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Activities:
- **Sunday 27th August**
  - SEPEX tutorial on PSYCHOPHYSICS
  - SEPEX tutorial on COMPUTATIONAL NEUROSCIENCE

- **Monday 29th August**
  - Eye Adaptation
  - Inversion Problems in Vision Science
  - Development (S)
  - Perceptual models of lighting

- **Tuesday 30th August**
  - Object processing
  - Posters
  - New directions in active vision

- **Wednesday 31st August**
  - Color: cone opponency and beyond
  - Scene perception
  - Decision making

- **Thursday 1st September**
  - Dynamic sequential effects in visual perception
  - Attention (S)
  - Visual perception in healthy aging

Venue:
- CosmoCaixa
- Pau Casals Hall
- Oriol Martorell Hall
- Tete Montoliu Hall
- Auditori Foyer
- UPF Campus
- Can Cortada

Symposia:
- (S) Symposium
- Large-scale models of brain activity
- Simposium Visual neurosciences and computer science
- Simposium Movement problems and perception
- Simposium on visual perception and action
- Symposium on perception and action
- Symposium on visual perception in healthy aging
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Logo designed by Chieko Shimotsu
Barcelona Skyline by Alvaro Molero from the Noun Project
COMMITTEES

Organizing Committee

Joan López-Moliner
Gustavo Deco
Cristina de la Malla
Matthias Keil
Daniel Linares
Xavier Otazu
Alejandro Párraga
Salvador Soto-Faraco
Maria Vanrell

Scientific Committee


Acknowledgements

We would like to thank Pep Batista-Trobalón, Núria Amenós, Cristina Pulido, Maria Pilar Gómez, Mercedes Conejo, Juanma García 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-noveau architecture, the museums, the beaches, the sun and the extraordinary food.

On behalf of the Organizing committee,

Joan López-Moliner
SPONSORS
VENUES

L’Auditori

L’Auditori of Barcelona is the main ECVP venue. L’Auditori is one of the two main concert halls in the city. Three halls will be available for the ECVP 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 boci 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’olivelé
- **Mediterranean Cuisine**: Boca grande, Monvínic, 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 Brasserie**: Catalan specialties. Menu. (Address: Sicília, 202)
- **Dune**: great assortment of tapas, menu also. Spatious 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
- Agustin Décima
- Polina Krivykh
- Kishore Kumar Jagini
- Jordi Asher
- Sandra Arranz-Paraiso
- 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.
Exploring all aspects of biological visual function

Spanning the fields of neuroscience, psychology and psychophysics

Read the latest research on
- spatial vision
- perception
- low vision
- color vision
- and more....

Publication grants available for up to $1,500.
ARVO members receive $350 off publication fees.

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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
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.
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 percepts. 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

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<td>Eye movements</td>
<td>Inversion problems in vision science</td>
<td>Perceptual models of lighting</td>
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<td>14:00 - 15:30</td>
<td>Adaptation</td>
<td>Development</td>
<td>Object processing</td>
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<td>Temporal processing</td>
<td>Crowding</td>
<td>Lightness and brightness</td>
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<td>New directions in active vision</td>
<td>Color: cone opponency and beyond</td>
<td>Scene perception</td>
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<td>14:00 - 15:30</td>
<td>Decision making</td>
<td>Clinical</td>
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<td>Dynamic sequential effects in visual perception</td>
<td>Perception and action</td>
<td>Computational models</td>
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<td>Computational models</td>
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<td>Perceptual models</td>
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<td>Attention</td>
<td>Visual perception in healthy aging</td>
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<tr>
<td>14:00 - 15:30</td>
<td>Perceptual organization</td>
<td>Methods and applications</td>
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<tr>
<td>17:00 - 18:30</td>
<td>Spatial vision: 2D and 3D</td>
<td>Biological motion</td>
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**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  
- Attention: spatial  
- Clinical  
- Eye movements

- Faces  
- Grouping  
- Illusions  
- Neural models and computational

- Objects: recognition  
- Perception and action  
- Visual memory and cognition

**Tuesday, 30th August**

- Adaptation  
- Attention: search  
- Binocular/3D  
- Eye movements

- Lightness, brightness and contrast  
- Motion/Complex and models

- Multisensory  
- Multistable  
- Visual memory and cognition

**Wednesday, 31st August**

- Art/Illusions  
- Attention: objects and features  
- Binocular/3D  
- Color

- Color/Scene  
- Crowding  
- Decision making  
- Development  
- Faces: expressions

- Motion  
- Perception and action  
- Perceptual organization  
- Temporal processing

**Thursday, 1st September**

- Aging  
- Applied vision  
- Attention: tracking  
- Biological motion  
- Clinical

- Eye movements: applications  
- Faces  
- Learning  
- Motion: vection

- Multisensory  
- Scene perception  
- Scene: stats summary  
- Spatial aspects
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
9:45 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
10:45 to 11:00 - [11T108] Inflexible eye movements to faces with changes in front end sensory processing. Miguel P Eckstein, Yuliy 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
9:40-10:00 - [11S203] Neural decisions under perceptual uncertainty. Janneke F Jehee

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
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 Zhaoping

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 Miellet
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] **Wibble-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

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


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 Alvar, Meagan Y. Driver

1P008. Distraction in visual search is driven by neutral information as well as association with reward. Luke Tudge, Torsten Schubert


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, Jeremy Jozefowiez, 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 Maclnnes

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 Maclnnes

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

Monday 29th August
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
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
1P034. Impaired cognitive functioning in first-episode patients. Maya Roinishvili, Mariam Oquashvili, Tinatin Gamkrelidze, Michael Herzog, Eka Chkonia

Eye movements
1P036. Gaze fixation during the slowing down presentation of handwriting movement in adults with autism spectrum disorders. Anais Godde, Raphaele 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, Viktoria Novitko, 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


1P043. Is the remote distractor effect on saccade latency greater when the distractor is less eccentric than the target? Soazig Casteau, François 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 Krolczak

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. Evolutive 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 Or, Joan Liu-Shuang, Bruno Rossion

1P052. Holistic Processing of Static and Rigidly Moving Faces. Mintao Zhao, Isabelle Bülthoff

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 Barabanschikov, 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, Xiaqiao 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 Grzeczkowski, 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
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-García, Borja Galan, Jesús Malo
1P094. Mapping the visual brain areas susceptible to phosphene induction through brain stimulation. Lukas F Schaefthner, Andrew Welchman
1P095. Feedback signals from the local surround are combined with feedforward information in human V1. Yulita 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 Supèr
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
1P103. Multi-Spatial-Frequency-Channel Processing in Retina. Jhyun Kim, Marcelo Bertalmío
1P104. Model selection for prediction of Visually Induced Motion Sickness. Shin Tabeta, Tohru Kiryu, Shigehito Tanahashi
A Model of Competitive Neural Network for Exogenous Visuospatial Orienting. Drazen Domijan

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

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

Objects/Recognition

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

What is a haptic object? Rebecca Lawson, Stefano Cecchetto

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

Motion induced distortion of shapes. Nika Adamian, Patrick Cavanagh

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

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

Disrupting object identification with iridescence. Joanna Hall, Karin Kjernsmo, Nick Scott-Samuel, Innes Cuthill, Heather Whitney

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

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

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

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

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

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

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

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

Perception & Action

Distributed Representations – Interplay between internal and external actions in the Tower of Hanoi task. Gregor Hardiess, Marcel Dorer, Hanspeter A. Mallot
Quick spatial reorientation after teleportation: ERP evidence. Agoston Torok, Andrea Kobor, Gyorgy Persa, Peter Galambos, Peter Baranyi, Valeria Csepe, Ferenc Honbolygo

Extending the boundaries of Weber’s Law in grasping. Tzvi Ganel

Men’s visual attention to and perceptions of women’s dance movements. Susanne Röder, Claus-Christian Carbon, Todd K. Shackelford, Katarzyna Pisianski, Bettina Weege, Bernhard Fink

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

Conscious and Unconscious Priming Influence on Sense of Agency. Almara Kulieva, Maria Kuvaldina

Body and eye movements during interactions with avatars in virtual environments. Olga Saveleva, Denis V. Zacharkin, Galina Ya. Menshikova

How is the remembered area of scenes affected by location shift in object-centered and ego-centered coordinates? Takuma Murakoshi, Eiji Kimura, Makoto Ichikawa

Perceiving social intention in motor action. François Quesque, Yann Coello

Angle rounding and finger shrinkage when watching and touching a partially occluded corner. Walter Gerbino, Giovanni Lecci, Joanna Jarmolowska, Carlo Fantoni

Personality Predictors of Ideomotor Response in a Detection Task. Jay A Olson, Amir Raz

Visual processes dominate perception and action during social interactions. Laura Fademrecht, Heinrich H. Bültthoff, Stephan de la Rosa

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

The role of action in the formation of visual representations of both actors and observers. Dejan Draschkow, Melissa L.-H. Vö

A strategy to improve arithmetical performance in four day-old domestic chicks (Gallus gallus). Maria Loconsole, Rosa Rugani, Lucia Regolin

The time course of image memorability. Lore Goetschalckx, Johan Wagemans

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

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

Subordinated function of visual perception in conscious semantic cognitive tasks. Sergei Artemenkov

The role of categorization in the cognitive process of a person moving in an interior space. Anna Losonczi, Anett Rago, Levente Gulyás, Klára Sarbak, Attila Kurucz, Andrea Dül

Metacontrast masking applied to lexical stimuli. Nicolas Becker, Uwe Mattler

Individual Perception Style Affects Implicit Memory. Kyoko Hine

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

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
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


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 Herbik, 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 Laufts, Haluk Öğmen, 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 Crogna, Cara 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 Wuerger
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
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 detectibility 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' Sperati, 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.** Tadamas 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
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
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
2P061. The pursuit of covert attention in change blindness. Vasili Marshev, Andrey Chetverikov, Maria Kuvaldina
2P062. Statistics of microsaccades indicate early frequency effects during visual word recognition. André Krügel, Ralf Engbert

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


2P075. “Glowing gray” does exist: the influence of luminance ramps on whiteness perception. Yuki Kobayashi, Soyogu Matsushita, Kazunori Morikawa


2P077. Predicting Discomfort Glare. Leslie Guadron, Jeroen Goossens, Leonie Gererdinck, 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
A new analytical method for characterizing nonlinear visual processes. Ryusuke Hayashi, Hiroki Yokoyama, Osamu Watanabe, Shin'ya Nishida

Kinetic cue for perceptual discrimination between mirror and glass materials. Hideki Tamura, Hiroshi Higashi, Shigeki Nakauchi

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

Sensitivity and precision to speed differences across kinetic boundaries. Bilyana Genova, Nadejda Bocheva, Miroslava Stefanova, Simeon Stefanov

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

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

Event-based model of vision: from ATIS to hierarchical motion processing. Mina A Khoei, Ryad Benosman

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

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

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

Extra-retinal information for disambiguating depth from motion parallax. Kenzo Sakurai, Shihori Furukawa, William Beaudot, Hiroshi Ono

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

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

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

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

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

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

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

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

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

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

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
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**
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
Visual memory & Cognition
2P129. EEG correlates of memory contribution to perceptual disambiguation. Ellen Joos, Jürgen Kommeier
2P131. Influencing working memory using social and non-social attention cues. Samantha Gregory, Margaret Jackson
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
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. João 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 Boduroğlu
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? Haggar 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

Tuesday 30th August
**WEDNESDAY TALKS**

**Morning**

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


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, Rufin 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 Kristjansson

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. Aenne A Brielmann, 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 Konin
3P008. Structure of experience of beauty: General and category specific dimensions. Slobodan Marković, Vanja Šokorio, 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

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 Kuniec, 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
3P032. Influence of stimulus orientation and closed figures on stereopsis. Anna Ptukha, Pascal Mamassian
3P033. Synoptic viewing and monocular blur. Maarten Wijntjes

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 Franklish
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 Jakovljev, Suncica Zdravkovic
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 Álvaro, 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 Woloszyn, Michal Kuniecki

3P055. **Perceptual color change of face by lipsticks.** Yoshie Kiritani, Akane Okazaki, Kanako Motoshoyi, Ruriko Takano, Noriko Ookubo

3P056. **Variations in skin colour and its ecological relevance.** Sophie Wuerger, 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
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. Svétlana V Alexeeva, Alena Konina
3P071. Identity-Crowding: Perception without Attention or Cognitive Inference? Bilge Sayım, Daniel R. Coates, Henry Taylor
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 Vilidaite, 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-Paraiso, 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 Shigemasu, 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


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


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 McPeek
10:45 to 11:00 - [41T108] **Moving beyond the single target paradigm: Set-size effects in visual foraging.** Arni Kristjansson, Ian M Thornton, Tomas Kristjansson

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
9:40-10:00 - [41S203] **Is there a common cause for perceptual decline in the aging brain?** Michael H Herzog, Karin Pilz, Aaron Clarke, Marina Kunchulia, Albulena Shaqiri
10:00-10:20 - [41S204] **Keeping focused: Selective attention and its effect on visual processing in healthy old age.** Cliodhna Quigley, Soren 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
14:30 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
15:15 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 Borras, Mikel Aldaba, Fernando Diaz-Douton, Carlos E. Garcia-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-Hacket, Karl Gegenfurtner
4P002. Gender differences in visual perception. Albulena Shaqiri, Andreas Brand, Maya Ronishvili, 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 Kalênine, 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 Loffler
4P007. Alpha7 subunit of the nicotinergic 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
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
Brain games: Extensive action video game experience enhances globally-directed visual-attention. Nicole H. L. Wong, Travis C. M. Ting, Dorita H. F. Chang

Blur Unblurred, for the Vision Scientist. Hans Strasburger, Sven P. Heinrich, Michael Bach

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

From brain oscillations to new technological applications: Proof of concept. Mireia Torralba, Salvador Soto-Faraco, Manuela Ruzzoli

Visual-motor integration in dyslexia. Barbara Piotrowska, Jennifer Murray, Alexandra Willis, Jon Kerridge, Rory MacLean

Attention: tracking

Inattentional Blindness: the role of target-congruency in a multiple object tracking paradigm. Michaela Porubanova, Maria Kuvaldina

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

Multiple identity tracking: evidence that location tracking and identity tracking suffer similarly from spatial interactions. Katie M McLeod, Leili Soo, Soren K Andersen

Attentional (an-)isotropy: differential effects of covert and overt object tracking. Andrea Frielink-Loing, Arno Koning, Rob van Lier

Age and gender effects in attentional tracking. Eugenie Roudaia, Jocelyn Faubert

Biological motion

Infant’s Perception of Biological Motion – a Neurobiological study using Functional Near-Infrared Spectroscopy. Isabel C Lisboa, Helga Miguel, Alfredo F. Pereira, Adriana Sampaio, Sandra Mouta, Jorge A. Santos

Dissociating global and local biological motion processing in the human brain. Dorita H Chang, Hiroshi Ban, Nikolaus F. Troje

Response priming with dynamic, spatially varied, and biologically moving stimuli. David Eckert, Christina Bermeitinger

It’s not human! - Neural correlates of agency violations. Hanna Gertz, Maximilian Hilger, Mathias Hegele, Katja Fiehler

When your movements betray your feelings: Reading emotional state through body kinematics. Yannick Wamain, Anaïs Demay, Yvonne Delevoye-Turrell

The face of actions: Evidence for neural action recognition processes being sensitive for facial identity. Stephan de la Rosa, Ylva Ferstl, Heinrich H Bülthoff

Biological motion presented with upright and inverted display orientation: Human ultra high field 9.4 T fMRI. Marina A Pavlova, Michael Erb, Gisela Hagberg, Alexander Sokolov, Klaus Scheffler

Processing of emotional body language within the visual social cognition network. Arseny A Sokolov, Michael Erb, Frank Pollick, Richard SJ Frackowiak, Karl J Friston, Marina A Pavlova
Clinical
4P035. Impaired visual competition in patients with homonymous visual field defects. Anna Geuzebroek, A.V. Van den Berg
4P036. Neural correlates of visual backward masking: Compensation mechanism in relatives of schizophrenia patients. Janir Nuno da Cruz, Maya Roinishvili, Eka Chkonia, Patricia Figueiredo, Michael Herzog
4P037. Evidence for a Face Inversion Effect in People with Parkinson's. Louise S Delicato, Joanna Wincenciak, David Burn
4P038. The role of optical and morphological characteristics of the human eye in detection of objects in different visual tasks. Olga Vakhrameeva, Galina Moiseenko, Aino Lamminpia, Dmitriy Maltsev, Mikhail Sukhinin, Sergey Pronin, Sergey Koskin, Yuri Shelepin
4P039. Transfer of induced preferred retinal locus of fixation among visual tasks. Maria J Barraza Bernal, Katharina Rifai, Siegfried Wahl
4P040. The integration of gaze cues in faces for congenital prosopagnosia. Leia Vrancken, Filip Germeys, Karl Vertaillie
4P042. How does glaucoma affect visual categorization of objects? Quentin Lenoble, Jia Jia Lek, Allison M. McKendrick
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