

## CIP09, Azurém, Portugal

### Preliminary Scientific Program

#### Wednesday 8th July

8:30 - 9:00 AM	Welcome Desk Open
9:00 – 9:30 AM	Opening of the Symposium

#### *Symposium Biological Motion*

Moderator: Jorge Santos

9:30 – 10:30 AM	<i>Recognition of body motion: from visual sequence analysis to structured dynamic motor representations.</i>  Martin Giese (Invited Speaker)
10.30 – 11:00 AM	Coffee Break
11:00 – 11:20 AM	<i>Multimodal perception and action in biological motion</i>  Santos, J.A, Mouta, S., Mendonça, C. & Ferreira, J.
11:20 – 11:40 AM	<i>Translational biological motion stimuli for perceptual research</i>  Aragão, B., Fontes, L., Pereira, R., Santos, J., Soares, E. & Correia, M.V.
11:40 – 12:00 AM	<i>Neural correlates of 2D and 3D biological vs non-biological object perception: psychophysics, and neurophysiology</i>  Graewe, B., Farivar, R., Weerd, P. & Castelo Branco, M.
12:00 – 12:30 PM	Visit to the Laboratory of Visualization and Perception

12:30 – 2:30 PM Lunch

### ***Symposium Visual Illusions and Complexity***

Moderator: Enric Munar

- 2:30 – 2:45 PM *Illusions and illusionists: how to fool the brain with magic and other tricks*; Susana Martínez-Conde
- 2:45 – 3:00 PM *Visual complexity and beauty*; Marcos Nadal & Enric Munar
- 3:00 – 3:15 PM *Adjustment strategies in the Vertical-Horizontal illusion*; José E. García-Albea, Daniel Rivera, José M. Gavilán, Marc Guasch y Josep Demest
- 3:15 – 3:30 PM *What drives the first dominance phase in binocular rivalry?*; Blanco, F. Valle-Inclán, J. Corral, I. Serrano-Pedraza
- 3:30 – 3:45 PM *Illusory reverse-motion caused by converging moving objects*; Alejandro Maiche1, Rubén Budelli & Leonel Gómez-Sena
- 3:45 – 4:00 PM *Three factors in visual complexity*; Enric Munar & Marcos Nadal
- 4.00 – 4:30 PM Coffee Break

### ***Visual Perception***

Moderator: Miguel Castelo-Branco

- 4:30 – 4:45 PM *Ambivalence and ambiguity in facial expression of emotions*; María Fernández Cahill & Luis Aguado Aguilar
- 4:45 – 5:00 PM *Modulation of perceptual processing by the affective meaning of faces: an ERP (event-related potentials) study*; Berenice Valdés-Conroy, Luis Aguado, Teresa Dieguez Risco, Sonia Rodriguez & F.J. Román

- 5:00 – 5:15 PM *Neural correlates of ambiguous face detection*; João Castelhana, José Rebola, Eugenio Rodriguez, Britta Grawe & Miguel Castelo-Branco
- 5:15 – 5:30 PM *Perception of radial motion relies on detecting spatial displacements*; Cristina de la Malla & Joan López-Moliner
- 5:30 – 5:45 PM *Learning to listen through another person's ears: a study of learning curves using non-individualised Head-Related Transfer Functions*; Santos, J.A. , Mendonça, C. , Murteira, C., Ferreira, J.P., Dias, P. & Campos, G.
- 5:45 – 7:00 PM Posters and Reception

## **Thursday 9th July**

- 9:00 – 9:30 AM Welcome desk open

### ***Symposium Colour Vision***

Moderator: Julio Lillo

- 9:30 - 10:30 AM *Colour Categories in Infancy and Early Childhood*  
Anna Franklin (Invited Speaker)
- 10.30 – 11:00 AM Coffee Break
- 11:00 – 11:15 AM *A categorical colour effect in the brown-orange boundary*; J. Lillo, A. Al-Rasheed & H. Moreira

- 11:15 – 11:30 AM *The Relationship Between Categorical Colour Perception and Shift Towards Prototype*; Ian Davies & Emre Özgen
- 11:30 – 11:45 AM Colour Categorical Perception and Colour Metrics; Oliver Wright
- 11:45 – 12:00 AM *Category training affects colour discrimination*; Gilda Vasiliki Drivonikou, Alexandra Clifford, Anna Franklin, Emre Özgen & Ian Davies
- 12:00 – 12:15 PM *Chromatic diversity of indoor scenes rendered with CIE illuminants and white LEDs*; Linhares, João MM, Felgueiras, Paulo ER, Pinto, Paulo D & Nascimento, SMC
- 12:30 – 2:30 PM Lunch

### ***Symposium Temporal Aspects of Perception***

Moderator: Joan López-Moliner

- 2:30 – 2:45 PM *The role of temporal processing and feedback in visual attention and awareness*; Stephen L. Macknik
- 2:45 – 3:00 PM *Reaction time used as a mean to asses perceptual latencies in cortical motion processing*; L. Gomez-Sena, R. Budelli & A. Maiche
- 3:00 – 3:15 PM *Physiological influences on the rate of subjective time – the case of hypercapnia*; D.T. Field, C. Whyborn & C.A. Scott
- 3:15 – 3:30 PM *Time in motion: speed channels and the colour-motion asynchrony*; Joan López-Moliner & Daniel Linares
- 3:30 – 4:00 PM Coffee Break

### ***Symposium Touch: Behavioral Data and Brain Activations***

Moderators: Soledad Ballesteros & y José Manuel Reales

- 4:00 – 4:20 PM *A descriptive model of horizontal gradient and oblique effect in the haptic parallelity task*; Marcos Fernández & David Travieso
- 4:20 – 4:40 PM *The Haptic Horizontal-Vertical Illusion Across Adulthood*; Morton A. Heller, Julia Mayas, José Manuel Reales & Soledad Ballesteros
- 4: 40 – 5:00 PM *Neural correlates of textured stimuli using a discrimination task: An electrophysiological study*; Francisco Muñoz, Manuel Sebastián, José Manuel Reales & Soledad Ballesteros
- 5:00 – 6:00 PM Posters

## **Friday 10th July**

- 9:00 – 9:30 AM Welcome desk open

### ***Symposium Hearing and Speech***

Moderator: Luis Enrique Lopez Bascuas

- 9:30 – 10:30 AM *The role of acoustic scale in the perception of musical notes and instruments*  
Roy Patterson (Invited Speaker)
- 10:30 – 11:00 AM Coffee Break
- 11:00 – 11:15 AM *Auditory Discontinuities and the Perception of Vowel Height in Spanish Back Vowels*; Luis E. López-Bascuas

- 11:15 – 11:30 AM *Psychoacoustical verification of current theories on the generation of human distortion product otoacoustic emissions;* E.A. Lopez-Poveda & P.T. Johannesen
- 11:30 – 11:45 AM *Vowel formant structure and speaker identification. A perceptual study;* M<sup>a</sup> José Albalá, Elena Battaner, Juana Gil, Joaquim Llisterri, María Machuca, Victoria Marrero, Carme de la Mota, Montserrat Marquina & Antonio Ríos
- 11:45 – 12:00 AM *Asymmetry in Auditory Priming: Evidence from the Perception of Words, Sounds, and Talkers;* Julio Gonzalez Alvarez & Conor T. M<sup>c</sup>Lennan
- 12:00 – 12:30 PM Business Meeting & Closing
- 12:30 – 2:30 PM Lunch

## Posters

1. *Psychophysical correlates of bias in decision-making;* Pardo-Vázquez J.L, Padrón, I., Fernández-Rey, J., Leborán V. & Acuña C.
2. *Does illusory surface inclination affect eye movements?;* Laura Pérez Zapata, Antonio Aznar-Casanova & Hans Sùper
3. *How does illusory surface inclination affect the accuracy of orientation judgements?;* Laura Pérez Zapata, Manuel Moreno, Hans Super & Antonio Aznar-Casanova
4. *The position of a reference matters when judging egocentric distances;* R. Sousa, E. Brenner & J. B. J. Smeets
5. *Classification of face gender and expression in different spatial frequency bands;* L. Aguado, S. Rodríguez, F. J. Román, & I. Serrano-Pedraza
6. *Facilitation of object recognition: An effect of contextual cueing;* Marieke van Asselen, Joana Sampaio & Miguel Castelo-Branco
7. *Perceptual learning in humans: the use of same/different tasks;* P. P. Faria & P. B. Albuquerque
8. *Visual chimaeras;* V. Sierra-Vázquez & I. Serrano-Pedraza

9. *An exploratory study of diverse methodological factors related with the perception of beauty*; Patricio Bustos, Julia Christensen, Nadine Gut, Albert Flexas, Marcos Nadal, & Enric Munar.

10. *The neural bases of the perception of beauty: Differences and similarities between men and women*; A. Flexas, J. Christensen, N. Gut, M. Nadal, P. Bustos & E. Munar.

11. *Eye movement patterns during the scanning of emotional images*; Cabestrero, R., Quirós P., Crespo, A. & Conde-Guzón, P. A.

12. *Exploratory Eye Movements and the Müller-Lyer Illusion*; A. Díaz, M.P. Aivar & D. M. Jacobs

13. *What fixations reveal about perceptual styles*; Maria Solé Puig, Laura Pérez Zapata, Antonio Aznar Casanova & Hans Super





## Posters

1. *Modelling the effect of stimulus space on measured cell responses*; Hansen, T., & Conway, B.R.
2. *Comparison of the contrast and size response functions of the magno-, parvo- and koniocellular pathways in human visual cortex*; Ribeiro, M.J. & Castelo-Branco, M.
3. *Age-related changes in temporal S-cone ON- and OFF-pathways*; Werner, J.S. & Shimomori, K.
4. *The intensity threshold of colour vision in two species of parrot*; Lind, O. E. & Kelber, A.
5. *Opsin divergence and retinal regionalization in the visual system of the cricket (*Gryllus bimaculatus*)*; Henze, M.J., Gesemann, M., Dannenhauer, K. & Labhart, T.
6. *Spectral sensitivity in the harbor seal *Phoca vitulina*: Facts and open questions*; Scholtyssek, C., Kelber, A. & Dehnhardt, G.
7. *Spatial Organisation of the Cone Photoreceptor Mosaic of the Domestic Chicken (*Gallus gallus*)*; Wilkins, L., Osorio, D. & Hart, N.
8. *Spectral responses and cone inputs of horizontal cells in the retina of grass carp *Ctenopharygodon idellus**; Fukurotani, K. & Thanapatay, D.
9. *Constructing a colour-difference acceptability scale*; de Laborie, B., Viénot, F. & Langlois, S.
10. *New structure for a physiological model of colour appearance*; Chorro, E., Perales, E., Martínez-Verdú, F.M., de Fez, M.D., Capilla, P. & Luque, M.J.
11. *Connecting disciplines to ground a design study. An emotional response to clothing and colour*; Couto, A.C.B.V. & Durão, M.J.
12. *Visual Communication and Inclusive Design – Colour, Legibility and Aged Vision*; Pinheiro, M.C.

13. *Is natural variation in image spectra partly responsible for the lower population density of S-cones?*; Wilkins, A., Jansons, K., Parraga, A., Linhares, J., Troscianko, T., Yoonessi A. & Kingdom, F.
14. *Accuracy of photometric stereo with textures calibration samples*; Plata, C., Nascimento, S.M.C., Nieves, J.L.
15. *A behavioural investigation of human visual short term colour memory*; Nemes, V.A., Parry, N.R.A. & McKeefry, D.J.
16. *Basic colour names for 2D samples: Effects of presentation media and illuminants*; Monika Hedrich, M. & Bloj, M.
17. *Perceptual antinomies due to the watercolor illusion: How does the brain solve them? The problem of visual wholeness*; Tanca, M., Grossberg, S. & Pinna, B.
18. *The role of Petter's rule in explaining illusory contours and neon color spreading*; Albertazzi, L. & Pinna, B.
19. *Attentional Modulation of Chromatic Onset Visual Evoked Potentials*; Crognale, M.A. & Highsmith, J.
20. *How does the color influence grouping, numerosness, reading and calculation? The role of chromatic wholeness and parcelling-out*; Uccula, A., Tanca, M. & Pinna, B.
21. *Differential color congruency effects across metacontrast and object substitution masking in equiluminant viewing conditions*; Mereu, S. & Lleras, A.
22. *Difference of a colour contrast effect in 3-dimensional layout and 2-dimensional layout*; Shinomori, K., & Yoshida, M.
23. *Very-long-chromatic adaptation and short-term chromatic adaptation: same or different mechanisms?*; Belmore, S. & Shevell, S.
24. *Unique hues in the near peripheral retina; matching vs naming*; Panorgias, A., Kulikowski, J.J., Parry, N.R.A., McKeefry, D.J. & Murray, I.J.
25. *Surface color matching under mesopic illumination*; Knight, R., Turner, N. & Knight, E.
26. *Variation of chromatic discrimination thresholds with luminance and state of chromatic adaptation*; Jennings, B. J. & Barbur, J. L.

27. *Effect of the peak sensitivity wavelength of the photopigments on object colour;* Logvinenko, A. D.
28. *Pupil colour responses in patients with congenital and acquired hemianopia;* Jindahra, P., Bi, W., Barbur, J.L. & Plant, G.T.
29. *Colorimetric comparison of the non-laminated and laminated 4th edition HRR color vision tests;* Lee, D.Y., Mok, M., & Yam, J.
30. *VEP to red-green stimulation in colour deficient children;* Pompe, M.T, Kranjc, B.S & Brecelj, B.
31. *The parallel visual pathways in Parkinson's disease;* Barboni, M.T.S., Feitosa-Santana, C., Moura, A.L.A., Felix, M.M., Aguiar, P.M.C., Oiwa, N.N., Gualtieri, M., Costa, M.F., Ferraz, H.B., Andrade, L.A., Barbosa, E.R., Amaro Jr., E., Silveira, L.C.L. & Ventura, D.F.
32. *Genetic and psychophysical evaluation of color vision in a large pedigree of Leber's Hereditary Optical Neuropathy of the 11778/ND4 mtDNA mutation;* Bonci, D.M.O., Neitz, M., Neitz, J., Gualtieri, M., Oliveira, A.G.F., Moura, A.L.A., Barboni, M.T., Costa, M.F., Salomão, S.R., Berezovsky, A., Sadun, A., Carelli, V. & Ventura, D.F.
33. *Simulating monocular vs. binocular perceptions of chromatic images in pathological subjects;* Perales, E., García-Domene, M. C., de Fez, M. D., Luque, M. J. & Capilla, P.
34. *Multispectral analysis of colour deficiency tests and modelling of cones influence on test perception;* Martín, I., Fomins, S. & Ozolinsh, M.
35. *Trichromatic and Dichromatic Relative Sensitivity to Green Light in Mild Hypoxia;* Hovis, J.K. & Milburn, N.
36. *The colour change in cyanosis and its relationship to the confusions of congenital colour vision deficient observers;* Dain S.J., McNamara R., Taylor C.M., McKenzie D.K. & Coroneo, M.T.



