in visibility as a function of spatial frequency and microsaccade occurrence.** *Susana Martinez-Conde, Francisco Costela, Michael McCamy, Mary Coffelt, Jorge Otero-Millan, Stephen Macknik*
 15:00 to 15:15 - [12T105] **Adaptation of face gender, expression, and head direction from random-noise adaptation images: A surprising prediction of Li and Atick's efficient binocular coding theory.** *Keith May, Li Zhaoqing*
 15:15 to 15:30 - [12T106] **The Neural Encoding of Bodies along the Dimensions of Fat and Muscle.** *Kevin R Brooks, Daniel Sturman, Jonathan Mond, Richard Stevenson, Ian Stephen*

Talks 3. **Development** (chair: *Monica Gori, Room 2*)

- 14:00 to 14:15 - [12T201] **Gist perception in adolescents with and without ASD: Ultra-rapid categorization of meaningful real-life scenes.** *Steven Vanmarcke, Lotte van Esch, Ruth van der Hallen, Kris Evers, Ilse Noens, Jean Steyaert, Johan Wagemans*
 14:15 to 14:30 - [12T202] **Dorsal stream deficits following perinatal brain injury: reduced global motion sensitivity correlated with specific components of visual attention in the ecab (early child attention battery).** *Janette Atkinson, Oliver Braddick, Christine Montague-Johnson, Morag Andrew, Jeremy Parr, Peter Sullivan*
 14:30 to 14:45 - [12T203] **Development of shape from shading perception.** *Ayelet Sapir, Giovanni d'Avossa*
 14:45 to 15:00 - [12T204] **Normative values for a speed-acuity test to determine delays in visual processing speed.** *Annemiek Barsingerhorn, Nienke Boonstra, Jeroen Goossens*
 15:00 to 15:15 - [12T205] **Development of visual information sampling in road traffic situations.** *Geraldine Jean-Charles, Roberto Caldara, Sebastien Miellat*
 15:15 to 15:30 - [12T206] **Colour discrimination ellipses of infants aged 4-6 months.** *Jenny M. Bosten, Alice Skelton, Anna Franklin*

Talks 4. **Object processing** (chair: Claus-Christian Carbon, Room 3)

- 14:00 to 14:15 - [12T301] **Viewpoint and identity-invariant categorisation of the six basic expressions.** *Milena Dzhelyova, Bruno Rossion*
- 14:15 to 14:30 - [12T302] **What causes the other-race effect? Evidence from classification images.** *William Simpson, Christopher Longmore, Grace Anderson, Sylvia Terbeck*
- 14:30 to 14:45 - [12T303] **Dynamic reweighting of facial form and motion cues during face recognition.** *Katharina Dobs, Leila Reddy*
- 14:45 to 15:00 - [12T304] **Wobble-wobble: motion and shape indicate softness of deformable materials.** *Vivian C Paulun, Filipp Schmidt, Jan Jaap R. van Assen, Roland W. Fleming*
- 15:00 to 15:15 - [12T305] **An episodic face space model for representing faces.** *Tobias M Schneider, Claus-Christian Carbon*
- 15:15 to 15:30 - [12T306] **Identifying shape features underlying liquid perception.** *Jan Jaap R. van Assen, Pascal Barla, Roland W. Fleming*

Afternoon

Talks 5. **Temporal processing** (chair: Warrick Roseboom, Room 1)

- 17:00 to 17:15 - [13T101] **Multiple Modality Dependent Priors in Human Time Perception.** *Darren Rhodes, Warrick Roseboom, Anil Seth*
- 17:15 to 17:30 - [13T102] **Individual temporal integration window durations correlate with resting state alpha.** *Jan Drewes, Weina Zhu, Evelyn Muschter, David Melcher*
- 17:30 to 17:45 - [13T103] **Pupil hazard rates predict perceived gaze durations.** *Nicola Binetti, Charlotte Harrison, Isabelle Mareschal, Alan Johnston*
- 17:45 to 18:00 - [13T104] **Right hemisphere dominance in temporal attention: a TMS study.** *Sara Agosta, Denise Magnago, Lorella Battelli*
- 18:00 to 18:15 - [13T105] **Dynamic changes in cortical effective connectivity underlie transsaccadic integration in humans.** *Henry Railo, Jarno Tuominen, Valtteri Kaasinen, Henri Pesonen*
- 18:15 to 18:30 - [13T106] **Spatial but not temporal bisection of sound sources elicit early occipital cortex responses in human.** *Claudio Campus, Giulio Sandini, Maria Concetta Morrone, Monica Gori*

Talks 6. **Crowding** (chair: Michael Herzog, Room 2)

- 17:00 to 17:15 - [13T201] **Feature-based attention reduces the critical spacing of visual crowding.** *Søren K Andersen, Nathan Faivre, Ramakrishna Chakravarthi, Sid Kouider*
- 17:15 to 17:30 - [13T202] **Crowding, spatial complexity and the W-shape of serial position functions for identification of letters and symbols.** *Eric Castet, Marine Descamps, Ambre Denis-Noël, Pascale Colé*
- 17:30 to 17:45 - [13T203] **Concordant effects of letter similarity in crowding and visual search.** *Daniel R Coates, Johan Wagemans, Bilge Sayim*
- 17:45 to 18:00 - [13T204] **How best to unify crowding?** *Matthew Pachai, Adrien Doerig, Michael Herzog*

- 18:00 to 18:15 - [13T205] **Flanker stimuli suppress target processing in visual cortex beyond the range of behavioural interference.** *Leili Soo, Ramakrishna Chakravarthi, Plamen Antonov, Søren K. Andersen*
- 18:15 to 18:30 - [13T206] **Crowding effects in real 3D.** *Lisa V Eberhardt, Anke Huckauf*

Talks 7. Lightness & Brightness (chair: *Sunčica Zdravković*)

- 17:00 to 17:15 - [13T301] **Object selective influence of fixated luminance on brightness perception in the periphery of the visual field.** *Matteo Toscani, Matteo Valsecchi, Karl Gegenfurtner*
- 17:15 to 17:30 - [13T302] **A novel paradigm for studying the relationship between luminance perception and contrast perception.** *David Kane, Marcelo Bertalmio*
- 17:30 to 17:45 - [13T303] **Lightness perception in real and simulated scenes.** *Ana Radonjić, David Brainard*
- 17:45 to 18:00 - [13T304] **Brightness illusions as (unconditionally imposed) signal alterations by the outer retinal network.** *Matthias S Keil*
- 18:00 to 18:15 - [13T305] **The effect of color on perceived luminance contrast and luminance on perceived color contrast.** *Kathy T Mullen, Yeon Jin Kim*
- 18:15 to 18:30 - [13T306] **Inferring light characteristics in spaces with multiple light zones.** *Tatiana Kartashova, Huib de Ridder, Susan te Pas, Sylvia Pont*

MONDAY POSTERS

Attention: Search

- 1P001. **Contingent affective capture: manipulating top-down search goals induces involuntary capture by threat.** *Christopher Brown, Nick Berggren, Sophie Forster*
- 1P002. **Can attentional templates operate in a spatially-localised format during visual search? An electrophysiological investigation.** *Nick Berggren, Michael Jenkins, Cody McCants, Martin Eimer*
- 1P003. **Fixation-related potentials in overt visual search for multiple targets.** *Hannah Hiebel, Joe Miller, Margit Höfler, Anja Ischebeck, Christof Körner*
- 1P004. **The Role of Working Memory in Serial Overt Visual Search: A Combined Eye Tracking and fMRI Study.** *Joe Miller, Hannah Hiebel, Margit Höfler, Anja Ischebeck, Christof Körner*
- 1P005. **The attentional salience of a reward cue outlasts reward devaluation.** *Matteo De Tommaso, Tommaso Mastropasqua, Massimo Turatto*
- 1P006. **Inhibition of irrelevant objects in repeated visual search?** *Sebastian A Bauch, Christof Körner, Iain D. Gilchrist, Margit Höfler*
- 1P007. **Gaze fixations and memory in short and massive repeated visual search.** *M Pilar Aivar, Meagan Y. Driver*
- 1P008. **Distraction in visual search is driven by neutral information as well as association with reward.** *Luke Tudge, Torsten Schubert*
- 1P009. **Visual search during navigation in complex virtual environments: an eyetracking study.** *Chris Ramsey, Christos Gatzidis, Sebastien Miellet, Jan Wiener*
- 1P010. **Saccades performance on visual search task center-periphery.** *Edgardo F Mamani, Mirta Jaén*
- 1P011. **Intertrial Priming and Target Certainty Both Affect Singleton Distractor Interference During Visual Search.** *Jacquelyn Berry*
- 1P012. **Search for symbolic images of real-life objects: An eye movement analysis.** *Irina Blinnikova, Anna Izmalkova, Maria Semenova*

Attention: Spatial

- 1P013. **Selective attentional bias to explicitly and implicitly predictable outcomes.** *Noelia Do Carmo Blanco, Jeremie Jozefowicz, John J.B. Allen*
- 1P014. **Attentional capture by subliminal onsets - Stimulus-driven capture or display wide contingent orienting?** *Tobias Schoeberl, Ulrich Ansorge*
- 1P015. **Entire valid hemifield shows IOR during reference frame task.** *Liubov Ardasheva, Tatiana Malevich, Joseph MacInnes*
- 1P016. **Task dependency of audio-visual semantic congruency effect on spatial orienting.** *Daria Kvasova, Salvador Soto-Faraco*
- 1P017. **Continuous CTOAs in a cuing task experiment bring about Inhibition of Return, but not early facilitation.** *Tatiana Malevich, Liubov Ardasheva, W. Joseph MacInnes*
- 1P018. **Location based processing in object substitution masking.** *Iiris Tuvi, Talis Bachmann*
- 1P019. **Attentional capture by unexpected onsets depends on the top-down task-set.** *Josef G. Schönhammer, Dirk Kerzel*

1P020. **Testing three systems of attention with saccadic and manual responses.**

Alena Kulikova, W. Joseph MacInnes

1P021. **Visual strategies of viewing flow visualisations under different workload conditions and representation types.** *Vladimir Laptev, Pavel A. Orlov, Ulyana M.*

Zhmailova, Vladimir Ivanov

1P022. **Orientation-Contrast-based Retinotopy.** *Frans W Cornelissen, Funda Yildirim*

1P023. **Locally-directed visual attention as assessed by the attentional blink: Does video game experience really matter?** *Travis C Ting, Nicole H.L. Wong, Dorita H.F. Chang*

1P024. **Attending to external feedback in goal-directed pointing: Differences in attention allocation based on feedback.** *Aoife Mahon, Constanze Hesse, Amelia Hunt*

1P025. **The role of perceptual factors in the reflexive attentional shift phenomenon.** *Alessandro Soranzo, Christopher Wilson, Marco Bertamini*

Clinical

1P026. **Perception of backward visual masking in a patient with bilateral frontal leucotomy.** *Hector Rieiro, Susana Martinez-Conde, Jordi Chanovas, Emma Gallego, Fernando Valle-Inclán, Stephen Louis Macknik*

1P027. **Reading in visual noise in developmental dyslexia and autism spectrum disorders.** *Milena S Mihaylova, Katerina Shtereva, Yordan Y. Hodzhev, Velitchko Manahilov*

1P028. **Autistic traits indicate characteristic relation between self-body, others-body, and spatial direction.** *Hanako Ikeda, Makoto Wada*

1P029. **Neurotechnologies for rehabilitation of the patients in neurological and psychiatric clinics.** *Elena Yakimova, Evgeny Shelepin, Sergey Pronin, Yuri Shelepin*

1P030. **Visual rehabilitation in chronic cerebral blindness: a randomized controlled crossover study.** *J.A. Elshout, F. van Asten, C.B. Hoyng, D.P. Bergsma, A.V. van den Berg*

1P031. **How the lack of vision impacts on perceived verticality.** *Luigi F Cuturi, Monica Gori*

1P032. **Word and text processing in developmental prosopagnosia.** *Jeffrey Corrow, Sherryse Corrow, Cristina Rubino, Brad Duchaine, Jason JS Barton*

1P033. **Dysfunction of parvo-systems and its stimulation in patients with schizophrenia with early stage of the disease.** *Svetlana V Muravyova, Galina Moiseenko, Marina Pronina, Eugene Shelepin, Yuriy Shelepin*

1P034. **Impaired cognitive functioning in first-episode patients.** *Maya Roinishvili, Mariam Oqruashvili, Tinatin Gamkrelidze, Michael Herzog, Eka Chkonia*

1P035. **Inverted saccade adaptation in Parkinson's disease.** *Mark R Harwood, Alicia Perre-Dowd, Annabelle Blangero*

Eye movements

1P036. **Gaze fixation during the slowing down presentation of handwriting movement in adults with autism spectrum disorders.** *Anaïs Godde, Raphaelae Tsao, Carole Tardif*

1P037. **Effect of unconscious fear-conditioned stimuli on eye movements.** *Apoorva R Madipakkam, Marcus Rothkirch, Kristina Kelly, Gregor Wilbertz, Philipp Sterzer*

1P038. **The dynamics of gaze trajectory when imagining a falling object.** *Nuno A De Sá Teixeira, Heiko Hecht*

- 1P039. **Does conceptual quantity of words affect the spatial coding of saccade responses, like a SNARC effect?** *Alexandra Pressigout, Agnès Charvillat, Alexandra Fayel, Viktoriya Vitkova, Karine Doré-Mazars*
- 1P040. **Identifying information processing strategies during the picture completion test from eye tracking data.** *Ayano Kimura, Shinobu Matsunaga, Takanori Matsuno*
- 1P041. **The role of eye movements during image learning and recognition.** *Polina Krivykh, Galina Menshikova*
- 1P042. **Fixations on human face: cross-cultural comparison.** *Kristina I Ananyeva, Ivan Basyul, Alexander Demidov*
- 1P043. **Is the remote distractor effect on saccade latency greater when the distractor is less eccentric than the target?** *Soazig Casteau, Françoise Vitu, Robin Walker*
- 1P044. **The correlation between visual perception and verbal description of painting.** *Veronika Prokopenya, Elena Chernavina*
- 1P045. **Do sunglasses hide your feelings?** *Priscilla Heard*
- 1P046. **Planning functional grasps of tools. What can eye movements tell us about motor cognition?** *Agnieszka Nowik, Magdalena Reuter, Gregory Kroliczak*
- 1P047. **Testing the level of knowledge of a foreign language using Eye-Tracking technology.** *Maria Oshchepkova, Galina Menshikova*
- 1P048. **Eye movements in second language vocabulary acquisition.** *Anna Izmalkova, Irina Blinnikova, Sofia Kirsanova*

Faces

- 1P049. **Evolutionary Gradient Face Compositing using The Poisson Equation.** *Ruben Garcia-Zurdo*
- 1P050. **Combined TMS and fMRI demonstrates a Double dissociation between face and motor functional brain networks.** *David Pitcher, Daniel Handwerker, Geena Ianni, Peter Bandettini, Leslie Ungerleider*
- 1P051. **Spatiotemporal dynamics of view-sensitive and view-invariant face identity processing.** *Charles C Or, Joan Liu-Shuang, Bruno Rossion*
- 1P052. **Holistic Processing of Static and Rigidly Moving Faces.** *Mintao Zhao, Isabelle Bühlhoff*
- 1P053. **Face inversion reveals configural processing of peripheral face stimuli.** *Petra Kovács, Petra Hermann, Balázs Knakker, Gyula Kovács, Zoltán Vidnyánszky*
- 1P054. **Five Commonly Used Face Processing Tasks Do Not Measure The Same Construct.** *Elizabeth Nelson, Abhi Vengadeswaran, Charles Collin*
- 1P055. **The Timecourse of Expression Aftereffects.** *Nichola Burton, Linda Jeffery, Jack Bonner, Gillian Rhodes*
- 1P056. **Fast and objective quantification of face perception impairment in acquired prosopagnosia.** *Joan Liu-Shuang, Katrien Torfs, Bruno Rossion*
- 1P057. **Vertically oriented cues to face identification are susceptible to color manipulations.** *Kirsten Petras, Laurie Geers, Valerie Goffaux*
- 1P058. **The contribution of spatial transformations in the estimation of the psychological characteristics of people by facial expressions.** *Vladimir A Barabanshikov, Irina Besprozvannaya*
- 1P059. **Skilled face recognizers have higher contrast sensitivity in the right hemifield.** *Simon Faghel-Soubeyrand, Frédéric Gosselin*
- 1P060. **Face-responsive ERP components show time-varying viewing angle preferences.** *Anna L Gert, Tim C Kietzmann, Peter König*

- 1P061. **Interaction effect between length of nose, viewing angle of face, and gender in estimation of age.** *Takuma Takehara, Toyohisa Tanijiri*
- 1P062. **The Improved Discrimination on Facial Ethnicity Induced by Face Adaptation.** *Miao Song*
- 1P063. **Painted features transform the shape of 3-D surfaces they are painted on – the case of faces.** *Thomas V Papathomas, Attila Farkas*

Grouping

- 1P064. **Center-surround unconscious visual contour integration.** *Hongmei Yan, Huiyun Du, Xiaoqiao Tang*
- 1P065. **The influence of a (physical or illusory) barrier on motion correspondence.** *Elisabeth Hein, Bettina Rolke*
- 1P066. **The Global Precedence Effect is not affected by background colour.** *Jan L Souman, Sascha Jenderny, Tobias Borra*
- 1P067. **Neurophysiological investigation of the role of (reflection) symmetry in figure-ground segregation.** *Giulia Rampone, Marco Bertamini, Alexis David James Makin*
- 1P068. **Local and Global Amodal Completion: Revealing Separable Processes Using A Dot Localization Method.** *Susan B Carrigan, Philip Kellman*
- 1P069. **Task-dependent effect of similarity grouping and proximity on visual working memory.** *Jiehui Qian, Shengxi Liu*
- 1P070. **No evidence for perceptual grouping in the absence of visual consciousness.** *Dina Devyatko, Shahar Sabary, Ruth Kimchi*
- 1P071. **The effect of color contrast on Glass pattern perception.** *Yih-Shiuan Lin, Chien-Chung Chen*
- 1P072. **Modelling the Effects of Spatial Frequency Jitters in a Contour Integration Paradigm.** *Axel Grzymisch, Malte Persike, Udo Ernst*
- 1P073. **A model of border-ownership assignment accounting for figure/hole perception.** *Masayuki Kikuchi*

Illusions

- 1P074. **The simplest visual illusion of all time? The folded paper-size illusion.** *Claus-Christian Carbon*
- 1P075. **Shooting at the Ponzo - effects and aftereffects.** *Valeriia Karpinskaia, Vsevolod Lyakhovetskii*
- 1P076. **Interest is evoked by semantic instability and the promise of new insight.** *Claudia Muth, Claus-Christian Carbon*
- 1P077. **Tell me about your Ponzo and I will tell you who you are.** *Lukasz Grzeczowski, Aaron Clarke, Fred Mast, Michael Herzog*
- 1P078. **Influences on the perception of the morphing face illusion.** *Sandra Utz, Claus-Christian Carbon*
- 1P079. **The PhiTOP Gelatinous Ellipsoid Effect.** *Kenneth Brecher*
- 1P080. **Effects of edge orientation and configuration on sliding motion.** *Nobuko Takahashi, Shinji Yukumatsu*
- 1P081. **How to turn unconscious signals into visible motion: Modulators of the Motion Bridging Effect.** *Maximilian Stein, Robert Fendrich, Uwe Mattler*
- 1P082. **The Greenback Illusion: a new geometrical illusion.** *Kenpei Shiina*
- 1P083. **Perceptual filling-out induced by a preceding mask on the stimulus boundary.** *Shuichiro Taya*

1P084. Fluttering-heart Illusion Occurs in Stimuli Consisting of Only Contours.

Kazuhisa Yanaka, Masahiro Suzuki, Toshiaki Yamanouchi, Teluhiko Hilano

1P085. Vibration condition that strengthens the illusory motion of the Ouchi illusion.

Teluhiko Hilano, Kouki Kikuchi

1P086. Straight edges are not enough to overcome the tilt blindness.

Takashi Ueda, Takashi Yasuda, Kenpei Shiina

1P087. Effect of eccentricity on the direction of gradation-induced illusory motion.

Soyogu Matsushita

1P088. Curvy is the new straight: Kanizsa triangles.

Timea Gintner, Prashant Aparajeya, Frederic Fol Leymarie, Ilona Kovács

Neural Models & Computational

1P089. Boundary extension and image similarity via convolutional network:

expanded views are more similar to the original. *Jiri Lukavsky*

1P090. Contrast effect on visual spatial summation of different cell categories in cat V1. *Ke Chen*

1P091. A Retinal Adaptation Model for HDR Image Compression. *Yongjie Li, Xuan Pu, Hui Li, Chaoyi Li*

1P092. Revealing alpha oscillatory activity using Voltage-Sensitive Dye Imaging (VSDI) in Monkey V1. *Sandrine Chemla, Frédéric Chavane, Rufin VanRullen*

1P093. Image Reconstruction from Neural Responses: what can we learn from the analytic inverse? *Marina Martinez-Garcia, Borja Galan, Jesús Malo*

1P094. Mapping the visual brain areas susceptible to phosphene induction through brain stimulation. *Lukas F Schaeffner, Andrew Welchman*

1P095. Feedback signals from the local surround are combined with feedforward information in human V1. *Yulia Revina, Lucy Petro, Sebastian Blum, Nikolaus Kriegeskorte, Lars Muckli*

1P096. Perceptual Grouping and Feature Based Attention by Firing Coherence Based on Recurrent Connections. *August Romeo, Hans Supér*

1P097. Spiking–neuron model for the interaction between visual and motor representations of action in premotor cortex. *Mohammad Hovaidi Ardestani, Martin A. Giese*

1P098. Decoding eye-of-origin signals in and beyond primary visual cortex. *Milena Kaestner, Ryan T. Maloney, Marina Bloj, Julie M. Harris, Alex R. Wade*

1P099. Reducing Visually Objectionable Noise in Hyperspectral Renderings. *Thomas S Maier, Roland Fleming, Fran González García*

1P100. Spatial phase coherence analysis reveals discrete cortical modules within early visual cortex. *Nicolás Gravel, Ben Harvey, Serge O. Dumoulin, Remco Renken, Frans W. Cornelissen*

1P101. Integrated computational model of salience and semantic similarity on spatial attention. *Ekaterina Gordienko, William Joseph Macinnes*

1P102. A Multi-Task Neurodynamical Model of Lateral Interactions in V1: Visual Saliency of Colour Images. *David Berga, Xavier Otazu*

1P103. Multi-Spatial-Frequency-Channel Processing in Retina. *Ilhyun Kim, Marcelo Bertalmio*

1P104. Model selection for prediction of Visually Induced Motion Sickness. *Shin Tabeta, Tohru Kiryu, Shigehito Tanahashi*

1P105. **A Model of Competitive Neural Network for Exogenous Visuospatial Orienting.** *Drazen Domijan*

1P106. **A Multi-Task Neurodynamical Model of Lateral Interactions in V1: Chromatic Induction.** *Xim Cerdá-Company, Xavier Otazu*

1P107. **Migration through evolution of the bottom-up saliency map from the optic tectum to the primary visual cortex.** *Li Zhaoping*

Objects/Recognition

1P108. **Sensitivity to Weight Changes of Others Depends on Personal Body Size.** *Anne Thaler, Michael N. Geuss, Simone C. Mölbert, Stephan Streuber, Katrin E. Giel, Michael J. Black, Betty J. Mohler*

1P109. **What is a haptic object?** *Rebecca Lawson, Stefano Cecchetto*

1P110. **Visual second-order features and objects categorization.** *Daria Alekseeva, Vitaly Babenko, Denis Yavna*

1P111. **Motion induced distortion of shapes.** *Nika Adamian, Patrick Cavanagh*

1P112. **Optical information for accurate perception of objects with orientation change.** *Jing Pan, Ned Bingham, Geoffrey Bingham*

1P113. **Speed of color recognition depends on Gestalt representations of cause, consequence, condition, and concession.** *Magda L Dumitru, Gitte Joergensen*

1P114. **Disrupting object identification with iridescence.** *Joanna Hall, Karin Kjærsmo, Nick Scott-Samuel, Innes Cuthill, Heather Whitney*

1P115. **Estimation of the individual tendencies in the subjective Kansei evaluation of three-dimensional shapes.** *Kazuhito Muto, Sho Hashimoto, Kazuaki Tanaka, Kenji Katahira, Noriko Nagata*

1P116. **Tuning to radial frequency patterns in human visual cortex.** *Samuel J Lawrence, Richard Vernon, Bruce Keefe, Andre Gouws, Alex Wade, Declan McKeefry, Antony Morland*

1P117. **Exploring curvature representations in LO-1, LO-2 and shape-selective Lateral Occipital Cortex (LO).** *Richard J W Vernon, Samuel Lawrence, Andre Gouws, Bruce Keefe, Antony Morland*

1P118. **Perceived rigidity is not enough to explain why shape from specular flow in 3D-rotating objects is difficult.** *Dicle N Dovencioglu, Maarten Wijntjes, Ohad Ben-Shahar, Katja Doerschner*

1P119. **Different electrophysiological correlates for conscious detection and higher-level consciousness.** *Mika Koivisto, Simone Grassini, Niina Salminen-Vaparanta, Antti Revonsuo*

1P120. **Familiarity effect in ERP study of face and word perception.** *Daria Podvigina, Veronika Prokopenya*

1P121. **Object selective areas in the lateral occipital complex preferentially process high spatial frequencies.** *Hinke N Halbertsma, Minke de Boer, Frans Cornelissen, Barbara Nordhjem*

1P122. **Modulating the role of magnocellular input on object recognition with the use of tDCS.** *Jorge Almeida, Joana Nogueira, Andreia Freixo*

Perception & Action

1P123. **Distributed Representations – Interplay between internal and external actions in the Tower of Hanoi task.** *Gregor Hardiess, Marcel Dorer, Hanspeter A. Mallot*

- 1P124. **Quick spatial reorientation after teleportation: ERP evidence.** *Agoston Torok, Andrea Kobor, Gyorgy Persa, Peter Galambos, Peter Baranyi, Valeria Csepe, Ferenc Honbolygo*
- 1P125. **Extending the boundaries of Weber's Law in grasping.** *Tzvi Ganel*
- 1P126. **Men's visual attention to and perceptions of women's dance movements.** *Susanne Röder, Claus-Christian Carbon, Todd K. Shackelford, Katarzyna Pisanski, Bettina Weege, Bernhard Fink*
- 1P127. **Beyond humans: contagious yawning in primates elicited by the visual perception of a non-human agent - an android.** *Ramiro M Joly-Mascheroni, Bettina Forster, Miquel Llorente, Beatriz Calvo-Merino*
- 1P128. **Conscious and Unconscious Priming Influence on Sense of Agency.** *Almara Kulieva, Maria Kuvaldina*
- 1P129. **Body and eye movements during interactions with avatars in virtual environments.** *Olga Saveleva, Denis V. Zacharkin, Galina Ya. Menshikova*
- 1P130. **How is the remembered area of scenes affected by location shift in object-centered and ego-centered coordinates?** *Takuma Murakoshi, Eiji Kimura, Makoto Ichikawa*
- 1P131. **Perceiving social intention in motor action.** *François Quesque, Yann Coello*
- 1P132. **Angle rounding and finger shrinkage when watching and touching a partially occluded corner.** *Walter Gerbino, Giovanni Lecci, Joanna Jarmolowska, Carlo Fantoni*
- 1P133. **Personality Predictors of Ideomotor Response in a Detection Task.** *Jay A Olson, Amir Raz*
- 1P134. **Visual processes dominate perception and action during social interactions.** *Laura Fademrecht, Heinrich H. Bühlhoff, Stephan de la Rosa*
- 1P135. **The power of self in action: Prioritized processing of self-relevant stimuli on a perceptual-matching task extends a performance advantage to response execution.** *Clea E Desebrock, Jie Sui, Charles Spence*
- 1P136. **The role of action in the formation of visual representations of both actors and observers.** *Dejan Draschkow, Melissa L.-H. Võ*

Visual memory & Cognition

- 1P137. **A strategy to improve arithmetical performance in four day-old domestic chicks (*Gallus gallus*).** *Maria Loconsole, Rosa Rugani, Lucia Regolin*
- 1P138. **The time course of image memorability.** *Lore Goetschalckx, Johan Wagemans*
- 1P139. **Is it a bird? Is it a plane? Evidence from cognitive science about detection and identification of objects during scene viewing.** *Javier Ortiz, Bruce Milliken, Juan Lupiáñez*
- 1P140. **Numerosity-evoked fMRI activity patterns in human intra-parietal cortex reflect individual differences in behavioral numerical acuity.** *Evelyn Eger, Gabriel Lasne, Stanislas Dehaene, Manuela Piazza, Andreas Kleinschmidt*
- 1P141. **Subordinated function of visual perception in conscious semantic cognitive tasks.** *Sergei Artemenkov*
- 1P142. **The role of categorization in the cognitive process of a person moving in an interior space.** *Anna Losonczy, Anett Rago, Levente Gulyás, Klára Sarbak, Attila Kurucz, Andrea Dúll*
- 1P143. **Metacontrast masking applied to lexical stimuli.** *Nicolas Becker, Uwe Mattler*
- 1P144. **Individual Perception Style Affects Implicit Memory.** *Kyoko Hine*
- 1P145. **Remembering without really trying.** *Volodya Yakovlev, Shaul Hochstein*

- 1P146. **Effects of geometrical shape on the retrieval of spatial location.** *Elena Azañón, Metodi Siromahov, Matthew R Longo*
- 1P147. **Space-Valence Priming with Subliminal and Supraliminal Words: ERP Investigations.** *Shah Khalid*

TUESDAY TALKS

Morning

Symposium 3. New directions in active vision - interacting with complex environments (organizers: Anna Montagnini and Eli Brenner; Room 1)

- 9:00-9:20 - [21S101] **Covert attention within the foveola.** *Martina Poletti, Michele Rucci, Marisa Carrasco*
- 9:20-9:40 - [21S102] **Enhanced sensitivity to scene symmetry as a consequence of saccadic spatio-temporal sampling.** *Andrew I Meso, Jason Bell, Guillaume S. Masson, Anna Montagnini*
- 9:40-10:00 - [21S103] **Perceptual re-calibration through transsaccadic change.** *Matteo Valsecchi, Karl Gegenfurtner*
- 10:00-10:20 - [21S104] **Why do we follow targets with our eyes during interception?** *Cristina de la Malla, Jeroen B. J. Smeets, Eli Brenner*
- 10:20-10:40 - [21S105] **The role of allocentric information when walking towards a goal.** *Danlu Cen, Simon Rushton, Seralynne Vann*
- 10:40-11:00 - [21S106] **From multisensory integration to new rehabilitation technology for visually impaired children and adults.** *Monica Gori, Giulia Cappagli, Elena Cocchi, Gabriel Baud-Bovy, Sara Finocchietti*

Symposium 4. Color: Cone Opponency and Beyond (organizer: Rhea Eskew; Room 2)

- 9:00-9:20 - [21S201] **Colour Physiology in Subcortical Pathways.** *Paul R Martin*
- 9:20-9:40 - [21S202] **Color as a tool to uncover the organizational principles of object cortex in monkeys and humans.** *Rosa Lafer-Sousa, Nancy Kanwisher, Bevil Conway*
- 9:40-10:00 - [21S203] **Neural processing of color in higher cortical areas.** *Hidehiko Komatsu*
- 10:00-10:20 - [21S204] **Understanding color preferences: from cone-contrasts to ecological associations.** *Karen B Schloss*
- 10:20-10:40 - [21S205] **Color Psychophysics in the Distal Stimulus.** *David Brainard*

Talks 8. Scene perception (chair: Karla Evans; Room 3)

- 9:00 to 9:15 - [21T301] **Fast figure-ground organization in visual cortex for complex natural scenes.** *Rüdiger von der Heydt, Jonathan R. Williford*
- 9:15 to 9:30 - [21T302] **Serial dependence in context: the role of summary statistics.** *Mauro Manassi, Wesley Chaney, Alina Liberman, David Whitney*
- 9:30 to 9:45 - [21T303] **Responses of macaque ganglion cells to natural scenes: spatial and temporal factors.** *Barry Lee, Manuel Schottdorf*
- 9:45 to 10:00 - [21T304] **Towards matching the peripheral visual appearance of arbitrary scenes using deep convolutional neural networks.** *Thomas S Wallis, Christina M. Funke, Alexander S. Ecker, Leon A. Gatys, Felix A. Wichmann, Matthias Bethge*
- 10:00 to 10:15 - [21T305] **A numerosity-processing network throughout human association cortex.** *Ben Harvey, Serge Dumoulin*

- 10:15 to 10:30 - [21T306] **Neuronal correlates of gist processing.** *Lucy J Spencer, Alex Wade, Karla Evans*
- 10:30 to 10:45 - [21T307] **Giessen's hyperspectral images of fruits and vegetables database (GHIFVD).** *Robert Ennis, Matteo Toscani, Florian Schiller, Thorsten Hansen, Karl Gegenfurtner*
- 10:45 to 11:00 - [21T308] **Semantic integration without semantics? Meaningless synthesized scenes elicit N400 responses to semantically inconsistent objects.** *Melissa Vö, Tim Lauer, Tim Cornelissen*

Midday

Talks 9. Decision Making (chair: Kielan Yarrow; Room 1)

- 14:00 to 14:15 - [22T101] **Confidence levels during perceptual decision-making are discrete.** *Andrei Gorea, Matteo Lisi, Gianluigi Mongillo*
- 14:15 to 14:30 - [22T102] **Spatio-temporal probability integration during visual discrimination.** *József Arato, József Fiser*
- 14:30 to 14:45 - [22T103] **Informational value biases dominance in binocular rivalry.** *Wolfgang Einhäuser, Stephan Koenig, Harald Lachnit*
- 14:45 to 15:00 - [22T104] **Classification videos reveal the information used to respond to an opponent's tennis stroke.** *Sepehr Jalali, Sian Martin, Joshua Solomon, Kielan Yarrow*
- 15:00 to 15:15 - [22T105] **Choice bias contributes little to perceptual decision making in appearance tasks.** *Daniel Linares, Joan López-Moliner*
- 15:15 to 15:30 - [22T106] **Effects of motion predictability on anticipatory and visually-guided eye movements: a common prior for sensory processing and motor control?** *Anna Montagnini, Jean-Bernard Damasse, Laurent Perrinet, Guillaume Masson*

Talks 10. Clinical (chair: Jutta Billino; Room 2)

- 14:00 to 14:15 - [22T201] **Visual BOLD response in late-blind subjects with Argus II retinal prosthesis.** *Elisa Castaldi, Guido Marco Cicchini, Laura Cinelli, Laura Biagi, Stanislao Rizzo, Maria Concetta Morrone*
- 14:15 to 14:30 - [22T202] **OpenEyeSim: a biomechanical model for studying oculomotor control under normal and abnormal conditions.** *Alexander Priamikov, Bertram Shi, Maria Fronius, Jochen Triesch*
- 14:30 to 14:45 - [22T203] **The brain does not fill-in the details: filling-in magnitude depends on the spatial frequency content of the region surrounding an artificial scotoma.** *Joana C Carvalho, Remco Renken, Nomdo Jansonius, Frans Cornelissen*
- 14:45 to 15:00 - [22T204] **Improvement of vision after short-term deprivation of the amblyopic eye in adult patients.** *Claudia Lunghi, Alessandro Sale, Antonio Lepri, Angela Sframeli, Aris Dendramis, Domenico Lisi, Martina Lepri, Maria Concetta Morrone*
- 15:00 to 15:15 - [22T205] **Visual Behavior on Natural Static Images in Patients with Retinitis Pigmentosa.** *Ricardo Ramos Gameiro, Kristin Jünemann, Anika Wolff, Anne Herbig, Peter König, Michael Hoffmann*

15:15 to 15:30 - [22T206] **Motion-based segmentation is impaired in developmental dyslexia.** *Richard Johnston, Nicola J Pitchford, Neil W Roach, Timothy Ledgeway*

Afternoon

Talks 11. **Motion** (chair: Ignacio Serrano-Pedraza; Room 1)

- 17:00 to 17:15 - [23T101] **High global motion sensitivity, associated with good maths ability, has white-matter and grey-matter correlates MRI evidence from tract-based spatial statistics.** *Oliver Braddick, Janette Atkinson, Natacha Akshoomoff, Erik Newman, Lauren Curley, Anders Dale, Terry Jernigan*
- 17:15 to 17:30 - [23T102] **A unified model of 1D and 2D motion processing.** *Alan Johnston*
- 17:30 to 17:45 - [23T103] **Combining autistic traits and sensory thresholds to predict individual differences in perceived speed for two different motion phenomena.** *Tom C Freeman, Zoe Meredith, Rebecca McMillin, Georgie Powell*
- 17:45 to 18:00 - [23T104] **Retinotopic information is rendered invisible by non-retinotopic processing.** *Marc M Lauffs, Haluk Ögmen, Michael H Herzog*
- 18:00 to 18:15 - [23T105] **Perceptual gap closing induced by motion.** *Patrick Cavanagh, Nika Adamian, Marianne Duyck, Tatjana Seizova-Cajic*
- 18:15 to 18:30 - [23T106] **Low-level mediation of directionally specific motion after-effects: motion perception is not necessary.** *Michael J Morgan, Joshua Solomon*

Talks 12. **Colour** (chair: Sérgio Nascimento; Room 2)

- 17:00 to 17:15 - [23T201] **Factors underlying individual differences in photopic and scotopic spectral luminous efficiency functions obtained from a century of archival data.** *David H Peterzell, Donald MacLeod, Vicki Volbrecht, Michael Crognale, Kara Emery, Michael Webster*
- 17:15 to 17:30 - [23T202] **Scotopic Inhibition in the Light-Adapted ERG?** *Christopher W Tyler*
- 17:30 to 17:45 - [23T203] **Hue, slew rates, temporal filters and harmonics.** *Andrew Stockman, Caterina Ripamonti, Andrew Rider, Peter West, Bruce Henning*
- 17:45 to 18:00 - [23T204] **Individual differences in the perception of surface properties.** *Christoph Witzel, Sabrina Hansmann-Roth, J. Kevin O'Regan*
- 18:00 to 18:15 - [23T205] **Thresholds for discriminating saturation are higher than those for discriminating hue.** *Marina Danilova, J Mollon*
- 18:15 to 18:30 - [23T206] **The hue of threshold-level tests compared to a six-mechanism model of chromatic detection.** *Rhea T Eskew, Safiya Lahlaf, Timothy Shepard*

TUESDAY POSTERS

Adaptation

- 2P001. **Does surprise enhancement or repetition suppression explain visual mismatch negativity?** *Catarina Amado, Gyula Kovács*
- 2P002. **Spatial factors underlying curvature detection.** *Marie Morita, Takao Sato*
- 2P003. **Modelling Chromatic Adaptation using Unique Hues.** *Tushar Chauhan, Sophie Wuergler*
- 2P004. **Vergence is limited by adaptation.** *Elizabeth Fast, Linus Holm, Linda McLoon, Stephen Engel*
- 2P005. **An adaptable, context-dependent object size representation in human parietal cortex.** *Stephanie Kristensen, Alessio Fracasso, Serge Dumoulin, Jorge Almeida, Ben Harvey*
- 2P006. **Effect of orthogonal adaptation on the perceived velocity of multidirectional random dot stimuli at different speeds.** *Nikos Gekas, Pascal Mamassian*
- 2P007. **Visual similarity modulates visual size contrast.** *Nicola Bruno, Olga Daneyko, Gioacchino Garofalo, Lucia Riggio*
- 2P008. **Adaptation to eyeglasses with fully-corrected lenses: Assessment of wearing feeling and depth distortion.** *Yasuaki Tamada, Takumi Ono, Ryuto Fujie, Hiroshi Kaneko, Masayuki Sato*
- 2P009. **Temporal Expectations and Stimulus Repetition: An Event-Related Potential Study.** *Daniel Feuerriegel, Scott Coussens, Owen Churches, Hannah Keage*
- 2P010. **The time course of visual adaptation is adaptable.** *Sarah Maddison, Neil Roach, Ben Webb*
- 2P011. **Attention and the Motion Aftereffect.** *Laura Bartlett, Wendy Adams, Erich Graf*
- 2P012. **Effects of attention on form perception and form-motion integration from static and dynamic Glass patterns.** *Andrea Pavan, Matthew Foxwell, George Mather*
- 2P013. **Sharpening static spatial vision by adapting to flicker.** *Derek Arnold, Jeremy D. Williams, Natasha E. Phipps, Melvyn A. Goodale*

Attention: Search

- 2P014. **Proactive control mechanisms in visual search.** *Marco A Petilli, Francesco Marini, Roberta Daini*
- 2P015. **Negative emotional valence intensity modulates visual search performance.** *Yasuhiro Takeshima*
- 2P016. **Modifying detectability map for formal models of visual search.** *Filip Dechterenko, Wilson Geisler*
- 2P017. **Temporal attention aids the selection of targets in a visual search task: An ERP study.** *Bettina Rolke, Verena Carola Seibold*
- 2P018. **Search Advantage by Color Repetition Priming and Distracter Preview.** *Sophie Lukes, Malte Persike, Guenter Meinhardt*
- 2P019. **Active Ignoring by Color Repetition Priming.** *Günter Meinhardt, Sophie Lukes, Malte Persike*
- 2P020. **Human foraging in dynamic versus static displays.** *Ian M Thornton, Claudio de S'perati, Árni Kristjánsson*
- 2P021. **Visual search asymmetry between photographs and illustrations of animals and man-made objects.** *Kohske Takahashi, Katsumi Watanabe*

- 2P022. **Forcing strategy change: Time limited visual foraging reveals template switches.** *Tómas Kristjánsson, Ian M. Thornton, Árni Kristjánsson*
 2P023. **Collinear search impairment is luminance contrast invariant.** *Chia-huei Tseng, Chien-chung Chen*
 2P024. **Individual Differences in Change Blindness.** *Nora Andermane*

Binocular/3D

- 2P025. **Relationship between the stereoscopic feeling and weave structure of carbon fiber woven fabric.** *Tomoko Awazitani, Aki Kondo, Sachiko Sukigara*
 2P026. **What Defeats Binocular Stereo?** *Kokichi Sugihara*
 2P027. **Stereoscopic viewing induces changes in the accommodation-vergence cross-coupling.** *Pascaline Neveu, Corinne Roumes, Matthieu Philippe, Philippe Fuchs, Anne-Emmanuelle Priot*
 2P028. **Apparent depth in glass, bronze, and nickel mirrors: Color effects.** *Atsuki Higashiyama, Seiichi Tsuinashi*
 2P029. **Reaction times to changes in binocular correlation are consistent with the fusional hysteresis effect.** *Gábor Horváth, János Radó, András Czigler, Vanda Nemes, Diána Fülöp, Sára Pásztor, Béla Török, Ilona Kovács, Péter Buzás, Gábor Jandó*
 2P030. **Effect of the field of view on accommodation stimulated with a volumetric badal optometer.** *Carles Otero, Mikel Aldaba, Carme Alavedra-Ortiz, Jaume Pujol*
 2P031. **A geodesic on a piecewise smooth surface and a piecewise smooth curve as a geodesic on a surface.** *Tadamasa Sawada, Denis Volk*
 2P032. **Convergent Stereo-Cameras affect Distance and Depth Perception.** *Cyril Vienne, Justin Plantier, Anne-Emmanuelle Priot*
 2P033. **Eye movements during perception of 3D scenes using hologram and stereo image stimuli.** *Taina M Lehtimäki, Mikko Niemelä, Risto Näsänen, Ronan G. Reilly, Thomas J. Naughton*
 2P034. **Comparing stereotests: the TNO test overestimates stereoacuity.** *Kathleen Vancleef, Jenny Read, William Herbert, Nicola Goodship, Maeve Woodhouse, Ignacio Serrano-Pedraza*
 2P035. **Eye Fixation during static multi-object attention in 3D: Evidence for perspective scaling of attention?** *Dhanraj Vishwanath, Giedre Zlatkute*
 2P036. **Interaction among binocular disparity, motion parallax, and relative size cues for perceiving large depth.** *Yuta Ozawa, Tamada Yasuaki, Sato Masayuki*
 2P037. **Vergence dynamics in stereoscopic displays are related to fusional reserves.** *Anne-Emmanuelle Priot, Cyril Vienne, Bertrand Saussard, Justin Plantier, Pascaline Neveu*
 2P038. **Representation of visual distance in the brain.** *David T Field, Charlotte Goodwin*
 2P039. **The motion/pursuit law's limit on depth from motion parallax.** *Mark Nawrot, Grant Christianson, Keith Stroyan*
 2P040. **Binocular summation in Pinna illusion.** *Pei-Yin Chen, Chien-Chung Chen, Lothar Spillmann*
 2P041. **Separate recalibration of perception of distance and object size in virtual environment.** *Shigeaki Nishina*

Eye movements

- 2P042. **Gaze strategies in peripheral motion detection: On the superiority of fixations over smooth pursuit eye movements (SPEM).** *André Klostermann, Christian Vater, Ernst-Joachim Hossner*

- 2P043. **Novelty modulates oculomotor learning.** *Annegret Meermeier, Svenja Gremmler, Markus Lappe*
- 2P044. **Modeling the effect of dynamic contingencies on anticipatory eye movements.** *Jean-Bernard Damasse, Anna Montagnini, Laurent U Perrinet*
- 2P045. **Voluntary tracking the moving clouds: Effects of speed variability on human smooth pursuit.** *Kiana Mansour Pour, Laurent Perrinet, Guillaume Masson, Anna Montagnini*
- 2P046. **Spatial frequency selectivity of microsaccadic suppression.** *Chris Scholes, Neil W Roach, Paul V McGraw*
- 2P047. **Information uptake around the time of saccades.** *Christian Wolf, Alexander Schütz*
- 2P048. **Visual attention saccadic models: taking into account global scene context and temporal aspects of gaze behaviour.** *Antoine Coutrot, Olivier Le Meur*
- 2P049. **Fluctuations in both accommodation and fixational eye movements: effect of distance and peripheral cues.** *Josselin Gautier*
- 2P050. **Transsaccadic feature prediction is location specific.** *Arvid Herwig, Katharina Weiß, Werner X. Schneider*
- 2P051. **The blindspot is remapped before eye movements.** *Daniel T Smith, Mark Avery*
- 2P052. **Stimulus characteristics and presentation time do not influence saccadic inhibition of foveal and peripheral presented distractors in visual fixations.** *Johannes Schulz, Sebastian Pannasch*
- 2P053. **Disentangling fixation duration and saccadic planning using gaze dependent guided viewing.** *Benedikt V Ehinger, Lilli Kaufhold, Peter König*
- 2P054. **Trans-saccadic integration and visual masking.** *Alexander C Schütz*
- 2P055. **Smooth-Pursuit Eye–Gaze interface tracking: “Open-loop” versus “Closed-loop” Tracking Accuracy.** *Michael Wagner, Tomer Elbaum, Assaf Botzer*
- 2P056. **Interaction between pursuit and saccades for speed judgements.** *Alexander Goettker, Karl Gegenfurtner*
- 2P057. **Static cues for mirror-glass discrimination explored by gaze distribution.** *Maki Tsukuda, Roman Bednarik, Markku Hauta-Kasari, Shigeki Nakauchi*
- 2P058. **Perceptual localization versus oculomotor behaviour.** *Eva R Joosten, Thérèse Collins*
- 2P059. **The saccadic global effect with sub-threshold stimuli.** *Sabrina Aït Amiri, Delphine Massendari, Françoise Vitu, Thérèse Collins*
- 2P060. **Eye movements during gaze-contingent spatial-frequency filtering of real-world scenes: Effects of filter location, cutoff, and size.** *Anke Cajar, Ralf Engbert, Jochen Laubrock*
- 2P061. **The pursuit of covert attention in change blindness.** *Vasili Marshhev, Andrey Chetverikov, Maria Kuvaldina*
- 2P062. **Statistics of microsaccades indicate early frequency effects during visual word recognition.** *André Krügel, Ralf Engbert*
- 2P063. **Temporal Dynamics of Microsaccades and Saccades: Stochasticity or Rhythmicity?** *Roy Amit, Dekel Abeles, Izhar Bar-Gad, Shlomit Yuval-Greenberg*

Lightness, brightness & contrast

- 2P064. **Combination of motion and luminance defined edges: a cross-orientation masking study.** *Nilufar Razmi*

- 2P065. **Visual dominance for darks increases with low light and optical blur.** *Carmen Pons, Reece Mazade, Jianzhong Jin, Mitchell Dul, Qasim Zaidi, Jose-Manuel Alonso*
- 2P066. **The Glare Effect Test (GET): a tool to assess brightness or discomfort glare?** *Alessio Facchin, Roberta Daini, Daniele Zavagno*
- 2P067. **Pupillary responses to perceived brightness require visual awareness.** *Irene Sperandio, Nikki Bond, Paola Binda*
- 2P068. **Canonical Material and Illumination Confounds.** *Fan Zhang, Huib de Ridder, Sylvia Pont*
- 2P069. **Quantifying the simultaneous contrast for gloss and luminance.** *Sabrina Hansmann-Roth, Pascal Mamassian*
- 2P070. **The effect of luminance gradient induced luminosity and darkness in static and dynamic patterns on pupil diameter.** *Daniele Zavagno, Luca Tommasi, Bruno Laeng*
- 2P071. **Anchoring theory outmatches ODOG in tests of four lightness illusions.** *Elias Economou, Alexandros Dimitriadis, Suncica Zdravkovic, Alan Gilchrist*
- 2P072. **The threat bias for fearful expressions is evident in apparent contrast.** *Abigail L Webb, Paul B Hibbard*
- 2P073. **Proposal for a glare risk scale along a specific route in daylight hours.** *Vincent Boucher*
- 2P074. **Visual impression of the fabric while rotating.** *Megumi Yoshikawa, Aki Kondo, Chiaki Umebayashi, Toshinori Harada, Sachiko Sukigara*
- 2P075. **“Glowing gray” does exist: the influence of luminance ramps on whiteness perception.** *Yuki Kobayashi, Soyogu Matsushita, Kazunori Morikawa*
- 2P076. **Attention as a new parameter in modeling brightness induction.** *Kuntal Ghosh, Ashish Bakshi, Sourya Roy, Arijit Mallick, Kuntal Ghosh*
- 2P077. **Predicting Discomfort Glare.** *Leslie Guadron, Jeroen Goossens, Leonie Geerdinck, Maurice Donners*
- 2P078. **Perceived emotional valence of faces is affected by the spectral slope but not the brightness of the image.** *Claudia Menzel, Christoph Redies, Gregor Hayn-Leichsenring*
- 2P079. **Turning a horse into a unicorn: How a double dissociation can be produced by custom-made mask functions in a response priming experiment.** *Melanie Schröder, Thomas Schmidt*
- 2P080. **The brightness of noisy textures.** *Jose F Barraza, Andrés Martín*
- 2P081. **Influence of diffusibility of illumination on the impression of surface appearance.** *Yoko Mizokami, Yuki Nabae, Hirohisa Yaguchi*
- 2P082. **The direction of lightness induction is affected by grouping stability and intentionality.** *Tiziano Agostini, Mauro Murgia, Valter Prpic, Ilaria Santoro, Fabrizio Sors, Alessandra Galmonte*
- 2P083. **Mechanisms underlying simultaneous brightness induction: Early and innate.** *Dylan Rose, Sarah Crucilla, Amy Kalia, Peter Bex, Pawan Sinha*
- 2P084. **Receptive fields for illumination effects.** *Alejandro Lerer, Matthias Keil, Hans Supér*
- 2P085. **Common and different mechanisms behind White's illusion, simultaneous contrast illusion and the Mach band illusion.** *Mariann Hudák, János Geier*

Motion/Complex & Models

- 2P086. **Centre-Surround Antagonism in the Perception of Motion in Depth.** *Benjamin James Portelli, Alex Wade, Marina Bloj, Julie Harris*

2P087. **A new analytical method for characterizing nonlinear visual processes.**

Ryusuke Hayashi, Hiroki Yokoyama, Osamu Watanabe, Shin'ya Nishida

2P088. **Kinetic cue for perceptual discrimination between mirror and glass materials.**

Hideki Tamura, Hiroshi Higashi, Shigeki Nakauchi

2P089. **The interaction between image motion and surface optics in material perception.** *Alexandra C Schmid, Katja Doerschner*

2P090. **Sensitivity and precision to speed differences across kinetic boundaries.**

Bilyana Genova, Nadejda Bocheva, Miroslava Stefanova, Simeon Stefanov

2P091. **Computing the IOC from Gabor filter outputs: Component Level Feature Model version 2.** *Linda Bowns*

2P092. **Comparing perception of motion-in-depth for anti- and de-correlated random dot stimuli.** *Martin Giesel, Alex Wade, Marina Bloj, Julie M. Harris*

2P093. **Event-based model of vision: from ATIS to hierarchical motion processing.**

Mina A Khoei, Ryad Benosman

2P094. **Spatial context alters the contribution of motion-coding mechanisms to contrast detection.** *Alison Chambers, Neil Roach*

2P095. **Global motion influences the detection of motion-in-depth.** *Kait Clark, Simon Rushton*

2P096. **Gravity-specific representation in human EEG.** *Zhaoqi Hu, Ying Wang, Yi Jiang*

2P097. **Extra-retinal information for disambiguating depth from motion parallax.**

Kenzo Sakurai, Shihori Furukawa, William Beaudot, Hiroshi Ono

Multisensory

2P098. **Investigating the sound-induced flash illusion in people with ASD: An MEG study.** *Jason S Chan, Marcus Naumer, Christine Freitag, Michael Siniatchkin, Jochen Kaiser*

2P099. **Comparing Finger Movement Directions and Haptically Perceived Texture Orientation.** *Alexandra Lezkan, Knut Drewing*

2P100. **Musical training modulates brain recalibration of audiovisual simultaneity.** *Crescent Jicol, Frank Pollick, Karin Petrini*

2P101. **Comparing ambiguous apparent motion in tactile and visual stimuli.** *Harry H Haladjian, Stuart Anstis, Tatjana Seizova-Cajic, Mark Wexler, Patrick Cavanagh*

2P102. **Multisensory adaptation: How visual are haptics?** *Stefan J Breitschaft, Claus-Christian Carbon*

2P103. **The apparent elongation of a disk by its rotation as haptic phenomenon.** *Akira Imai, Yves Rossetti, Patrice Revol*

2P104. **Distinct Patterns of Bias in Visuo-haptic and Haptic-visual Slant Matching Tasks.** *Juan Liu, Hiroshi Ando*

2P105. **Hearing one's eye movements: effects of online eye velocity-based auditory feedback on smooth pursuit eye movements after transient target disappearance.** *Arthur Portron, Eric O. Boyer, Frederic Bevilacqua, Jean Lorenceau*

2P106. **Perceived audio-visual simultaneity as a function of stimulus intensity.** *Ryan Horsfall, Sophie Wuerger, Georg Meyer*

2P107. **Integrating vision and haptics for determining object location.** *Mark A Adams, Peter Scarfe, Andrew Glennerster*

2P108. **The clash of spatial representations: Modality switching knocks out the Simon effect.** *Manuela Ruzzoli, Leonor Castro, Salvador Soto-Faraco*

- 2P109. **The variation in the signaling frequency in a multisensory experimental study causes different modality effect on the quality and quantity of the equilibrium function.** *Denis Kozhevnikov*
- 2P110. **Perceived timing of multisensory events.** *Ljubica Jovanovic, Pascal Mamassian*
- 2P111. **Haptic shape adaptation is not object dependent.** *Catharina Glowania, Loes van Dam, Sarah Hanke, Marc Ernst*
- 2P112. **Comparing physiological arousal for visually and haptically explored stimuli.** *Roberta Etzi, Alberto Gallace*
- 2P113. **Visual mechanisms in the face-sensitive posterior superior temporal sulcus facilitate auditory-only speaker recognition in high levels of auditory noise.** *Corrina Maguinness, Katharina von Kriegstein*
- 2P114. **Response times in audio-visual cue-conflict stimuli.** *Baptiste Caziot, Pascal Mamassian*
- 2P115. **“When sounds speak faster than words”: Audiovisual semantic congruency enhances early visual object processing.** *Yi-Chuan Chen, Charles Spence*
- 2P116. **Effect of audio-visual source misalignment on timing performance.** *John Cass, Erik van der Burg, Tarryn Baldson*
- 2P117. **Adaptation to softness in haptic perception - temporal and spatial aspects.** *Anna Metzger, Knut Drewing*
- 2P118. **Spatiotemporal interactions in the ventriloquist effect.** *Min S Li, Massimiliano Di Luca*

Multistable

- 2P119. **Investigations of inter-ocular grouping for luminance- and contrast-modulated stimuli.** *Jan Skerswetat, Monika A. Formankiewicz, Sarah J. Waugh*
- 2P120. **Differential modulation of foreground and background in early visual cortex by feedback during bistable Gestalt perception.** *Pablo R Grassi, Natalia Zaretskaya, Andreas Bartels*
- 2P121. **Figure-ground organization interferes with the propagation of perceptual reversal in binocular rivalry.** *Naoki Kogo, Charlotte Spaas, Johan Wagemans, Sjoerd Stuit, Raymond van Ee*
- 2P122. **Hysteresis in Processing of Perceptual Ambiguity on Three Different Timescales.** *Jürgen Kornmeier, Harald Atmanspacher, Marieke van Rooij*
- 2P123. **Under what conditions is optokinetic nystagmus a reliable measure of perceptual dominance in binocular rivalry?** *Péter Soltész, Alexander Pastukhov, Jochen Braun, Ilona Kovács*
- 2P124. **Social influences on binocular rivalry.** *Arash Sahraie, Marius Golubickis, Aleksandar Visoikomogilski, Neil Macrae*
- 2P125. **Sensitivity and response criteria in reporting binocular rivalry.** *J. Antonio Aznar-Casanova, Manuel Moreno-Sánchez, Robert O'Shea*
- 2P126. **Differentiating aversive conditioning in bistable perception: avoidance of a percept vs. salience of a stimulus.** *Gregor Wilbertz, Philipp Sterzer*
- 2P127. **The interaction between temporal properties and spatial density of the mask on continuous flash suppression effectiveness.** *Weina Zhu, Jan Drewes, David Melcher*
- 2P128. **Attentional modulation of binocular rivalry.** *Manuel Moreno-Sánchez, J. Antonio Aznar-Casanova*

Visual memory & Cognition

- 2P129. **EEG correlates of memory contribution to perceptual disambiguation.** *Ellen Joos, Jürgen Kornmeier*
- 2P130. **Long- and short-term memory in repeated visual search.** *Margit Höfler, Iain D. Gilchrist, Anja Ischebeck, Christof Körner*
- 2P131. **Influencing working memory using social and non-social attention cues.** *Samantha Gregory, Margaret Jackson*
- 2P132. **Neural correlates of color working memory: An fMRI study.** *Naoyuki Osaka, Takashi Ikeda, Mariko Osaka*
- 2P133. **Working memory precision for emotional expressions of faces.** *Kaisu Ölander, Ilkka Muukkonen, Viljami Salmela*
- 2P134. **Verification of the reliability of MEG source localization using VBMEG in visual short-term memory.** *Mitsunobu Kunimi, Nobuo Hiroe, Maro G. Machizawa, Okito Yamashita*
- 2P135. **Color affects memory not totally but shortly.** *Haruyuki Kojima, Ayasa Imura*
- 2P136. **Rapid Access to Visual and Semantic Representations in Iconic Memory.** *Jasmina Vrankovic, Veronika Coltheart, Nicholas Badcock*
- 2P137. **Integration of context and object semantic representations during rapid categorisation within and between the cerebral hemispheres.** *Anaïs Leroy, Sylvane Faure, Sara Spotorno*
- 2P138. **The neural basis of serial behavioral biases in visual working memory.** *Joao M Barbosa, Christos Constantinidis, Albert Compte*
- 2P139. **Dissociable brain networks revealed single-repetition learning in Braille reading and Braille writing-from-memory.** *Lora Likova, Christopher Tyler, Kristyo Mineff, Laura Cacciamani, Spero Nicholas*
- 2P140. **Temporal Processing of Visual Information and Its Influence on Visual Working Memory Representation.** *Turgut Coşkun, Aysecan Boduroglu*
- 2P141. **Remembering who was where: Visuospatial working memory for emotional faces and the role of oculomotor behavior.** *Sara Spotorno, Margaret Jackson*
- 2P142. **Exploring the shape-specificity of memory biases in color perception.** *Toni P Saarela, Maria Olkkonen*
- 2P143. **Topography of memory interference in visuo-spatial working-memory.** *David S Bestue, João Barbosa, Albert Compte*
- 2P144. **Left extrastriate body area shows sensitivity to the meaning of symbolic gestures: evidence from fMRI adaptation.** *Agnieszka Kubiak, Gregory Kroliczak*
- 2P145. **To tell or not to tell: gender-related information modulates visual social cognition in healthy women and breast cancer patients.** *Alexander N Sokolov, Marina A Pavlova, Sara Y Brucker, Diethelm Wallwiener, Elisabeth Simoes*
- 2P146. **Does better encoding lead to slower forgetting?** *Haggai Cohen, Yoni Pertzov*
- 2P147. **Object maintenance beyond their visible parts in working memory: Behavioral and ERP evidence.** *Siyi Chen, Thomas Töllner, Hermann J. Müller, Markus Conci*

WEDNESDAY TALKS

Morning

Symposium 5. Dynamic sequential effects in visual perception (organizer: *Qasim Zaidi, Room 1*)

- 9:00-9:15 - [31S101] **The Continuity Field (CF): a mechanism for perceptual stability via serial dependence.** *David Whitney, Wesley Chaney, Jason Fischer, Alina Liberman, Mauro Manassi, Ye Xia*
- 9:15-9:30 - [31S102] **Humans exploit optimally serial dependencies.** *Guido Marco Cicchini, David Burr*
- 9:30-9:45 - [31S103] **Choice-induced aftereffects in visual perception.** *Alan A Stocker*
- 9:45-10:00 - [31S104] **Sequential integration in color identification.** *Qasim Zaidi, Zhehao Huang*
- 10:00-10:15 - [31S105] **Varieties of serial dependency in perceptual state variables.** *Mark Wexler*
- 10:15-10:30 - [31S106] **Change-related weighting of statistical information in visual sequential decision making.** *József Fiser, József Arató, Abbas Khani, Gregor Rainer*
- 10:30-11:00 - **Discussion**

Talks 13. Perception & Action (chair: *Jeroen Smeets, Room 2*)

- 9:00 to 9:15 - [31T201] **Differential attenuation of auditory and visual evoked potentials for sensations generated by hand and eye movements.** *Nathan Mifsud, Tom Beesley, Thomas Whitford*
- 9:15 to 9:30 - [31T202] **Action video game play improves eye-hand coordination in visuomotor control.** *Li Li, Rongrong Chen*
- 9:30 to 9:45 - [31T203] **Depth cues for allocentric coding of objects for reaching in virtual reality.** *Mathias Klinghammer, Immo Schütz, Gunnar Blohm, Katja Fiehler*
- 9:45 to 10:00 - [31T204] **Different usage of visual information for cursor and target in a target-tracking task.** *Loes C van Dam, Dan Li, Marc Ernst*
- 10:00 to 10:15 - [31T205] **Relative timing of visual and haptic information determines the size-weight illusion.** *Myrthe A. Plaisier, Irene Kuling, Eli Brenner, Jeroen B.J. Smeets*
- 10:15 to 10:30 - [31T206] **A shared numerical representation for action and perception.** *Irene Togoli, Giovanni Anobile, Roberto Arrighi, David Burr*
- 10:30 to 10:45 - [31T207] **Revealing nudging effects of floor patterns on walking trajectories in the real world.** *Ute Leonards, Hazel Doughty, Dima Damen*
- 10:45 to 11:00 - [31T208] **How your actions are coupled with mine: Adaptation aftereffects indicate shared representation of complementary actions.** *Dong-Seon Chang, Leonid Fedorov, Martin Giese, Heinrich Bülthoff, Stephan de la Rosa*

Midday

Talks 14. Multisensory (chair: Sophie Wuerger, Room 1)

- 14:00 to 14:15 - [32T101] **Serial dependence of multisensory relative timing judgements is not sensory adaptation.** *Warrick Roseboom, Darren Rhodes, Anil Seth*
- 14:15 to 14:30 - [32T102] **What smell? Loading visual attention can induce inattentional anosmia.** *Sophie Forster*
- 14:30 to 14:45 - [32T103] **Rapid recalibration to audiovisual asynchronies occurs unconsciously.** *Erik van der Burg, David Alais, John Cass*
- 14:45 to 15:00 - [32T104] **Integration of visual and tactile information during interval timing: Implications for internal clocks.** *Kielan Yarrow, Daniel Ball, Derek Arnold*
- 15:00 to 15:15 - [32T105] **Effect of blue light on audiovisual integration.** *Su-Ling Yeh, Yi-Chuan Chen, Li Chu*
- 15:15 to 15:30 - [32T106] **Spatiotemporal dynamics of visual and auditory attention revealed by combined representational similarity analysis of EEG and fMRI.** *Viljami R Salmela, Emma Salo, Juha Salmi, Kimmo Alho*

Talks 15. Computational models (chair: Li Zhaoping, Room 2)

- 14:00 to 14:15 - [32T201] **Neural model for adaptation effects in shape-selective neurons in area IT.** *Martin A Giese, Pradeep Kuravi, Ruffin Vogels*
- 14:15 to 14:30 - [32T202] **How the Brain Represents Statistical Properties.** *Shaul Hochstein*
- 14:30 to 14:45 - [32T203] **Inhibitory function and its contribution to cortical hyperexcitability and visual discomfort as assessed by a computation model of cortical function.** *Olivier Penacchio, Arnold J. Wilkins, Xavier Otazu, Julie M. Harris*
- 14:45 to 15:00 - [32T204] **Contextual interactions in grating plaid configurations are explained by natural image statistics and neural modeling.** *Udo A Ernst, Alina Schiffer, Malte Persike, Günter Meinhardt*
- 15:00 to 15:15 - [32T205] **Reinforcement learning: the effect of environment.** *He Xu, Michael Herzog*
- 15:15 to 15:30 - [32T206] **Combining sensory and top-down effects in a cortical model of lightness computation.** *Michael E Rudd*

Afternoon

Talks 16. Perceptual learning (chair: Miguel Eckstein, Room 1)

- 17:00 to 17:15 - [33T101] **Evidence for automatic generative learning in humans.** *Sára Jellinek, József Fiser*
- 17:15 to 17:30 - [33T102] **Transcranial Random Noise Stimulation (tRNS) boosts Perceptual Learning in reducing critical space of crowding.** *Giulio Contemori, Marcello Maniglia, Yves Trotter*
- 17:30 to 17:45 - [33T103] **Perceptual learning with minimal roles of early cortical plasticity and neuron-specific response reweighting.** *Cong Yu, Xin-Yu Xie*

- 17:45 to 18:00 - [33T104] **A novel method for studying internal representations of statistical distributions in feature space.** *Andrey Chetverikov, Gianluca Campana, Árni Kristjánsson*
- 18:00 to 18:15 - [33T105] **Face Training in Developmental Prosopagnosia.** *Sherryse L Corrow, Jodie Davies-Thompson, Kimberley Fletcher, Jeffrey C Corrow, Charlotte Hills, Brad Duchaine, Jason JS Barton*

Talks 17. Bistable perception (*chair: Ying Wang, Room 2*)

- 17:00 to 17:15 - [33T201] **Combined fMRI and eye-tracking based decoding of a bistable plaid motion perception.** *Madhura D Ketkar, Gregor Wilbertz, Philipp Sterzer*
- 17:15 to 17:30 - [33T202] **Sequential dependencies in suppression durations in continuous flash suppression.** *Pieter Moors, Timo Stein, Johan Wagemans, Raymond van Ee*
- 17:30 to 17:45 - [33T203] **Using binocular rivalry to tag competing tone sequences: towards a no-report paradigm for auditory multistability.** *Sabine Thomassen, Alexandra Bendixen, Wolfgang Einhäuser*
- 17:45 to 18:00 - [33T204] **Triggered reversals of perceptual dominance can occur without a corresponding change in visual awareness.** *Alexander Pastukhov, Jan-Nikolas Klanke*
- 18:00 to 18:15 - [33T205] **Regulating the dynamics of visual perception through entraining brain rhythms.** *Ying Wang, Xue Zhang, Qian Xu, Yi Jiang*

WEDNESDAY POSTERS

Art/Illusions

- 3P001. **Equidistant intervals in perspective photographs.** *Casper Erkelens*
- 3P002. **Mona Lisa is always happy – and only sometimes sad.** *Emanuela Liaci, Andreas Fischer, Ludger Tebartz van Elst, Jürgen Kornmeier*
- 3P003. **The big picture of aesthetics changes depending on the level of analysis.** *Uwe C Fischer, Claus-Christian Carbon, Danaja Rutar, Ivan Stojilovic, Stefan A. Ortlieb*
- 3P004. **Individual differences in aesthetic evaluations of visual arts: Focusing on the aesthetic dimension of value and art-expertise.** *Tatsuya Miyashita, Atsushi Kimura, Takashi Oka*
- 3P005. **Nobody likes a fake: Aesthetic value depends on perceived authenticity.** *Enne A Briemann, Denis Pelli*
- 3P006. **The visual attention when viewing colored and black-and-white movies.** *Pavel A Orlov, Daria Pavlova, Victor Yanchus, Vladimir Ivanov*
- 3P007. **An exploratory study on somaesthetics: judged beauty and difficulty of dance postures depends on the involvement of one's own body.** *Rob van Lier, Anja Bos-Roubos, Arno Koning*
- 3P008. **Structure of experience of beauty: General and category specific dimensions.** *Slobodan Marković, Vanja Čokorilo, Marija Trkulja, Tara Bulut, Katarina Rančić*
- 3P009. **Attention Modulation on Children's Representational Drawings.** *Chen I-Ping, Lu Ying-Rong*
- 3P010. **Evolution of symmetry in fractal tree and moss patterns.** *Tim Holmes, Helen Scott, Johannes Zanker*
- 3P011. **Mobile Eye tracking in the Gallery: Square murals by Sol LeWitt.** *Johannes M Zanker, van der Vliet Skye, Jasmina Stevanov, Tim Holmes*

Attention: Objects & Features

- 3P012. **Role of Action in modulating bottom-up attentional mechanisms.** *Kishore K Jagini, Meera Mary Sunny*
- 3P013. **Global Enhancement but Local Suppression in Feature Based Attention.** *Matthias M Mueller, Norman Forschack, Soeren Andersen*
- 3P014. **The role of overt attention in brain response to emotional images.** *Michał Kuniecki, Joanna Pilarczyk, Aleksandra Domagalik*
- 3P015. **Comparing the allocation of visual attention to features and spatial locations.** *Cody W McCants, Nick Berggren, Martin Eimer*
- 3P016. **Object IOR in dynamic displays is modulated by social stimuli.** *Robert Swalwell, Daniel Smith*
- 3P017. **Object-based attention in pigeons: Effects of enhanced independence between objects.** *Kazuki Fujii, Yukiko Hoshino, Maki Katsube, Tomokazu Ushitani*
- 3P018. **Fear improves unconscious visual processing of coarse low spatial frequency information.** *Manon Mulckhuyse, Maria Lojowska, Erno Hermans, Karin Roelofs*
- 3P019. **Concurrent auditory rhythm enhances visual object salience.** *Xiangyong Yuan, Yi Jiang*
- 3P020. **Surprising non-salient stimuli detract attention from a novel color singleton.** *Daniel Ernst, Gernot Horstmann*

3P021. The Role of Attention on the Minimum Presentation Duration Required for Scene Recognition. *Berhan Senyazar, Albert Ali Salah, Inci Ayhan*

Binocular/3D

3P022. Visual direction of Brewster's phenomenon and the percept produced by Wheatstone's first stereogram. *Linda Lillakas, Hiroshi Ono*

3P023. Mapping the temporal and neural properties of binocular mechanisms for motion-in-depth perception. *Ryan T Maloney, Milena Kaestner, Joe Ansell, Marina Bloj, Julie Harris, Alex Wade*

3P024. Inter-dimensional crosstalk in perceived three-dimensional position relative to a slanted array. *Harold Sedgwick*

3P025. Perceived stimulus size and depth in virtual 3D space – Measurement of response force and simple reaction time. *Thorsten Plewan*

3P026. More 3D ambiguity is produced by less 2D information. *Vasily Minkov, Sergey Kutylev, Tadamasa Sawada*

3P027. Is there a cost to binocular vision: A link between the statistics of binocular images and the effect of eccentricity on visual performance. *David W Hunter, Paul Hibbard*

3P029. A Model for Binocular Summation of Chromatic Signals. *Hsiao-Yuan Lin, Chien-Chung Chen*

3P030. The role of stereo disparity in early processing of global shape configuration and local part structure during object recognition: an ERP study. *Zoe Oliver, Filipe Cristino, Charles Leek*

3P031. The Extraction of Disparity-Defined Structure Using Cyclopean Filtering. *Paul B Hibbard, Ross Goutcher*

3P032. Influence of stimulus orientation and closed figures on stereopsis. *Anna Ptukha, Pascal Mamassian*

3P033. Synoptic viewing and monocular blur. *Maarten Wijnjtes*

Color

3P034. Reading speed improvement with coloured filters: Is the advantage of preferred over non-preferred colours a placebo effect? *Jane Cowan, Nick Scott-Samuel, Clive Frankish*

3P035. Better colour constancy or worse discrimination? Illumination discrimination in colour anomalous observers. *Stacey Aston, Jay Turner, Thomas Le Couteur Bisson, Gabriele Jordan, Anya Hurlbert*

3P036. Color Vision Perception: A trial to understand how the change in colour perception happens in “#thedress” phenomenon. *Kazim H Or*

3P037. Is primate trichromacy optimized for detecting variation in face coloration? *Chihiro Hiramatsu, Amanda Melin, William Allen, Constance Dubuc, James Higham*

3P038. Evidence for a temporal component in the influence of the colour of the surrounding. *Borja Aguado, Cristina M Maho, Michele Rucci, Eli Brenner*

3P039. Quantitative characterization of color vision using steady state visual evoked potentials. *Hideaki Hirose, Shigeki Nakauchi*

3P040. The role of visual coding in categorical perception of color. *Ivana Jakovljevic, Suncica Zdravkovic*

3P041. Testing for Multidimensional Color-Emotion Semantic Space. *Suncica Zdravkovic, Jelena Havelka, Christine Mohr, Domicela Jonauskaite, Nele Deal*

- 3P042. **The development of a colour basic category in the Spanish language: Universal and relativistic factors related to the “celeste” colour category.** *Julio A Lillo, Fernando Gonzalez, Lilia Prado-León, Anna Melnikova, Leticia Alvaro, José Collado, Humberto Moreira*
- 3P043. **Striate and extrastriate responses evoked by selective S-cone stimulation in human.** *Kalina I Racheva, Milena Mihaylova, Ivan Hristov, Tsvetalin Totev, Christina Christova, Stilian Georgiev, Dimitar Mitov*
- 3P044. **Colour spaces of red-green dichromats derived from multidimensional scaling: Effect of stimulus size and individual differences.** *Humberto Moreira, Leticia Álvaro, Anna Melnikova, Julio Lillo*
- 3P045. **Blue light reduces eye growth at high temporal frequencies but only at high contrast levels.** *Frances Rucker, Tiffany Yanase, Mark Henriksen, Chris Taylor*
- 3P046. **Evidence of Nonlinear Edge Mechanism in Cortical Responses to Color in the cVEP.** *Valerie Nunez, Robert Shapley, Peter Schuette, Afsana Amir, Chloe Brittenham, Asmaa Butt, Norine Chan, Syed Ali Hassan, Patricia Pehme, Carim-Sanni Ridwan, Yoomin Song, James Gordon*
- 3P047. **Colour simulation tools assessment: beyond colorimetric measurements.** *Leticia Álvaro, Julio Lillo, Humberto Moreira, Anna Melnikova*
- 3P048. **Colour Visual Coding in trained Deep Neural Networks.** *Ivet Rafegas, Maria Vanrell*
- 3P049. **A comparison between illuminant discrimination and chromatic detection.** *David Weiss, Karl Gegenfurtner*
- 3P050. **Investigating the relationship between population receptive field (pRF) sizes and spatial resolution using chromatic stimuli.** *Lauren E Welbourne, Freya Lygo, Su Zhao, Fraser Aitken, Alex Wade*

Color/Scene

- 3P051. **Colour dimensions of transparent media.** *Alexander Logvinenko*
- 3P052. **Blue, white and pink—A cross-cultural comparison of kitsch and kič concepts from Bavaria, Serbia, and Slovenia.** *Stefan A Ortlieb, Danaja Rutar, Ivan Stojilovic, Claus-Christian Carbon*
- 3P053. **The first and the last time plasticity of Mondrian color induction.** *Hiroki Yokota, Seiichiro Naito*
- 3P054. **Does color affect physiological response to emotional images?** *Joanna Pilarczyk, Kinga Wołoszyn, Michał Kuniecki*
- 3P055. **Perceptual color change of face by lipsticks.** *Yoshie Kiritani, Akane Okazaki, Kanako Motoyoshi, Ruriko Takano, Noriko Ookubo*
- 3P056. **Variations in skin colour and its ecological relevance.** *Sophie Wuenger, Tushar Chauhan, Kaida Xiao, Julian Yates, Ali Sohaib*
- 3P057. **Skin Colour Cues to Health and Fitness.** *David Perrett, Audrey Henderson, Ross Whitehead, Rebecca Hjemdahl, Abigail Bender, Amy Waters, Sean Talamas, Patrick Cairns, Gozde Ozakinci*
- 3P058. **The “Camouflage Machine”: optimising patterns for camouflage and visibility.** *Laszlo Talas, John G. Fennell, Roland J. Baddeley, Innes C. Cuthill, Nicholas E. Scott-Samuel*
- 3P059. **How does color diagnosticity modulate subjective experience of full-color natural scenes?** *Eiji Kimura, Natsumi Takahashi, Mayu Sekizuka*

- 3P060. **Effects of Color Distribution on the Impression of Facial Skin.** *Katsunori Okajima, Miki Yonezawa*
- 3P061. **Implicit knowledge of the colours of natural scenes matches real colours.** *Sérgio M Nascimento, João Linhares, Ruben Pastilha, Cristina Montagner*
- 3P062. **Yellow is more creative than you know: Exploring implicit color associations with the multidimensional IAT.** *Marius H Raab, Anastasia Mironova, Claus-Christian Carbon*
- 3P063. **The effect of ceiling color on interior space perception.** *Christoph von Castell, Heiko Hecht, Daniel Oberfeld*
- 3P064. **Object color change under natural illumination despite.** *Toshihiro Bando, Michitomo Ishii, Yasunar Sasaki*

Crowding

- 3P065. **Models of crowding: a comparative study.** *Adrien C Doerig, Aaron Clarke, Greg Francis, Michael Herzog*
- 3P066. **The role of focal and orientation components of attention in modulating crowding in central and peripheral vision.** *Roberta Daini, Andrea Albonico, Emanuela Bricolo, Eleonora Frasson, Giuseppina Grasso, Antea Peiti, Marica Tessera, Marialuisa Martelli*
- 3P067. **Crowding effects using negatively conditioned stimuli.** *Ferdinand Pittino, Anke Huckauf*
- 3P068. **Visual crowding in natural images is affected by perceptual grouping of flankers.** *Anna E Hughes, Sarah Vaughan, David Tolhurst*
- 3P069. **Distinct process for perceptual and numerical estimation of average across time.** *Hiromi Sato, Isamu Motoyoshi*
- 3P070. **Crowded and uncrowded perception of Cyrillic letters in parafoveal vision: confusion matrices based on error rates.** *Svetlana V Alexeeva, Alena Konina*
- 3P071. **Identity-Crowding: Perception without Attention or Cognitive Inference?** *Bilge Sayim, Daniel R. Coates, Henry Taylor*
- 3P072. **Crowded letter recognition: An objective measure of letter similarity.** *Deyue Yu, Ryan Loney*
- 3P073. **Perceptual learning following visual search decreases peripheral visual crowding.** *Alessandro Grillini, Remco Renken, Nomdo Jansonius, Frans Cornelissen*
- 3P074. **Can we predict peripheral reading speed based on visual letter recognition performance for individual readers?** *Jean-Baptiste Bernard, Deyue Yu, Eric Castet*
- 3P075. **Target discrimination is not affected by distractor expectation.** *Josephine Reuther, Ramakrishna Chakravarthi*

Decision Making

- 3P076. **Differential gains depending on relying more on time or space: evidence from a timing task.** *David Aguilar-Lleyda, Elisabet Tubau, Joan López-Moliner*
- 3P077. **The neural basis of the paired-object affordance effect.** *Alexia Roux-Sibilon, Solene Kalenine, Cedric Pichet, Carole Peyrin*
- 3P078. **On optimal estimation from correlated samples.** *Oana Stanciu, Mate Lengyel, Daniel Wolpert, Jozsef Fiser*
- 3P079. **Predicting perception from the electroencephalogram.** *Greta Vilidaitė, Daniel H Baker*

3P080. **Logistic mixed models to investigate implicit eye gaze and explicit choice predictions.** *Martin Lages, Anne Scheel*

3P081. **Control of saccadic latencies in a choice paradigm.** *Cécile Vullings, Laurent Madelain*

Development

3P082. **Developmental differences in canonical visual size during a drawing task.** *Kentaro Inomata*

3P083. **Development of haptic and visual 2D shape recognition.** *Krista Overvliet, Ralf Krampe*

3P084. **Gaze patterns to the focus of a radial optic flow in school age children.** *Nobu Shirai, Tomoko Imura*

3P085. **The development of facial expression recognition abilities from childhood to adulthood.** *Megan Willis, Nicholas Badcock, Nicole Ridley, Romina Palermo*

3P086. **The development of convergence and divergence to radial optic flow in infancy.** *Elizabeth Nawrot, Mark Nawrot*

3P087. **Unisensory and multisensory development in typically and visually deprived children.** *Giulia Cappagli, Sara Finocchietti, Elena Cocchi, Monica Gori*

3P088. **Age-related differences in object recognition tasks in preschool children.** *Sergey Kiselev*

3P089. **Object-based visual attention assessed by eye vergence movements in early infancy.** *Flavia Espósito, Hans Supér*

Faces/Expressions

3P090. **Expression dependence in the perception of facial identity.** *Annabelle S Redfern, Chris Benton*

3P091. **Categorical and dimensional representations of emotions tested by adaptation to dynamic facial expressions.** *Olga A Korolkova*

3P092. **Composite facial expressions: half-face diagnostic features dominate emotion discrimination.** *Galina Y Menshikova, David Bimler, Yakov Bondarenko, Galina Paramei*

3P093. **Dissociations of Face and Emotion Perception: A Case Study of Congenital Prosopagnosia.** *David M Kurbel, Malte Persike, Günter Meinhardt, Bozana Meinhardt-Injac*

3P094. **Face your body! Bi-directional shifts in emotion categorization following face-body integration.** *Maya Lecker, Ron Dotsch, Gijs Bijlstra, Hillel Aviezer*

3P095. **Effect of Smiling on Perception of Facial Birthmarks of Different Sizes.** *Ken Masame*

3P096. **Hiding emotions: The effects of masking facial regions on judgements of emotional similarity within "expression space".** *David Bimler, John Kirkland*

3P097. **Traditional Islamic Headdress and Facial Features Unconsciously Elicit Negative Emotions.** *Trevor J Hine, Bhutto Sarah*

3P098. **Crossmodal integration of emotional sounds and faces depends on the degree of autistic traits.** *Arno Koning, Lena Mielke, Rob van Lier*

3P099. **Reading the Mind in the Blink of an Eye - A novel database for facial expressions.** *Gunnar Schmidtmann, Daria Sleiman, Jordan Pollack, Ian Gold*

Motion

- 3P100. **Is there a correlation between psychophysical visual surround suppression and IQ?** *Sandra Arranz-Paraíso, Ignacio Serrano-Pedraza*
- 3P101. **Context improves motion speed estimation.** *Agustín P Décima, Andrés Martín, José Barraza*
- 3P102. **Anodal and cathodal electrical stimulation over v5 improves motion perception by signal enhancement and noise reduction.** *Luca Battaglini, Clara Casco*
- 3P103. **Migraine and the motion streak.** *Louise O'Hare*
- 3P104. **Further observations of the "Witch Ring" illusion.** *David A Phillips, Priscilla Heard, Thomas Ryan*
- 3P105. **Direction perception in center-surround multi-element configurations with varying contrast and velocity.** *Miroslava Stefanova, Nadejda Bocheva, Byliana Genova, Simeon Stefanov*
- 3P106. **Size of motion display affects precision of motion perception.** *Yoshiaki Tsushima, Yuichi Sakano, Hiroshi Ando*
- 3P107. **The effect of temporal duration on the integration of local motion in the discrimination of global speed, in the absence of visual awareness.** *Charles Y Chung, Sieu Khuu, Kirsten Challinor*
- 3P108. **Second-order apparent motion perception traversing horizontal and vertical meridians.** *Hidetoshi Kanaya, Takao Sato*
- 3P109. **Effects of different electrical brain stimulations over V5/MT on global motion processing.** *Filippo Ghin, George Mather, Andrea Pavan*

Perception & Action

- 3P110. **The window of simultaneity widens around the time of an active or passive action.** *Belkis Ezgi Arikan, Bianca M. van Kemenade, Benjamin Straube, Laurence Harris, Tilo Kircher*
- 3P111. **The influence of effector movement on the spatial coding of somatosensory reach targets: From gaze-independent to gaze-dependent coding.** *Stefanie Mueller, Katja Fiehler*
- 3P112. **Turning down the noise in interceptive timing.** *Oscar T Giles, Richard Wilkie, Peter Culmer, Ray Hold, James Tresilian, Mark Mon-Williams*
- 3P113. **The lack of effect of a visual size illusion on grip aperture is independent of object size.** *Jeroen Smeets, Eli Brenner*
- 3P114. **Repeated Search with Arm and Body Movements.** *Christof Körner, Margit Höfler, Iain Gilchrist*
- 3P115. **Gaze when grasping a glass of milk or water.** *Eli Brenner, Dimitris Voudouris, Katja Fiehler, Jeroen B.J. Smeets*
- 3P116. **Tactile enhancement in reaching.** *Dimitris Voudouris, Katja Fiehler*
- 3P117. **Sensory-based versus memory-based selection in well-practiced sensorimotor sequences.** *Rebecca M Foerster, Werner X. Schneider*
- 3P118. **How do people steer a car to intercept a moving target: Flexibility in the visual control of locomotor interception.** *Huaiyong Zhao, Dominik Straub, Constantin Rothkopf*
- 3P119. **Exploring the role of actions in calibrating audio-visual events in time.** *Nara Ikumi, Salvador Soto-Faraco*
- 3P120. **Effects of visual feedback of virtual hand on proprioceptive drift.** *Hiroaki Shigemasa, Takuya Kawamura*

- 3P121. **Motor activity associated with perceived objects depends on its location in space and previous interactions: an EEG study.** *Alice Cartaud, Yannick Wamain, Ana Pinheiro, Yann Coello*
- 3P122. **Sensitivity of the human perceptual system to human-like behaviour of other agents.** *Agnieszka Wykowska*
- 3P123. **Foreperiod beta-power correlates with the degree of temporal adaptation.** *Clara Cámara, Josep Marco-Pallarés, Joan López-Moliner*
- 3P124. **The nature of error signals in adaptation.** *Elisabeth Knelange, Joan López-Moliner*
- 3P125. **Motor learning that demands novel dynamic control and perceptual-motor integration: An fMRI study of training voluntary smooth circular eye movements.** *Raimund Kleiser, Cornelia Stadler, Sibylle Wimmer, Thomas Matyas, Rüdiger Seitz*
- 3P126. **Optic flow speed modulates guidance level control: new insights into two-level steering.** *Jac Billington, Callum Mole, Georgios Kountouriotis, Richard Wilkie*
- 3P127. **Predicting the trajectory of a ball from the kinematics of a throwing action.** *Antonella Maselli, Aishwar Dhawan, Benedetta Cesqui, Andrea d'Avella, Francesco Lacquaniti*

Perceptual organization

- 3P128. **Simultaneous density contrast.** *Hua-Chun Sun, Curtis Baker, Frederick Kingdom*
- 3P129. **The neural response to visual symmetry in each hemisphere.** *Damien Wright, Alexis Makin, Marco Bertamini*
- 3P130. **Identifying Semantic Attributes for Procedural Textures.** *Qitao Wu, Jun Liu, Lina Wang, Ying Gao, Junyu Dong*
- 3P131. **The role of motion in mirror-symmetry perception.** *Rebecca J Sharman, Elena Gheorghiu*
- 3P132. **Dynamically adjusted surround contrast enhances boundary detection.** *Arash Akbarinia, Alejandro Parraga*
- 3P133. **From grouping to coupling: A new perceptual organization beyond Gestalt grouping.** *Katia Deiana, Baingio Pinna*
- 3P134. **Probing Attentional Deployment to Foreground and Background regions.** *Adel Ferrari, Marco Bertamini*
- 3P135. **Perception of the Kanizsa illusion by pigeons when using different inducers.** *Tomokazu Ushitani, Mochizuki Shiori*
- 3P136. **Depth perception affects figure-ground organization by symmetry under inattention.** *Einat Rashal, Ruth Kimchi, Johan Wagemans*
- 3P137. **Measuring Plaid-Selective Responses Across Contrast Using the Intermodulation Response.** *Darren G Cunningham, Jonathan Peirce*
- 3P138. **Different mechanisms mediating interpolation of illusory and partly-occluded contours.** *Bat-Sheva Hadad*

Temporal processing

- 3P139. **The time compression induced by visual masking.** *Riku Asaoka, Jiro Gyoba*
- 3P140. **Emotions evoked by viewing pictures may affect perceived duration and temporal resolution of visual processing.** *Makoto Ichikawa, Misa Kobayashi*
- 3P141. **The effects of spatial attention on temporal integration.** *Ilanit Hochmitz, Marc M. Lauffs, Michael H. Herzog, Yaffa Yeshurun*

- 3P142. **Cinematic cuts and temporal continuity.** *Elena A Parozzi, Luca Tommasi, Rossana Actis-Grosso*
- 3P143. **Unpacking the prediction-motion literature.** *Alexis D Makin*
- 3P144. **Effect of stimulus placement and presentation on duration discrimination.** *Charlotte Harrison, Nicola Binetti, Isabelle Mareschal, Alan Johnston*
- 3P145. **The effect of awareness of temporal lag on motor-visual temporal recalibration varies with judgment tasks.** *Masaki Tsujita, Koichiro Yamada, Makoto Ichikawa*
- 3P146. **Illusion and reality: the case of apparent duration.** *David Rose*

THURSDAY TALKS

Morning

Talks 18. Attention (*chair: Marisa Carrasco, Room 1*)

- 9:00 to 9:15 - [41T101] **Attention is allocated ahead of the target during smooth pursuit eye movements: evidence from EEG frequency tagging.** *Jing Chen, Matteo Valsecchi, Karl Gegenfurtner*
- 9:15 to 9:30 - [41T102] **Super-fast endogenous allocation of temporal attention.** *Yaffa Yeshurun, Shira Tkacz-Domb*
- 9:30 to 9:45 - [41T103] **Using the pupillary light response to track visual attention during pro- and antisaccades.** *Sebastiaan Mathôt, Nicki Anderson, Mieke Donk*
- 9:45 to 10:00 - [41T104] **Hierarchical binding and illusory part conjunctions.** *Ed Vul*
- 10:00 to 10:15 - [41T105] **Neural mechanisms of divided feature-selective attention to colour.** *Jasna Martinovic, Sophie Wuerger, Hillyard Steven, Matthias Mueller, Soren Andersen*
- 10:15 to 10:30 - [41T106] **Learning to attend and ignore: The influence of reward learning on attentional capture and suppression.** *Daniel Pearson, Thomas Whitford, Mike Le Pelley*
- 10:30 to 10:45 - [41T107] **Macaque monkey use of categorical target templates to search for real-world objects.** *Bonnie Cooper, Hossein Adeli, Greg Zelinsky, Robert McPeck*
- 10:45 to 11:00 - [41T108] **Moving beyond the single target paradigm: Set-size effects in visual foraging.** *Arni Kristjansson, Ian M Thornton, Tómas Kristjánsson*

Symposium 6. Visual Perception in Healthy Ageing (*organizer: Karin S. Pilz, Room 2*)

- 9:00-9:20 - [41S201] **Healthy ageing and visual motion perception.** *Karin S Pilz*
- 9:20-9:40 - [41S202] **How does age limit learning on perceptual tasks?** *Ben Webb, Paul McGraw, Andrew Astle*
- 9:40-10:00 - [41S203] **Is there a common cause for perceptual decline in the aging brain?** *Michael H Herzog, Karin Pilz, Aaron Clarke, Marina Kunchulia, Albulena Shagiri*
- 10:00-10:20 - [41S204] **Keeping focused: Selective attention and its effect on visual processing in healthy old age.** *Clíodhna Quigley, Søren Andersen, Matthias Müller*
- 10:20-10:40 - [41S205] **Eye movements as a window to decline and stability across adult lifespan.** *Jutta Billino*

Midday

Talks 19. Perceptual Organization (*chair: Jasna Martinovic, Room 1*)

- 14:00 to 14:15 - [42T101] **Neural responses to partially occluded symmetry.** *Marco Bertamini, Giulia Rampone, Adel Ferrari, Alexis Makin*

- 14:15 to 14:30 - [42T102] **Grid-texture mechanisms in human vision: Contrast detection of regular sparse micro-patterns requires specialist templates.** *Tim S Meese, Daniel Baker*
- 14:30 to 14:45 - [42T103] **Contour Integration with Corners.** *Malte Persike, Guenter Meinhardt*
- 14:45 to 15:00 - [42T104] **Binding feedforward and horizontal waves in V1 requires spatio-temporal synergy.** *Xoana G Troncoso, Benoit Le Bec, Christophe Desbois, Florian Gerard-Mercier, Yves Fregnac*
- 15:00 to 15:15 - [42T105] **Mandatory feature integration across retinotopic locations.** *Leila Drissi Daoudi, Haluk Öğmen, Michael H. Herzog*
- 15:15 to 15:30 - [42T106] **Perception of global object motion without integration of local motion signals.** *Rémy Allard, Angelo Arleo*

Talks 20. Methods and applications (chair: Joshua Solomon, Room 2)

- 14:00 to 14:15 - [42T201] **Predicting behavior from decoded searchlight representations shows where decodable information relates to behavior.** *Tijl Grootswagers, Radoslaw Cichy, Thomas Carlson*
- 14:15 to 14:30 - [42T202] **Why cognitive scientists should abandon the analysis of mean RT using ANOVA and switch to event history analysis.** *Sven Panis*
- 14:30 to 14:45 - [42T203] **Practice lowers contrast thresholds for detection, not sensory thresholds.** *Joshua A Solomon, Christopher Tyler*
- 14:45 to 15:00 - [42T204] **The impact of feedback in pupil-based biofeedback applications.** *Jan Ehlers, Anke Huckauf*
- 15:00 to 15:15 - [42T205] **Effects of Flight Duration, Expertise, and Arousal On Eye Movements in Aviators.** *Stephen L Macknik, Adriana Nozima, Leandro Di Stasi, Susana Martinez-Conde, Michael McCamy, Ellis Gayles, Alexander Cole, Michael Foster, Chad Hoare, Francesco Tenore, M Sage Jessee, Eric Pohlmeier, Mark Chevillet, Andrés Catena, Wânia C de Souza*
- 15:15 to 15:30 - [42T206] **A new 3d virtual reality system to assess visual function and to perform visual therapy.** *Jaume Pujol, Juan C. Ondategui-Parra, Rosa Borrás, Mikel Aldaba, Fernando Diaz-Douton, Carlos E. García-Guerra, Meritxell Vilaseca, Carles Otero, Josselin Gautier, Clara Mestre, Marta Salvador*

Afternoon

Talks 21. Spatial vision: 2D and 3D (chair: Julie Harris, Room 1)

- 17:00 to 17:15 - [43T101] **Breaking shape-from-shading inference through body form and countershading camouflage.** *Julie M Harris, Olivier Penacchio, P. George Lovell, Innes Cuthill*
- 17:15 to 17:30 - [43T102] **The role of projective consistency in perceiving 3D shape from motion and contour.** *Manish Singh, Xiaoli He, Jacob Feldman*
- 17:30 to 17:45 - [43T103] **Is the Müller-Lyer illusion a perspective-based illusion?** *Dejan Todorović*

- 17:45 to 18:00 - [43T104] **Depth enhancement with synoptic viewing.** *Brian J Rogers, Jan Koenderink*
- 18:00 to 18:15 - [43T105] **The Bologna's tower paradox: A dynamic architectural zoom lens illusion in framed visual perception.** *Leonardo Bonetti, Marco Costa*
- 18:15 to 18:30 - [43T106] **Stereo disparity modulates evoked potentials associated with the perceptual classification of 3D object shape: high-density ERP study.** *Charles Leek, Mark Roberts, Alan Pegna*

Talks 22. Biological motion (chair: *Martin Giese, Room 2*)

- 17:00 to 17:15 - [43T201] **EEG frequency tagging reveals distinct visual processing of moving humans and motion synchrony.** *Nihan Alp, Andrey R. Nikolaev, Johan Wagemans, Naoki Kogo*
- 17:15 to 17:30 - [43T202] **Perception of grasping of biological movement in typical and autistic children.** *Marco Turi, Francesca Tinelli, David Burr, Giulio Sandini, Maria Concetta Morrone*
- 17:30 to 17:45 - [43T203] **Engaging facial muscular activity biases the emotion recognition of point-light biological walkers.** *Aiko Murata, Fernando Marmolejo-Ramos, Michał Parzuchowski, Carlos Tirado, Katsumi Watanabe*
- 17:45 to 18:00 - [43T204] **Model for the integration of form and shading cues in multi-stable body motion perception.** *Leonid A Fedorov, Martin Giese*
- 18:00 to 18:15 - [43T205] **A computational model of biological motion detection based on motor invariants.** *Alessia Vignolo, Nicoletta Noceti, Francesca Odone, Francesco Rea, Alessandra Sciutti, Giulio Sandini*
- 18:15 to 18:30 - [43T206] **Evidence for norm-based coding of human movement speed.** *George Mather, Rebecca Sharman, Todd Parsons*

THURSDAY POSTERS

Aging

4P001. **Age-related changes in saccadic adaptation.** *Jing Huang, Jutta Billino, Sabine Margolf-Hackl, Karl Gegenfurtner*

4P002. **Gender differences in visual perception.** *Albulena Shaqiri, Andreas Brand, Maya Roinishvili, Marina Kunchulia, Guillaume Sierro, Julie Willemin, Eka Chkonia, Luisa Iannantuoni, Karin Pilz, Christine Mohr, Michael Herzog*

4P003. **Biological Motion and Attention in Healthy Ageing.** *Hannah C Agnew, Karin S Pilz*

4P004. **Manipulation and function knowledge in a lifespan perspective: evidence from a semantic priming study.** *Cynthia Collette, Isabelle Bonnotte, Charlotte Jacquemont, Solène Kalénine, Angela Bartolo*

4P005. **Age-related differences in preferential attention to, but not interference from, affective images.** *Janice E Murray, Mark Madill*

4P006. **Quantifying the Effect of Healthy Ageing on Features of Face Perception.** *Andrew J Logan, Gael E Gordon, Gunter Löffler*

4P007. **Alpha7 subunit of the nicotinic acetylcholine receptor gene (CHRNA7) and perception of coherent motion in aging.** *Marina Kunchulia, Nato Kotaria, Karin Pilz, Adam Kotorashvili, Michael Herzog*

4P008. **Age related differences in perception of a situation and eye-witness identification.** *Helen Kaye*

4P009. **Effects of aging in cognitive and anticipated properties of the moving object.** *Masaru Takeichi, Takeyuki Arai, Kinya Fujita*

4P010. **Spatial attention measures in healthy aging.** *Gesine Maerker, Gemma Learmonth, Monika Harvey*

4P011. **Compensation mechanism of chromatic adaptation in elderly person.** *Katsuaki Sakata, Hitomi Shimakura*

4P012. **Dual task performances in pathological and physiological aging.** *Martina Conti, Maria Gabriella Donato, Simona Cintoli, Nicoletta Berardi, Gloria Tognoni, Maria Michela Del Viva*

Applied vision

4P013. **Visually evoked potentials gained by new mobile device can detect CNS fatigue.** *Zuzana Kubova, Karolina Kubova, Miroslav Kuba, Jan Kremlacek, Frantisek Vit, Jana Szanyi, Jana Langrova*

4P014. **Effects of indirect screen vision and tool-use on the time and precision of object positioning on real-world targets.** *Anil Ufuk Batmaz, Michel de Mathelin, Birgitta Dresp-Langley*

4P015. **The relationship between the direction of attention and evaluation content while observing products.** *Aya Shiraiwa, Kentaro Inomata, Ayako Masuda, Takashi Asano, Kunio Nikata, Keigo Kawasaki, Seiichi Furuhashi, Noriko Nagata, Norio Komura*

4P016. **Assessing visual processing capabilities using the virtual reality device Oculus Rift.** *Christian H Poth, Rebecca M. Foerster, Christian Behler, Mario Botsch, Werner X. Schneider*

- 4P017. **Brain games: Extensive action video game experience enhances globally-directed visual-attention.** *Nicole H. L. Wong, Travis C. M. Ting, Dorita H. F. Chang*
- 4P018. **Blur Unblurred, for the Vision Scientist.** *Hans Strasburger, Sven P. Heinrich, Michael Bach*
- 4P019. **Mobile device for visually evoked potentials recorded from prefrontal cortex.** *Miroslav Kuba, Jan Kremlacek, Frantisek Vit, Martina Holubova, Aneta Mlynarova, Zuzana Kubova, Jana Langrova, Jana Szanyi*
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- 4P021. **Visual-motor integration in dyslexia.** *Barbara Piotrowska, Jennifer Murray, Alexandra Willis, Jon Kerridge, Rory MacLean*

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- 4P023. **Collaborative multiple object tracking: How many objects can you track and which ones did you pick?** *Basil Wahn, Alan Kingstone, Peter König*
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