47th European Conference on Visual Perception 2025

Scientific Program

Mainz, Germany

24 – 28 August 2025

Schedule ECVP 2025

	Aug 24th Sunday	Aug 25th Monday	Aug 26th Tuesday	Aug 27th Wednesday	Aug 28th Thursday
08:00					
09:00		Talks / Symposia	Talks / Symposia	Talks / Symposia	Talks / Symposia
10:00	Workshops & Warm-ups	Posters & Coffee break	Posters & Coffee break	Posters & Coffee break	Posters & Coffee break
11:00		Talks / Symposia	Talks / Symposia	Talks / Symposia	Talks / Symposia
12:00		Lunch break	Lunch break	Lunch break	Lunch break
13:00		Talks / Symposia	Talks / Symposia	Talks / Symposia	Talks / Symposia
14:00			Posters & Coffee break	Posters & Coffee break	Posters & Coffee break
15:00		Posters & Coffee break	Spotlight in Vision	Rank Prize Lecture	Business Meeting
16:00	Registration opens	*Surprise event*			
17:00	Conference Opening & Perception Lecture				
18:00	Welcome Reception	PerceptioNite	Illusion & Demo Night	Conference Dinner	Farewell Party
19:00					
20:00					
21:00					
22:00					
23:00					

Contents

Sunday, 24th August

Perception Lecture

18.00 – 19:30 (State Theatre)

Exploring haptic perception

Astrid Kappers

Eindhoven University of Technology

Monday, 25th August

Talk Session 1 – Perceptual Organization

08.30 – 10.00 (Left Aula)

Not Just Where You Land, But How You Get There: Transition Plausibility in Multistable Perception

Alexander Pastukhov; Svenja Dorothee Kühner; Lea Jana Kolbe; Lisa Marlen Hahn; Claus-Christian Carbon

University of Bamberg

Strong and highly similar ERP correlates of perceptual uncertainty processing across stimulus categories, stimulus visibility and stimulus complexity

Jürgen Kornmeier[1]; Ellen Joos[1]; Lukas Hecker[1]; Ludger Tebartz van Elst[2]; Kriti Bhatia[3]

[1] Institute for Frontier Areas of Psychology and Mental Health; [2] Medical Center, University of Freiburg; [3] University of Tübingen

Modeling and Measurement of Perceptual Transitions: A No-Report Approach to the Bistable Motion Quartet

Daniel van der Meer; Michael Nunez; Raoul Grasman; Simon van Gaal; Han van der Maas

University of Amsterdam

Does age constrain perceptual organization? Eye tracking evidence from grassroots sports

Jurgis Skilters[1]; Līga Zariņa[1]; Evita Šerpa[1]; Solvita Umbraško[1]; Laura Zeļģe[1]; Santa Bartušēvica[1]; Baingio Pinna[2]

[1] University of Latvia; [2] University of Sassari

Late cortical response underlying the symmetry-induced numerosity underestimation illusion

Elisa Castaldi; Roberto Arrighi; Alessandro Benedetto

University of Florence

Talk Session 2 – Computational Modeling

08.30 – 10.00 (Atrium Maximum)

CHARM: Bridging Human Perception and Computer Vision for Aesthetics

Fatemeh Behrad; Tinne Tuytelaars; Johan Wagemans

KU Leuven

Benchmarking Gaze-Shift Event Detection Methods in Dynamic Natural Viewing

Ashkan Nejad

Royal Dutch Visio

Decoding the orientation serial dependence effects from V1 neuronal responses using a transformer model

Xin Wang; Shiming Tang; Cong Yu

Peking University

Trajectory Modelling the Rapid Chase Theory

Jia Li[1]; Maximilian P. Wolkersdorfer[2]; Thomas Schmidt[2]; Cees van Leeuwen[1]; Thomas Lachmann[2]; Omar Jubran[2]

[1] KU Leuven; [2] RPTU University of Kaiserslautern-Landau

Glimpse prediction fosters graph-oriented scene representations aligned with the ventral visual cortex

Sushrut Thorat[1]; Adrien Doerig[2]; Alexander Kroner[1]; Carmen Amme[1]; Tim Kietzmann[1]

[1] Osnabrück University; [2] Freie Universität Berlin

Emerging 2D patterns of distributions of neural activity of V1 cells may underlie a class of orientation illusions: a computational model and simulations

Dejan Todorovic

University of Belgrade, Laboratory of Experimental Psychology

Talk Session 3 – Ecological

08.30 – 10.00 (Lecture Hall HS19)

Plant awareness disparity in numerosity judgments: evidence from comparison and estimation tasks

Marco Roccato[1]; Carolina Maria Oletto[1]; Silvia Guerra[1]; Silvia Marchese[2]; Sofia Soardi[1]; Luca Battaglini[1]

[1] University of Padua; [2] IUAV University of Venice

'Eat or Leave?': Natural warning patterns are effective visual deterrents for human observers

Federico De Filippi[1]; Olivier Penacchio[1,2]; David I. Perrett[1]; Akira R. O'Connor[1]; Julie M. Harris[1]

[1] University of St Andrews; [2] Universitat Autònoma de Barcelona, Computer Vision Center

Unconscious fear requires attention to distort vision in safe context

Xilei Zhang[1]; Xiqian Wu; Yi Jiang; Liang Wang

[1] IPCAS

The role of visual awareness and specific phobias in physiological reactions to evolutionary threatening animals

Irene Sperandio[1]; Cecilia Dapor[1]; Giosuè Addis[1]; Philippe A. Chouinard[2]; Federica Meconi[1]

[1] University of Trento; [2] La Trobe University

Using virtual reality to test the ecological validity of working memory models

Ilmari Kurki

University of Helsinki

Talk Session 4 – Clinical Vision I

08.30 – 10.00 (Audimax)

Altered Crossmodal Correspondences in Autism

Inbar Leon; Ofir Kaplan; Bat-Sheva Hadad

University of Haifa

Potential of Saccadic Eye Movement Tasks in Measuring Executive Function Domains: Toward Improving Diagnosis

Zahra Khorami; Sarah Gunn; Victoria A. McGowan

University of Leicester

Eye movement tasks can predict cognitive decline in preclinical stages of dementia

Thomas Wilcockson

Loughborough University

Oculometric markers of PTSD severity on the anti-saccade and irrelevant singleton search tasks

Doug Barrett[1]; Samantha Tyler[2]; Joshua Black[1]

[1] University of Leicester; [2] University of Birmingham

Emotional Change Blindness in Low/High Trait Anxious and Repressive Individuals

Özlem Ertan

Ankara Medipol University

Symposium Session 1 – The social symphony of gaze: New perspectives on eye contact behaviour

08.30 – 10.00 (Lecture Hall P1)

An automated method for multi-person mobile eye-tracking in natural contexts involving shared gaze goals

Shreshth Saxena; Lauren Fink

McMaster University

Social gaze in video conferencing

Nikolaus F. Troje; Kristen Lott; Zahra Hosseini; Nicholas Logan Niko

York University

Who Looks, When, and Why? Linking gaze behaviors in natural interactions with group and individual social function

Florence Mayrand; Jelena Ristic

McGill University

Decoding Joint Action Success Through Eye Movements: A Data-Driven Approach

Prasetia Utama Putra; Fumihiro Kano

University of Konstanz

The early emerged sensitive to social signals and gaze interactions between mother-infant interactions

Sara Ripley; Wei Fang; Gabriel (Naiqi) Xiao; Laurel Trainor

McMaster University

Poster Session 1

10.00 – 11.30 (Foyer)

1 Comparisons of temporal binding window width between types of crossmodal correspondences

Yasuhiro Takeshima

Hosei University

3 Evaluating the WikiArt Dataset using Quantitative Image Properties, Ratings, and Art History

Lisa Koßmann[1]; Stefanie De Winter[1,2]; Jitse Woussen[1]; Christophe Bossens[1]; Johan Wagemans[1]

[1] Laboratory of Experimental Psychology, Department of Brain and Cognition, University of Leuven (KU Leuven); [2] Department of Art History, University of Leuven (KU Leuven)

5 **Human-Like Gaze Patterns Enhance Robot Likability and Perceived Empathy: New Insights into the Uncanny Valley Effect**

Su-Ling Yeh[1]; Te-Yi Hsieh[1]; Pai-He Hsiao[1]; Chia-Hui Pan[2]; Yu Fang[3]

[1] National Taiwan University; [2] National Taiwan Normal University; [3] Honda Research Institute

7 **Distinguishing a central selection bias from a central fixation bias: the role of retinal eccentricity in visual selection**

Zirui Gu; Christian N.L. Olivers; Mieke Donk

VU Amsterdam

9 **Beyond Expectations: Nocebo Suggestion Affects Cognitive Performance in Older Adults**

Alessandra Barbon[1]; Bernardo Villa-Sánchez[2]; Mirta Fiorio[3]; Sara Assecondi[1]; Veronica Mazza[1]

[1] Università degli Studi di Trento; [2] Arizona State University; [3] Università di Verona

11 **Feedback processing conveying surrounding scene context in occlusion paradigm depends on early visual experience**

Carolin Heitmann[1]; Minye Zhan[2]; Madita Linke[1]; Ramesh Kekunnaya[3]; Rick Van Hoof[4]; Rainer Goebel[4]; Brigitte Röder[1]

[1] Universität Hamburg, Institut für Psychologie; [2] Sarbonne Université; [3] L. V. Prasad Eye Institute; [4] Maastricht University

13 **Smooth Eye Movements and Perceptual Alternations in an Ambiguous Kinetic Depth Effect (KDE) Stimuli**

Anna Montagnini; Liubov Ardasheva

CNRS and Aix-Marseille University

15 **From Repulsion to Attraction: Object Priority Drives Distinct Memory Biases in Visual Working Memory**

Stefan Kalanoski[1]; Aytac Karabay[1,2]; Chaipat Chunharas[3,4]; Daryl Fougnie[1]

[1] New York University Abu Dhabi; [2] University of Birmingham Dubai; [3] Chulalongkorn University; [4] University of California San Diego

17 **Geographic information of memorized places is represented in the parietal memory network**

Nina Bana Khatibi; Neda Afzalia; Reza Rajimehr

Institute for Research in Fundamental Sciences (IPM)

19 **Dual gaze behavior in autism during real-life social interaction**

Laura Tibermont[1]; Ruth Op de Beeck[1]; Rowena Van den Broeck[1]; Lisa Gistelinck[1]; Stephanie Van der Donck[1]; Roy Hessels[2]; Kaat Alaerts[3]; Bart Boets[1]

[1] Center for Developmental Psychiatry, KU Leuven, Belgium ; [2] Department of Experimental Psychology, Utrecht University, The Netherlands; [3] Neuromodulation Laboratory, KU Leuven, Belgium

21 **EEG-Based Neural Representations of Visually Guided Reaching and Placement Movements**

Petros Georgiadis; Erez Freud; Peter Kohler; Douglas Crawford

York University

23 **Evaluating ideal observers for large target identification tasks under additive white noise**

Can Oluk[1]; Wilson Geisler[2]

[1] École Polytechnique Fédérale de Lausanne (EPFL); [2] University of Texas at Austin

25 **MEG signals predict capacity limitations in working memory**

Philipp Deutsch[1]; Benjamin Peters[2]; Cora Fischer[1]; Jochen Kaiser[1]; Christoph Bledowski[1]

[1] Goethe University Frankfurt; [2] University of Edinburgh

27 **Spontaneous recovery of saccadic adaptation explained by a postdictive model**

Max Johann Schuhriemen; Jana Masselink; Markus Lappe

Universität Münster

29 **Multimodal retinal assessment of glaucomatous damage – analysis of structure, function, and vasculature**

Moein K. Tavakoli[1]; Khaldoon Al-Nosairy[1]; Francie H. Stolle[1]; Michael B. Hoffmann[1,2]

[1] Department of Ophthalmology, Otto-von-Guericke University, Magdeburg, Germany ; [2] Center for Behavioral Brain Sciences, Magdeburg, Germany

31 **Neurodynamical model of action-perception coupling for hand movements**

Martin A. Giese; Xinrui Jiang

University Clinic Tübingen , HIH / CIN

33 **Bayesian Comparisons Between Representations**

Heiko Schütt

Université du Luxembourg

35 **Introducing the DynaGrid. Development, Evolution, and Validation of a New Consumer Research Method based on Perception**

Lotta Straube; Alexander Pastukhov; Anna Heuschkel; Lisa Alexandra Gromer; Claus-Christian Carbon

Otto-Friedrich-University Bamberg

37 **Multiple Spine Drift Illusion**

Bernd Lingelbach[1]; Nicholas Wade[2]; Akiyoshi Kitaoka[3]

[1] The Barn - Optical Phenomena; [2] University of Dundee ; [3] Ritsumeikan University

39 **Predictive processing in autism: A meta-analysis of functional magnetic resonance imaging results**

Hjalmar Nobel Norrman[1]; Yating Huang[1]; Annelies van't Westeinde[1,2]; Tessa van Leeuwen[3,4]; Peter Fransson[1]; Sven Bölte[1,5,6]; Janina Neufeld[1,7]

[1] Karolinska Institute; [2] Karolinska University Hospital; [3] Tilburg University; [4] Radboud University; [5] Curtin University (CU); [6] Region Stockholm (RS); [7] Swedish Collegium for Advanced Study

41 **Untypical scene exemplars are easier to remember, but harder to categorize**

Charlotte Atzert[1]; Filip Děchtěrenko[2]; Jiří Lukavský[2]; Niko A. Busch[1]

[1] University of Münster, Institute of Psychology; [2] Czech Academy of Sciences, Institute of Psychology

43 **The influence of spatio-temporal and feature information on visual apparent motion perception in 5–7-year-old children**

Elisabeth Hein; Bettina Rolke; Madeleine Yvonne Stepper

University of Tübingen

45 **Task status of items determines repulsive and attractive serial dependence in working memory**

Saskia Fohs; Cora Fischer; Jochen Kaiser; Christoph Bledowski

Goethe Universität Frankfurt am Main

47 **Increased motion coherence thresholds in individuals with higher attention to detail autistic traits - but not compared to their co-twins and irrespective of sequence-colour synaesthesia**

Janina Neufeld[1]; Tessa M. Van Leeuwen[2]; Hjalmar Nobel Norrman[1]; Yating Huang[1]; Manuel Oliva[1]

[1] Karolinska Institutet; [2] Tilburg University

49 **Perceived Animacy from Global and Local Image Distortions**

Yunus Emre Türkmen[1]; Görkem Baysal[1]; Katja Doerschner[2]; Dicle Dövencioğlu[1]

[1] Middle East Technical University; [2] JLU Giessen

51 **The inversion effect in implied motion of children**

Riku Umekawa[1]; So Kanazawa[2]; Masami K. Yamaguchi[1]

[1] Chuo University; [2] Japan Women's University

53 **Foraging for Biological Motion: Do cross-modal auditory cues affect performance?**

Ivan Makarov[1]; Tram T. N. Nguyen[2]; Runar Unnthorsson[1]; Árni Kristjánsson[1]; Ian M. Thornton[2]

[1] University of Iceland; [2] University of Malta

55 **Illuminating the unconscious: The impact of physical and perceived brightness on visual awareness**

Hirotaka Senda; Michael Makoto Martinsen; Hideki Tamura; Shigeki Nakauchi; Tetsuto Minami

Toyohashi University of Technology

57 **Culture Shapes Ensemble Perception of Facial Expressions**

Toshiki Saito[1]; Sotaro Taniguchi[2]; Pauline Schaller[1]; Katsumi Watanabe[2]; Roberto Caldara[1]

[1] University of Fribourg; [2] Waseda University

59 **Noise masking effects on body expression perception**

Chia-Chen Yang[1]; Cheng-Hsuan Chen[1]; Chih-Hsuan Wu[1]; Miao Cheng[2]; Satoshi Shioiri[2]; Chiahuei Tseng[2]; Chien-Chung Chen[1]

[1] National Taiwan University; [2] Tohoku University

61 **Embodiment in Visually Guided Braking: Effector-Dependent Variability in Proportional Rate Control**

Didem Kadihasanoglu[1]; Xiaoye Michael Wang[2]; Irmak Oztan[1]; Cennet Bengisu Kostak[1]; Deniz Yilmaz[1]

[1] TOBB University of Economics & Technology; [2] University of Toronto

63 **Extrapolation of Visual Features Occurs Early and Induces Crowding**

Hazal Sertakan

University of Florence

65 **Does increased alertness improve distractors' rejection?**

Tomer Sahar; Tal Makovski

The Open University of Israel

67 **Face Perception Beyond Western Cultures: A Preliminary Study on Face-Part Identification**

Kohske Takahashi[1]; Nobu Inazumi[2]; Masaki Shimada[3]; Takanori Oishi[4]; Kun Qian[5]; Xiaojie Tian[6]

[1] Ritsumeikan University; [2] JSPS Nairobi Research Station; [3] Teikyo University of Science; [4] Tokyo University of Foreign Studies ; [5] Kyushu University; [6] University of Tsukuba

69 **The relationship between facial expression and color: Investigating their interaction in selective attention using event-related potentials**

Yuya Hasegawa; Hideki Tamura; Shigeki Nakauchi; Tetsuto Minami

Toyohashi University of Technology

71 **Spatiotemporal processing in poor readers and its relation to fixational eye movements**

Bader Almagren; Simon Rushton; David Whitaker; Matt Dunn

Cardiff University

73 **Perceptual Strategies for Extrapolating Noisy Visual Trajectories**

Olga Polezhaeva[1]; Stefan Glasauer[2]; Michel-Ange Amorim[1]

[1] Université Paris-Saclay, Inria, CIAMS; [2] Brandenburg University of Technology Cottbus-Senftenberg

95 **Pupillometry during social gaze: Face-to-face vs video-communication**

Kristen Lott; Zahra Hosseini; Nicholas Logan; Nikolaus F. Troje

York University

97 **Selective attention and audiovisual synchrony independently and interactively enhance visual processing**

Jieru Chen[1]; Wenjie Liu[2]; Shiqi Tan[1]; Xiangyong Yuan[1]; Yi Jiang[1]

[1] Institute of Psychology, Chinese Academy Sciences; [2] Beijing Huilongguan Hospital

99 **Idiosyncratic biases in audiovisual simultaneity and temporal order judgments**

Yuki Murai

National Institute of Information and Communications Technology, Center for Information and Neural Networks

101 **Exploring the role of pupil dilation in perception of crowded stimuli in different cognitive tasks**

Frol Sapronov; Anke Huckauf

Ulm University

103 **Temporal dynamics of three-dimensional natural scene perception in the human brain**

Taiki Orima; Ban Hiroshi

National Institute of Information and Communications Technology

105 **Structure Learning and its Flexibility for Transfer Across Contexts**

Rui Wang[1]; Zhihan Gao[1]; Zichao Liu[2]; Yiru Bao[1]; Zoe Kourtzi[3]; Yi Jiang[1]

[1] Chinese Academy of Sciences; [2] Beijing Normal University; [3] University of Cambridge

107 **4-Dot Masking is not Modulated by Similarity – A Challenge for Object Updating**

Josephine Reuther; Uwe Mattler

Georg-August University Göttingen, Georg-Elias-Müller Institute for Psychology

Talk Session 5 – Eye Tracking I

11.30 – 13.00 (Left Aula)

Adapting saccades backwards and forwards: do opposites interact?

Patrik Polgári; Alexander C. Schütz

University of Marburg

A Communication Support System Based on Pupillary Responses to Object-Based Visual Attention in Dynamic Hybrid Stimuli

Yuhong Lyu; Rumi Hisakata; Hirohiko Kaneko

Institute of Science Tokyo (Tokyo Institute of Technology)

Combining different movie perimetry methods: Learning from simulation data

Henning Schulte[1,2]; Yuqing Cai[3]; Birte Gestefeld[1,2]; Christoph Strauch[3]; Jan-Bernard Marsman[1]; Stephan van der Stigchel[3]; Jeroen Goossens[4]; Teuni ten Brink[5]; Frans W. Cornelissen[2]; Marnix Naber[3]

[1] University of Groningen; [2] University Medical Center Groningen; [3] Department of Experimental Psychology, Utrecht University, The Netherlands; [4] Radboud University, Donders Institute for Brain, Cognition, and Behaviour, Nijmegen, The Netherlands; [5] University Medical Center Utrecht

Reward and sensory errors contribute to oculomotor learning

Frauke Heins; Markus Lappe

University of Münster

Overt Spatial Biases in a concurrent two alternatives choice task

Maximilian Dominik Bernhardt[1]; Simon Enkel[1]; Claudius Hilser[1]; Judith Schepers[1]; Titus von der Malsburg[1]; José Ossandon[2]; Benedikt Valerian Ehinger[1]

[1] University of Stuttgart; [2] University of Hamburg

Talk Session 6 – Social Perception

11.30 – 13.00 (Atrium Maximum)

The foveal input bias in categorical processing of emotion ensemble perception

Yu R. Dandan[1]; Fang Fang[2]; Bilge Sayim[1]

[1] Laboratoire de Sciences Cognitives et Psycholinguistique, Département d'Études Cognitives, École Normale Supérieure (ENS), PSL University, Centre National de la Recherche Scientifique (CNRS), Paris, France; [2] School of Psychological and Cognitive Sciences and Beijing Key Laboratory of Behavior and Mental Health, Peking University, Beijing 100871, People's Republic of China

Shared experience modulates recognition of socially relevant features, but not low-level contrast sensitivity

Nicola Bruno; Clarissa Esposito; Stefano Uccelli

Università di Parma

A lateral occipitotemporal stream for social perception

Violette Munin[1]; Manuel Mello[1]; Céline Spriet[1]; Liuba Papeo[1,2]

[1] Institut des Sciences Cognitives Marc Jeannerod, UMR5229, CNRS; [2] University Lyon 1

Gaze switching as a marker of social interaction during visual exploration of dyads

Cecilia Dapor[1]; Liuba Papeo[2]; Federica Meconi[1]; Irene Sperandio[1]

[1] University of Trento; [2] Institut des Sciences Cognitives Marc Jeannerod, CNRS

Eye movements reveal enhanced social orienting to front-viewed heads

Mario Dalmaso; Anna Lorenzoni; Giovanni Galfano; Marta Riva; Luigi Castelli

University of Padova

Talk Session 7 – Attention I

11.30 – 13.00 (Lecture Hall HS19)

Qualitative Individual Differences in Spatial Attention: Evidence from a Large-Scale Study

Felipe Luzardo; Yaffa Yeshurun

University of Haifa

Does covert visual attention affect retinal responses?

Sebastiaan Mathôt; Ana Vilotijević

University of Gronigen

Gaze and auditory sweeps independently guide visual attention

Wolfgang Einhäuser; Alexandra Bendixen

Chemnitz University of Technology

Covert exogenous spatial attention improves performance similarly across development

Caroline Myers[1]; Marisa Carrasco[2]

[1] Johns Hopkins University; [2] New York University

TMS to the prefrontal cortex disrupts endogenous, but not exogenous, attention

Marisa Carrasco[1]; Qingyuan (Rachel) Chen[1]; Hsing-Hao Lee[1]; Antonio Fernández[1]; Nina Hanning[2]

[1] NYU; [2] Humboldt-Universität zu Berlin

Talk Session 8 – Development & Aging I

11.30 – 13.00 (Audimax)

The Development of High-Level Vision: Mapping and Tracking Changes in Object Foraging across Childhood

Brent Pitchford[1]; Marelle Mäekalle[2]; Inga María Ólafsdóttir[3]; Heida Maria Sigurdardottir[2]

[1] KU Leuven; [2] University of Iceland; [3] Reykjavik University

Head engagement during a natural interception task in aging

Leonard Gerharz[1]; Eli Brenner[2]; Dimitris Voudouris[1]

[1] Justus Liebig University Gießen; [2] Vrije Universiteit Amsterdam

Rapid emergence of visual causality detection following prolonged early-onset blindness

Marin Vogelsang[1]; Lukas Vogelsang[1]; Priti Gupta[2]; Stutee Narang[2]; Purva Sethi[2]; Suma Ganesh[2]; Pawan Sinha[1]

[1] MIT; [2] Dr. Shroff's Charity Eye Hospital

Impaired stabilization of visual perceptual learning with age-related decline in GABAergic processing

Sebastian Frank; Markus Becker; Ricarda Jacob; Antonia Wittmann; Ulrike Frank; Zhiyan Wang

University of Regensburg

Childhood development of hand-selective regions in the ventral and lateral temporal lobe

Selina Cohnen; Marisa Nordt

Kinder- und Jugendpsychiatrie der Uniklinik RWTH Aachen

Symposium Session 2 – From understanding low-level visual processes to tackling key societal challenges – the changing role of vision research

11.30 – 13.00 (Lecture Hall P1)

Neural, Perceptual, and Affective Responses to Variations in Natural Scene Statistics

Branka Spehar

UNSW Sydney

Effects of lower- and higher-level processed properties for the restorativeness of nature and urban images

Claudia Menzel

RPTU University of Kaiserslautern-Landau

Biomarkers of exposure to nature and urban environments

Tadeáš Dvořák; Kateřina Ingrová; Radek Mareček; Filip Zlámal; Julie Dobrovolná

Masaryk University

Visual aesthetic considerations on urban landscapes

Jan Mikuni

Vienna University

Challenging the Nature versus Urban Dichotomy: Aligning research classifications with human visual perception.

Jay Davies; Ute Leonards; Jasmina Stevanov

University of Bristol

Talk Session 9 – Learning & Memory

14.30 – 16.00 (Left Aula)

Stochastic resonance recovers latent feedback signals in visual cortex during working memory maintenance

Noa Noelle Krause; Rosanne Rademaker

Ernst Strüngmann Institute for Neuroscience

Anticipated relevance modulates early visual processing

Lasse Dietz; Samson Chota; Kabir Arora; Stefan van der Stigchel; Christoph Strauch; Surya Gayet

Utrecht University

Neuronal correlates of storing feature-feature bindings in working memory

Anna Zier; Philipp Deutsch; Jochen Kaiser; Christoph Bledowski

Goethe-University Frankfurt

Pupil dilation modulates visual perceptual learning

Savanna Babu; Sebastian Frank

Uni Regensburg

Event Cache: An Independent Component in Working Memory

Jinglan Wu[1]; Hui Zhou; Jiaofeng Li; Zhihe Pan; Jinying Lu; Mowei Shen; Tengfei Wang; Yuzheng Hu; Zaifeng Gao

[1] Zhejiang University

Talk Session 10 – Bias

14.30 – 16.00 (Atrium Maximum)

Serial dependence improves efficiency across multiple levels of visual processing

Fiammetta Marini[1]; Meike Ramon[2]; Julia Föcker[3]; Mauro Manassi[1]

[1] University of Aberdeen; [2] Applied Face Cognition Lab, Bern University of Applied Sciences; [3] University of Lincoln

Serial dependence, but not central tendency, causes behavioral oscillations in peri-saccadic orientation judgements

David Burr[1]; Xon-Yu Xie[2]; Maria Concetta Morrone[3]

[1] University of Florence; [2] East China Normal University; [3] University of Pisa

Enhanced Behavior Through Perceptual Learning in an Untrained Visual Location via Topographic Reorganization

Berk Yüce[1]; Tutku Karahan[1]; Zahide Pamir[1,2]

[1] Department of Neuroscience, Aysel Sabuncu Brain Research Center, Bilkent University, Ankara, Turkiye; [2] Department of Psychology, Aysel Sabuncu Brain Research Center, Bilkent University, Ankara, Turkiye

The influence of temporal context on vision over multiple time scales

Reuben Rideaux; Kacie Lee

The University of Sydney

Motivation biases behavior – not perception

Christian Wolf[1]; Markus Lappe[1]; Hugh Riddell[2]

[1] Universität Münster ; [2] Curtin University

Talk Session 11 – Scene Perception

14.30 – 16.00 (Lecture Hall HS19)

Boundary extension for 3D scenes in virtual reality

Akseli Pullinen[1]; Riikka Mononen[1]; Jaana Simola[2]; Linda Henriksson[1]

[1] Aalto University; [2] University of Helsinki

Object frequency is underestimated in large-scale scene image databases

Sandro L. Wiesmann; Feron Y. Basoeki; Melissa L.-H. Vo

Love of Nature Activates Scene Perception and Memory-Related Brain Areas: An fMRI Study

Linda Henriksson[1]; Juha Lahnakoski[2]; Mikke Tavast[1]; Heini Saarimäki[3]; Mikko Sams[1]; Pärttyli Rinne[1]

[1] Aalto University; [2] Heinrich Heine University Düsseldorf; [3] Tampere University

Classic signatures of category-selective regions emerge in self-supervised models

Daniel Janini; Radoslaw Cichy

Freie Universität Berlin

Memory-based perception of objects in scenes

Marco Gandolfo; Marius Peelen

Radboud University

Talk Session 12 – Clinical Vision II

14.30 – 16.00 (Audimax)

Temporal Perception and The Interplay of Psychosis Proneness and Autistic Traits: Insights from Response Surface Analysis

Roy Ramati; Yaffa Yeshurun; Ahmad Abu-Akel

University of Haifa

Magnocellular Deficits in the Tecto-Pulvinar Pathway of Children with Dyslexia

Yuzhu Ji; Yazhu Qian; Yue Wang; Junjun Li; Yizhen Li; Hong-Yan Bi; Peng Zhang

Characterizing Gaze Patterns in Cerebral Visual Impairment: Insights from Visual Search and Exploration Tasks

Nilsu Sağlam[1]; Lotfi B. Merabet[2]; Zahide Pamir[3]

[1] Department of Psychology, Bilkent University, Ankara, Türkiye; [2] Massachusetts Eye and Ear, Harvard Medical School, Boston, USA; [3] Department of Psychology & Department of Neuroscience; Aysel Sabuncu Brain Research Center, Bilkent University, Ankara, Türkiye

Neural Dynamics of Unconscious Mind-reading: Cue-Sensitive Frontal and Autistic Trait-Modulated Temporal Alpha Oscillation

Fang Yang; Yi Jiang

Institute of Psychology, Chinese Academy of Sciences

Limited temporal vision recovery in congenital rod-monochromacy following treatment

Ayelet McKyton; Deena Elul; Devora Marks Ohana; Eyal Banin; Netta Levin

Haddassh Hebrew University Hospital

Symposium Session 3 – Temporal dependence on visual perception: Quo vadis?

14.30 – 16.00 (Lecture Hall P1)

Time, space, and feature similarity determine repulsive and attractive serial biases in trustworthiness impressions

Mauro Manassi[1]; Fiammetta Marini[1]; Linda Jeffery[2]; Clare Sutherland[1]

[1] University of Aberdeen; [2] The University of Western Australia

Cognitive and retinal components of serial dependence in oculomotor control

Emma Stewart[1]; Alex Goettker[2]

[1] Queen Mary University of London; [2] Justus Liebig University Giessen

Can we manipulate context effects by task instructions?

Merav Ahissar

Hebrew University

Serial dependence in continuous and interrupted motion perception in an immersive virtual environment

Kyriaki Mikellidou[1]; Marilia Kyprianou; Savvas Avraam; Marios Avraamides

[1] University of Limassol

Context effects in perceptual decision-making: for better or worse?

David Pascucci

Lausanne University Hospital (CHUV) and University of Lausanne

Poster Session 2

16.00 – 17.30 (Foyer)

2 **Auditory Experience Shapes Hierarchical Visual Rhythm Processing: Evidence from Congenitally Deaf and Hearing Individuals**

Li Shen[1]; Tingwei Yu[2]; Yadi Lan[2]; Jie Chen[2]; Ying Wang[1]; Yi Jiang[1]

[1] State Key Laboratory of Cognitive Science and Mental Health, Institute of Psychology, Chinese Academy of Sciences; [2] School of Educational Science, Cognition and Human Behavior Key Laboratory of Hunan Province, Hunan Normal University

4 **High distractibility predicts reduced task learning in multiple object tracking**

Nika Adamian[1]; Søren K. Andersen[2]

[1] Liverpool John Moores University; [2] University of Southern Denmark

6 **Becoming Famous Overnight: A Visually Mediated False Fame Effect in Logotype Recognition**

Berenika Nawoja Kostka de Sztemberg

Adam Mickiewicz University

8 **Modeling aesthetic experiences across dynamic natural inputs**

Mustafa Alperen Ekinci; Daniel Kaiser

Justus Liebig University Gießen

10 **Feature-dependent perception of auditory apparent motion**

Meike Charlotte Kriegeskorte; Elisabeth Hein

University of Tübingen

12 **Can an auditory signal pop out two visual targets? Yes, but it depends on individual audiovisual integration capacity.**

Rong Zhang; Xiaoyu Tang

Liaoning Normal University

14 **An investigation of perceptual grouping across vision and touch**

Alan O' Dowd; Fiona N Newell

University of Dublin, Trinity College Dublin

16 **In search of object colour representations using steady-state visually-evoked potentials**

Ana Rozman; Abigail Flowers; Jenny Bosten

University of Sussex

18 **Gaze behavior during the everyday task of pouring liquid**

Niteesh Midlagajni; Carola Stork; Constantin Rothkopf

TU Darmstadt

80 **How are Bayesian priors of interval reproduction learned over time?**

Lucy McKeown[1]; Neil Roach[2]

[1] Nottingham Trent University; [2] University of Nottingham

82 **Excitatory/inhibitory ratio in the visual cortex of congenital vs. late blind humans**

Waqar Khan[1]; Rashi Pant[1]; Bhavana Kolli[2]; Anuhya Nalluri[2]; Sunitha Lingareddy[3]; Ramesh Kekunnaya[2]; Brigitte Röder[1]

[1] University of Hamburg; [2] L V Prasad Eye Institute; [3] LUCID Medical Diagnostics

84 **Transcranial Random Noise Stimulation Reshapes the Contrast Sensitivity Function at the Central Visual Field**

Simay Uner[1]; Irem Akdogan[1]; Berkay Istil[2]; Hulusi Kafaligonul[3]

[1] Department of Neuroscience, Aysel Sabuncu Brain Research Center, Bilkent University; [2] National Magnetic Resonance Research Center (UMRAM), Bilkent University; [3] Neuroscience and Neurotechnology Center of Excellence (NOROM), Faculty of Medicine, Gazi University

86 **Inattention in Serial Dependence: A Bayesian Integration Approach Comparing Numerosity and Orientation Judgments**

Lena Schädlich[1]; Alicia Weithase[1]; Alexander Pastukhov[1]; Claus-Christian Carbon[1]; Árni Kristjánsson[2]

[1] University of Bamberg; [2] University of Iceland

88 **A 'waving average': testing the presence of oscillatory modulations in temporal summary statistics**

Maëlan Q. Menétrey; Toscane Z. Revillard; David Pascucci

Psychophysics and Neural Dynamics Lab, Department of Radiology, Lausanne University Hospital (CHUV) and University of Lausanne (UNIL), Lausanne, Switzerland; The Sense Innovation and Research Center, Lausanne, Switzerland

90 **The Role of Priming and Distractor Suppression in Ensemble Perception**

Gizem Tanseli Kaspar; Sabrina Hansmann-Roth

University of Iceland

92 **Exploring the shape dependence on dynamic recognition of self- or friend-face**

Sogo Yumura[1]; Karen Lander[2]; Miyuki G. Kamachi[3]

[1] Graduate School of Engineering, Kogakuin University; [2] University of Manchester; [3] School of Informatics, Kogakuin University

94 **A novel model of the collinear facilitation phenomenon**

Frederik Beuth; Danny Kowerko

TU Chemnitz

96 **How many repetitions are needed to detect spatiotemporal visual regularities?**

Hamit Basgol[1]; Peter Dayan[2]; Volker H. Franz[1]

[1] University of Tübingen; [2] Max Planck Institute for Biological Cybernetics, Tübingen, Germany

98 **The Influence of Second-Order Relational Processing on Holistic Face Recognition**

Tatsuya Yoshizawa; Kanta Sugisako; Soh Murasato

Kanagawa University

100 **Individual differences in how people expect a three-dimensional movement to map onto a two-dimensional display**

Emily Crowe; Daniel Torres Ruiz; Ayse Kucukyilmaz

University of Nottingham

102 **Investigating image statistics and segmentation properties of dead leaves images**

Swantje Mahncke; Ole Fabritz; Thomas S. A. Wallis

Technische Universität Darmstadt

104 **Perceptual tilt illusions also bias visually-guided action**

Kieran Jason Pang[1]; Fulvio Domini[2]; Katja Fiehler[1]; Dimitris Voudouris[1]

[1] Justus Liebig University Giessen; [2] Brown University

106 **Statistical learning can impair encoding of information in episodic memory**

Paweł Stróżak; Mateusz Chwaszcz; Weronika Mroczka; Hanna Zgorzelska; Paweł Augustynowicz

The John Paul II Catholic University of Lublin

Tuesday, 26th August

Talk Session 13 – Eye Tracking II

08.30 – 10.00 (Left Aula)

Fixation by Fixation: Mapping Facial Expression Recognition

Anita Paparelli[1]; Lisa Stacchi[1]; Inês Mares[2]; Louise Ewing[3]; Marie L. Smith[4]; Roberto Caldara[1]

[1] University of Fribourg; [2] Ispa – Instituto Universitário; [3] University of East Anglia; [4] University of London

Trans-retinal integration across eye blinks

Carolin Hübner[1]; Martin Rolfs[2]

[1] Technische Universität Chemnitz; [2] Humboldt-Universität zu Berlin

Freezing the eyes but not attention: Dissociating presaccadic attention from oculomotor inhibition

Nina Hanning; Martin Rolfs

Humboldt-Universität zu Berlin

Credit Assignment Problem in Visuomotor Learning: The Role of Active Cue Selection in Driving Anticipatory Eye Movements.

Hamza O.K. El Hallaoui; Emmanuel Daucé; Anna Montagnini

Aix Marseille Université, CNRS, Marseille, France

The eye movement-related eardrum oscillations time course differs between ipsi-and contralateral saccades

Nancy Sotero Silva[1]; Christoph Kayser[1]; Felix Bröhl[2]

[1] Bielefeld University; [2] Max Planck Institute for Human Development/Max Planck Dahlem Campus of Cognition

Talk Session 14 – Attention II

08.30 – 10.00 (Atrium Maximum)

Shifts of spatial attention explain sensory attenuation of self-touch

Saskia Johnen; Eckart Zimmermann

Heinrich-Heine-Universität

Reward-induced spatial gradient of attentional suppression: Evidence from the Pd component

Tobias Feldmann-Wüstefeld[1]; Emily Taylor[2]; Eva Wiese[1]

[1] Technische Universität Berlin; [2] University of Southampton

Reflexive spatial attention dynamically adapts to task structure and trial timing

Michael A. Grubb; Nicholas Crotty

Trinity College

Dissociating External and Internal Attentional Selection

Kabir Arora; Surya Gayet; J. Leon Kenemans; Stefan van der Stigchel; Samson Chota

Utrecht University

The role of salience in target enhancement and distractor suppression

Nataša Mihajlović[1]; Sunčica Zdravković[2,3]

[1] Faculty of Media and Communications, Singidunum University; [2] Laboratory for Experimental Psychology, Department of Psychology, Faculty of Philosophy, University of Novi Sad, Novi Sad, Serbia; [3] Laboratory for Experimental Psychology, Faculty of Philosophy, University of Belgrade, Belgrade, Serbia

Talk Session 15 – Motion

08.30 – 10.00 (Lecture Hall HS19)

Exploring the role of motion detectors in multiple object tracking

Maryam Rezaei; Rémy Allard

University of Montreal

Object speed and density do not affect attentional allocation in multiple object tracking

Søren K. Andersen[1]; Nika Adamian[2]

[1] University of Southern Denmark; [2] Liverpool John Moores University

Dynamic events as a natural cause for the Onset Repulsion Effect

Rodrigo Freitas[1]; Samuel De Sousa Silva[1]; Nuno De Sá Teixeira[2]

[1] University of Aveiro; [2] William James Center for Research

Perceiving goal-directed movement in simple shapes: From prediction to preferences

Hong Nguyen; Benjamin van Buren

The New School for Social Research

Symposium Session 4 – Using interocular suppression in consciousness research: Current state and future directions

08.30 – 10.00 (Audimax)

Perceptual precedence for expected and dreaded visual events – evidence from 'bias-free' breaking continuous flash suppression

Surya Gayet

Utrecht University

Disentangling Conscious and Unconscious Processing in Interocular Suppression: The rev-bCFS paradigm

Tommaso Ciorli

University of Turin

Temporal summation reveals different levels of feature integration under interocular suppression

Cordula Hunt[1]; Nikola Peise[1]; Florian Kobylka; Günter Meinhardt[1]

[1] Johannes Gutenberg University Mainz

Beyond interocular suppression: Unmasked sub-millisecond presentations reveal visual processing priorities in perception and awareness

Renzo Lanfranco

Karolinska Institute

Unpredictability accelerates conscious access during natural scene perception: Evidence from breaking CFS

Timo Stein; Theyn Kan; Rosa Moesker; Micha Heilbron

University of Amsterdam

Symposium Session 5 – Rethinking the role of brain rhythms in vision: Predictive dynamics, temporal sampling, and individual differences

08.30 – 10.00 (Lecture Hall P1)

Alpha rhythms track occluded motion in natural scene perception

Lu-Chun Yeh[1]; Max Bardelang; Daniel Kaiser

[1] Justus Liebig University Gießen

The relevance of alpha phase for visual processing

Michele Deodato; David Melcher

New York University Abu Dhabi

Beyond the alpha cycle: how alpha activity shapes stable traits and transient dynamics in visual temporal integration

Maëlan Q. Menétrey[1]; Michael H. Herzog[2]; David Pascucci[1]

[1] Psychophysics and Neural Dynamics Lab, Department of Radiology, Lausanne University Hospital (CHUV) and University of Lausanne (UNIL), Lausanne, Switzerland; The Sense Innovation and Research Center, Lausanne, Switzerland; [2] Laboratory of Psychophysics, Brain Mind Institute, École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland

Oscillatory dynamics and individual differences underlying predictive coding in visual perception

Giuseppe Di Dona[1]; Alessia Santoni[2]; Sara Stottmeier[2]; Klara Hemmerich[1]; Luca Ronconi[1]

[1] University of Trento; [2] Vita-Salute San Raffaele University

Atypical weighting of sensory evidence and perceptual priors in causality perception along the ASD-SCZ continuum

Gianluca Marsicano; David Melcher

New York University Abu Dhabi

Poster Session 3

10.00 – 11.30 (Foyer)

1 Objects and Actions in Context: Understanding Scene Functions Based on Phrases and Anchors

Lea Müller Karoza; Melissa L.-H. Vo

Ludwig Maximilian University of Munich

3 Attractiveness at first sight: Revisiting of the effect of symmetry on human facial attractiveness

Ayesha Ahmed; Treedom Beiyin Zhang; Olivia S. Cheung

New York University Abu Dhabi

5 **Subjective Time Dilation in Optic Flow: Effects of Visual Gravity and Motion Speed on Duration Estimation**

Gergely Gerstmayer; Jason Clarke

School of Human and Social Sciences, University of West London

7 **Rapid Activation of Beauty-Related Neural Representations Across Cortex**

Philipp Flieger; Rico Stecher; Daniel Kaiser

Justus Liebig University Gießen

9 **Community based eye-tracking and healthy food choice: opportunities and challenges**

Eugene McSorley; Wanyin Li; Rachel McCloy

University of Reading

11 **An illusion of absence in a VR traffic scenario**

Subhankar Karmakar[1]; Melika Miralem[1]; Pierre-Pascal Forster[2]; Rob van Lier[2]; Vebjørn Ekroll[1]; Marcin Czub[3]

[1] University of Bergen; [2] Radboud University; [3] University of Wrocław

13 **Counter-predictive cueing: overriding gaze leads to longer saccade latencies than overriding arrows**

Inka Schmitz; Wolfgang Einhäuser

Chemnitz University of Technology

15 **Confidence about correct decisions is increased at the saccade target**

Patricia R. Mueller; Wolfgang Einhäuser

Chemnitz University of Technology

17 **The similarity of similarity tasks: Comparing eight different measures of similarity.**

Malin Styrnal[1]; Laura Stoinski[2]; Philipp Kaniuth[2]; Martin N. Hebart[1]

[1] Justus Liebig University Giessen, Giessen, Germany; [2] Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

19 **Visual Discrimination of Complex Naturalistic Stimuli**

Mina Glukhova

Ernst Strüngmann Institute for Neuroscience

21 **Perturbation detection and pupillary responses in split-belt walking**

Carl Müller; Karl Kopiske

Chemnitz University of Technology

23 **No Evidence for Enhanced Sensory Imagery in Synaesthetes using Psi-Q Assessment**

Árni Gunnar Ásgeirsson[1]; Hulda Björk Gunnarsdóttir[2]; Hrafnhildur Ólafsdóttir[2]; Inga María Ólafsdóttir[3]; Heida Maria Sigurdardottir[2]

[1] University of Akureyri; [2] University of Iceland; [3] Reykjavik University

25 **Combining Social Norm Nudges for Sustainable Online Meal Choices**

Daniele Catarci; Lars Bläuer; Ester Reijnen

Zürcher Hochschule für Angewandte Wissenschaften (ZHAW)

27 **When perceptual uncertainty must be predictable – EEG correlates of perceptual uncertainty processing across stimulus repetitions**

Shalila T. Freitag[1]; Maximilian Billian[1]; Mareike Wilson[1]; Ludger Tebartz van Elst[2]; Jürgen Kornmeier[1]; Ellen Joos[1]

[1] Institute for Frontier Areas of Psychology and Mental Health, Freiburg, Germany; [2] Medical Center, University of Freiburg, Freiburg, Germany

29 **The prior Stroop task affects the performance of facial recognition**

Shuma Fujikawa; Kyoko Hine; Tetsuto Minami; Shigeki Nakauchi

Toyohashi University of Technology

31 **Testing high-speed OLED monitors (240 Hz & 480 Hz) for vision science: Advantages & Artifacts**

Olaf Dimigen; Arne Stein

University of Groningen

33 **Bayesian estimation of intra-individual variability in visual attention capacity and weight distribution**

Ngoc Chi Banh; Ingrid Scharlau

Paderborn University

35 **Adaptation of Serial Dependence in Visual Working Memory Reflects Target Fidelity, not Inducer Fidelity**

Bugay Yildirim; Aysecan Boduroglu

Koç University

37 **Stepwise learning of multidimensional visual stimuli by pigeons**

Olga Vyazovska

Kharkiv International Medical University

39 **Who is the better operator, and why? A large-sample study of delayed visual target operation: Insights from individual differences and gaze behaviour**

Yasunaga Monno; Junhui Kim; Takako Yoshida

Institute of Science Tokyo (Tokyo Institute of Technology)

41 **Uncovering Strategy Variability in Working Memory Use with Hidden Markov Models**

Tianying Qing; Christoph Strauch; Stefan van der Stigchel; Leendert Van Maanen

Utrecht University

43 **Shooting the red target: How critical is colour perception in police operations?**

Ilgin Cebioglu; Harpreet Dlay; Jan Kucera; Gabriele Jordan; Anya Hurlbert

Newcastle University

45 **The impact of presentation duration on psychophysical and P300-based visual acuity estimation with the FreiBurger and the Landolt C**

Julia Haldina[1]; Marc Gottschling[2]; Sven P. Heinrich[1]

[1] Eye Center, Medical Center – University of Freiburg ; [2] University of Freiburg

47 **Is beauty in the eye of the beholder? Influences of implicit racial and gender biases on facial attractiveness judgments**

Treedom Beiyin Zhang; Ayesha Ahmed; Olivia S. Cheung

New York University Abu Dhabi

49 **Perceiving body weight: SNARC-like spatial mapping in the visual evaluation of human bodies**

Loris Brunello; Anna Lorenzoni; Michele Vicovaro; Mario Dalmaso

University of Padova

51 **Response strategy—natural or instructed—determines the direction of serial dependence**

Aviel Sulem; Merav Ahissar

Hebrew University of Jerusalem

53 **No attention - no ensembles**

Anton Lukashevich[1]; Sabrina Hansmann-Roth[1]; Igor Utochkin[2]; Heida Maria Sigurdardottir[1]

[1] University of Iceland; [2] University of Chicago

55 **Following the Furrow Illusion Further**

Anna Riga[1]; Stuart Anstis[2]; Ian M. Thornton[1]; Patrick Cavanagh[3]

[1] University of Malta; [2] University of California San Diego; [3] Glendon College, CVR, York University

57 **Sustained Posterior Negativity (SPN) in Response to Natural, Uncontrolled Symmetrical Stimuli**

Carolina Maria Oletto[1]; Andrea Ghiani[1]; Luca Battaglini[1]; Antonino Vallesi[1]; Patrizia Bisiacchi[1]; Alexis Makin[2]; Marco Bertamini[1]

[1] Università di Padova; [2] University of Liverpool

59 **Reading Social Intention from Body Motion: A Multi-cultural Database on Friendliness-Hostility**

Chiahuei Tseng[1]; Zhan Dai[2]; Miao Cheng[1]; Ken Fujiwara[3]; Yangyang Cai[4]; Shoi Higashiyama[1]; Yoshifumi Kitamura[4]; Satoshi Shioiri[4]

[1] Tohoku University; [2] The University of Hong Kong; [3] National Chung Cheng University; [4] Research Institute of Electrical Communication Tohoku University

61 **Expanding Perimetry: A Novel Motion Based Screening Test**

Richie Connors[1]; Bjørn Helland-Hansen[1]; Minke de Boer[2]; Frank Lindseth[3]; Frans W. Cornelissen[2]

[1] Bulbitech AS; [2] University Medical Center Groningen; [3] NTNU Norwegian University of Science and Technology

63 **Effects of visual attention in the Pulvinar at 7T fMRI**

Giacomo Mazzotta[1]; Miriam Acquafredda[1]; Laura Biagi[2]; Michela Tosetti[2,3]; Maria Concetta Morrone[1]; Paola Binda[1]

[1] University of Pisa; [2] IRCCS Stella Maris, Calambrone, Pisa, Italy; [3] Imago7 Research Foundation, Pisa, Italy

65 **Exploring Saccade-Onset Event-Related Potentials for Face Perception in the Real World**

Debora Nolte[1]; Aitana Grasso-Cladera[1]; Alina Zaidan[1]; Aiko-Theres Dubrall[1]; Aziz Muhammed Akkaya[1]; Tim C. Kietzmann[1]; Peter König[1,2]

[1] University of Osnabrück; [2] University Medical Center Hamburg-Eppendorf

67 **The low prevalence of mutual looks in natural interactions is not modulated by interactive or task context**

Florence Mayrand; Jelena Ristic

McGill University

69 **Competing Centers: Toward Which Are Eye Movements Biased in a Stimulus?**

Brahan Wassan Aklilu; Ohad Ben-Shahar

Ben-Gurion University of the Negev

71 **Different contrast-response signatures of luminance and chromatic cortical mechanisms captured by pattern onset and steady state visual evoked potentials**

Jasna Martinovic; Nicole Needham; Joel Martin

University of Edinburgh

73 **Vertical displacement of parts disrupts holistic face processing: Biological implausibility or impaired perceptual grouping?**

Kim Curby; Leena Nguyen

Macquarie University

75 **From Screen to Scene: Investigating the Influence of Smartphone Usage on Visual Sampling**

Svea Kürten; Alicia Kaufmann; Alexander Goettker

Justus-Liebig-Universität Gießen

77 **Evidence for rhythmic visual attention in a continuous motion-direction-tracking task**

Tobias Schoeberl; Efsun Kavaklioglu; Stefan Treue

German Primate Center

79 **The 3rd harmonic component of hip motion is critical for sex perception from side-view PLWs**

Chihiro Asanoi; Koichi Oda

Tokyo Woman's Christian University

81 **Looking Deeper: How Distractors Capture Attention Across Depth Planes**

Kaitlin Moat; Philip Grove; Stefanie Becker; Alan Pegna; Guy Wallis

The University of Queensland

83 **Collinear Masking Effect in Natural and Medical Images**

Hong-Syuan Lee[1]; Li Jingling[2]

[1] College of Medicine, China Medical University; [2] Graduate Institute of Biomedical Sciences, China Medical University

85 **Inhibition of return for suppressed distractors in a saccade sequencing paradigm**

Christof Körner[1]; Živa Korda[1]; Iain D. Gilchrist[2]

[1] University of Graz; [2] University of Bristol

87 **Prior beliefs and cost functions in sensorimotor decision-making vary idiosyncratically across participants**

Tobias F. Niehues; Dominik Straub; Constantin Rothkopf

Technical University of Darmstadt

89 **The Optimal Spatial Frequency Content for the Second-Order Symmetry Detection**

Yu-Sin Kuo; Chien-Chung Chen

National Taiwan University

91 **Factors Associated with Attentional Selection: Perceptual Load, Mind Wandering, and Working Memory**

Büşra Arslan; Özlem Ertan

Ankara Medipol University

93 **Center-Surround Suppression of Motion Perception in Children**

Yumiko Otsuka[1]; Yusuke Nakashima[2]; Nobu Shirai[3]

[1] Chukyo University; [2] Brown University; [3] Rikkyo University

95 **Analogous haptic size adaptation aftereffects between younger and older people: Evidence from a haptic-to-visual crossmodal matching task**

Naoki Kuroda[1]; Souta Hidaka[2]; Wataru Teramoto[1]

[1] Kumamoto University; [2] Sophia University

97 **Visual detection of elementary image features during natural behaviour**

Jun Yang[1]; Simone Azeglio[1,2]; Peter Neri[1]

[1] Laboratoire des Systèmes Perceptifs, Ecole Normale Supérieure et CNRS; [2] Institut De La Vision

99 **Object-zoomed training of convolutional neural networks inspired by toddler development improves shape bias**

Niklas Mueller; Cees Snoek; Iris Groen; Steven Scholte

University of Amsterdam

101 **Exploring the influence of congruency on liking and perceived complexity of audiovisual stimuli**

Funda Yilmaz; Umut Güçlü; Yağmur Güçlütürk; Rob van Lier

Donders Institute for Brain, Cognition and Behaviour, Radboud University

103 **Insights from individual differences into orientation selectivity in human vision**

Omar Bachtoula[1]; Ichasus Llamas Cornejo[1]; María Martín-García[1]; David H. Peterzell[2]; Ignacio Serrano-Pedraza[1]

[1] Universidad Complutense de Madrid; [2] Fielding Graduate University

105 **Investigating speed perception with the beep-speed illusion**

Simon Merz[1]; Christian Frings[1]; Hauke S. Meyerhoff[2]

[1] University of Trier; [2] University of Erfurt

107 **Continuous Psychophysics Facilitates the Assessment of Spatiotemporal Properties of Visual Crowding**

Dilce Tanriverdi; Frans W. Cornelissen

University Medical Center Groningen

Talk Session 16 – Decision Making

11.30 – 13.00 (Left Aula)

Measuring high-dimensional decision functions with a bayesian adaptive procedure

Rabea Turon[1]; Lars C. Reining[1]; Philipp Hummel[1]; Finn Radatz[1]; Christine H. Lind[2]; Angela J. Yu[1,2]; Constantin A. Rothkopf[1]; Frank Jäkel[1]; Thomas Wallis[1,4]

[1] Technical University of Darmstadt, Germany; [2] UC San Diego; [4] Centre for Mind, Brain and Behaviour (CMBB), Universities of Marburg, Giessen and Darmstadt, Germany

Paradoxical allocation of visual processing resources induced by intrinsic rewards

Paul Bays[1]; Rodrigo Raimundo-Ramos[2]; Ivan Tomić[3]

[1] University of Cambridge; [2] Donders Institute for Brain, Cognition and Behaviour, Radboud University; [3] University of Zagreb

Task expectations and attentional fluctuations modulate serial dependence in perceptual decisions

Junlian Luo; David Pascucci

Centre Hospitalier Universitaire Vaudois (CHUV), University of Lausanne (UNIL), The Sense Innovation and Research Center, Lausanne, Switzerland

Peripheral overconfidence in a scene categorization task

Nino Sharvashidze[1]; Matteo Toscani[2]; Matteo Valsecchi[1]

[1] University of Bologna; [2] Bournemouth University

Oscillatory dynamics underlying predictive coding in motion perception

Giuseppe Di Dona[1]; Alessia Santoni[2]; Sara Stottmeier[2]; Klara Hemmerich[1]; Luca Ronconi[1]

[1] University of Trento; [2] Vita-Salute San Raffaele University

Talk Session 17 – Illusions

11.30 – 13.00 (Atrium Maximum)

(Un)framing the moon – size illusion as a consequence of depth cues distribution

Oliver Tošković

Faculty of Philosophy, University of Belgrade

The bookend effect: A new take on common fate.

Ian M. Thornton[1]; Anna Riga[1]; Stuart Anstis[2]; Patrick Cavanagh[3]

[1] University of Malta; [2] University of California San Diego; [3] Glendon College, CVR, York University

Five Illusions Challenge Our Understanding of Visual Experience

Paul Linton

Columbia University

Contour erasure facilitates artificial scotoma filling-in

Yih-Shiuan Lin[1]; Serena Castellotti[2]; Maria Michela Del Viva[2]; Chien-Chung Chen[3]; Mark W. Greenlee[1]

[1] University of Regensburg; [2] University of Florence; [3] National Taiwan University

Intact early visual cortex is necessary for conscious perception in flash grab illusion

Jiahan Hui[1]; Patrick Cavanagh[2]; Alex Holcombe[3]; Sheng He[1]; Dajiang Wang[4]; Huanfen Zhou[4]; Peng Zhang[1]

[1] Institute of Biophysics, Chinese Academy of Sciences, Beijing, PR China; [2] Glendon College, CVR, York University; [3] The University of Sydney, School of Psychology, Sydney, Australia; [4] Chinese PLA General Hospital: Beijing, China

A minimal face detection stimulus uncovered by accounting for the spatial variability of illusory face percepts

Kateryna Marchenko; Erin Goddard; Colin Clifford

University of New South Wales, Sydney

Talk Session 18 – Visual Search & Foraging

11.30 – 13.00 (Lecture Hall HS19)

Individual differences in visual foraging are related to individual cognitive and personality profiles

Jérôme Tagu[1]; Maha Haggouch[2]; Karine Doré-Mazars[2]

[1] University of Bordeaux; [2] Laboratoire VAC - Université Paris Cité

Saccade crossing avoidance as a visual search strategy

Alex Szorkovszky[1]; Rujeena Mathema[2]; Pedro Lencastre[2]; Anis Yazidi[2]; Pedro Lind[3]

[1] Simula Research Laboratory; [2] OsloMet – Oslo Metropolitan University; [3] Kristiania University of Applied Sciences

Object Discrimination is an Independent Predictor of Reading

Irina Ovchinnikova[1]; Marelle Mäekalle[1]; Inga María Ólafsdóttir[2]; Brent Pitchford[3]; Freyja Birgisdottir[1]; Randi Starrfelt[4]; Heida Maria Sigurdardottir[1]

[1] University of Iceland; [2] Reykjavik University; [3] KU Leuven; [4] University of Copenhagen

A new implicit learning phenomenon in statistical learning and visual search

Thiago Leiros Costa[1]; Massimo Turatto[2]; Leonardo Chelazzi[1]

[1] Verona University; [2] University of Trento

From X-Rays to T-Shapes: Radiologists' Systematic Search Strategies and Paradoxical Performance in Non-Clinical Multiple-Target Search

Kayley Birch-Hurst[1]; Remi Green[1]; Isaac Henderson[1]; Annabel Stevenson[1]; Georgia Williams[1]; Kieran G. Foley[2]; Phillip Wardle[3]; Kait Clark[1]

[1] University of the West of England; [2] Cardiff University; [3] National Imaging Academy of Wales

Symposium Session 6 – Self-motion without actual motion: trends in visual vection research from basic neuro-cognitive processing to clinical applications

11.30 – 13.00 (Audimax)

Object motion while experiencing vection

Robert Allison; Laurie Wilcox; Hongyi Guo; Xue Teng

Individual-difference factors modulating the experience of vection. The role of field dependence, anomalous perceptual experiences, and tolerance of ambiguity

Paweł Stróżak; Tomasz Jankowski; Marcin Wojtasiński; Paweł Augustynowicz

The John Paul II Catholic University of Lublin

Early cortical processing of vection during coherent vs. non-coherent motion stimuli in younger and older adults: An event-related potential (ERP) study

Stefan Berti[1]; Brandy Murovec[2]; Susan Yahya[2]; Julia Spaniol[2]; Behrang Keshavarz[3]

[1] Johannes Gutenberg-Universität Mainz; [2] Toronto Metropolitan University; [3] KITE-Toronto Rehabilitation Institute, University Health Network

Combining EEG and vection to investigate visual-vestibular interactions in healthy and clinical populations

Michaela McAssey[1]; Lena Fabritius[2]; Geraldine Tauber[2]; Valerie Kirsch[2]; Thomas Brandt[2]; Marianne Dieterich[2]

[1] University of Glasgow; [2] Ludwig-Maximilians-University Hospital Munich

Vection in Individuals with and without Concussion: Associations with Postural Responses and Visual Dependence

Grace Gabriel[1]; Meaghan Adams[2]; Behrang Keshavarz[1]; Lauren Sergio[3]; Jennifer Campos[1]

[1] KITE Research Institute, University Health Network; [2] Baycrest Centre; [3] York University

Symposium Session 7 – Perceiving visual actions: eye movement awareness and sensorimotor control in active vision

11.30 – 13.00 (Lecture Hall P1)

People are sensitive to their uniquely patterned retinal input

Amit Rawal; Rosanne L. Rademaker

Ernst Strüngmann Institute (ESI) for Neuroscience in Cooperation with Max Planck Society, Frankfurt, Germany

Eyes on Target, Awareness off Course: Limited Control and Detection of Catch-Up Saccades during Pursuit Eye Movements

Jan-Nikolas Klanke[1]; Sven Ohl[1]; Almila Naz Esen[2]; Martin Rolfs[1]

[1] Humboldt-Universität zu Berlin; [2] Freie Universität Berlin

Limited Metacognitive Awareness of Eye Movement Accuracy: Insights from Saccade and Tracking Tasks

Alexander Goettker[1]; Jolande Fooken[2]; Shannon Locke[3]; Karl Gegenfurtner[1]; Pascal Mamassian[3]

[1] Justus-Liebig-Universität Gießen; [2] TU Darmstadt; [3] École Normale Supérieure

Task and control-demands influence the use of visual feedback during arm movement control

Anne Helen Hoffmann[1]; Ilana Nisky[2]; Frédéric Crevecoeur[3]

[1] Radboud University Nijmegen; [2] Ben-Gurion University of the Negev; [3] Université Catholique de Louvain

In the Eye of the Timer: Rising Up to the Challenges of Subjective Saccade Timing

Wiebke Nörenberg[1]; Pascal Mamassian[2]; Martin Rolfs[1]

[1] Humboldt-Universität zu Berlin; [2] Laboratoire des systèmes perceptifs, Département d'études cognitives, École normale supérieure, CNRS

Talk Session 19 – Temporal Processing & Time Perception

14.30 – 15.30 (Left Aula)

From slow motion to time lapse: Human perception of altered video speed

Laura Sperl[1]; Frans Verstraten[2]; Roman Liepelt[1]

[1] FernUniversität in Hagen; [2] The University of Sydney

Switch-mode configuration underlies precision in empty and filled interval judgments

Fatma Nefes Tekin; İnci Ayhan

Bogazici University

Affordance and Time Perception: The Role of Hand Morphology in Virtual Reality

Sude Zeynep Karataş[1]; Fatma Nefes Tekin[1]; Batuhan Ayberk Koçak; İlyas Bora Altun[1]; İnci Ayhan[1]

[1] Bogazici University

Time perception modulation via the interaction of top-down attention and schema violations

Ourania Tachmatzidou; Evgenia-Charikleia Lazari; Argiro Vatakis

Multisensory and Temporal Processing Lab (MultiTimeLab), Department of Psychology, Panteion University of Social and Political Sciences, Athens, Greece

Talk Session 20 – Individual Differences

14.30 – 15.30 (Atrium Maximum)

ssVEP-based estimations of contrast sensitivity, visual acuity, and orientation sensitivity do not correlate with each other or with psychophysical measures

Martina Morea[1]; Simona Garobbio[1]; Marina Kunchulia[2]; Michael H. Herzog[1]

[1] École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland; [2] Free University of Tbilisi and Ivane Beritashvili Center of Experimental Biomedicine, Tbilisi, Georgia

How do individual differences in scene priors drive idiosyncrasies in visual exploration patterns?

Micha Engeser; Daniel Kaiser

Justus-Liebig University Giessen

The role of mental imagery in divergent perception: A Perception Census study

Reshanne Reeder[1]; Angelika Stefan[1]; Trevor Hewitt[2]; Anil Seth[2]; Fiona Macpherson[3]

[1] University of Liverpool; [2] University of Sussex; [3] University of Glasgow

Individual differences in augmented perception of spatial layout and object material

Marko Nardini[1]; Olaf Kristiansen[1]; Thomas Chazelle[1]; Sam Fenwick[1]; Chris Allen[1]; Nick Prins[2]; Meike Scheller[1]

[1] Durham University; [2] University of Mississippi

Talk Session 21 – Multisensory Processing I

14.30 – 15.30 (Lecture Hall HS19)

Brain representations of numerosity across the senses and presentation format

Ying Yang[1]; Michele Fornaciai; Irene Togoli; Iqra Shahzad; Remi Gau; Alice Van Audenhaege; Filippo Cerpelloni; Olivier Collignon

[1] UCLouvain

Your nose knows what you're looking for! Visual search performance depends on the congruency of olfactory sensations

Serena Castellotti[1]; Marija Soldo; Tina Plank; Maria Michela Del Viva; Mark W. Greenlee

[1] Università di Pisa

An Evaluation of the Principles and Computational Mechanisms of Redundant Signals Effect in Multisensory Integration

Shiqi Tan[1]; Yuhui Cheng[2]; Jieru Chen[1]; Xiangyong Yuan[1]; Yi Jiang[1]

[1] Institute of Psychology Chinese Academy of Sciences; [2] Nanjing Normal University

Temporal modulation of variability and skewness in finger aperture reflects intervention of biomechanical constraints in grasping

Stefano Uccelli; Nicola Bruno

Università di Parma

Symposium Session 8 – Active vision in embodied interaction

14.30 – 15.30 (Audimax)

Probabilistic attention templates guide visual selection

Árni Kristjánsson[1]; Jennifer Magerl-Fuller[1]; Árni Gunnar Ásgeirsson[2]

[1] University of Iceland; [2] University of Akureyri

Neurophysiology of active vision

Marcin Leszczyński

Jagiellonian University, Kraków, Poland and Columbia University in New York, USA

Adaptive gaze behavior and active predictions. Multimodal behavioral studies in dynamic environments

Vasiliki Kondyli

Lund University

Towards Responsible AI Foundations for Neurocognitive Analytics of Vision

Mehul Bhatt

Örebro University, Sweden – CoDesign Lab EU

Symposium Session 9 – The perception of the visual world – 75 years later

14.30 – 15.30 (Lecture Hall P1)

Optical gradients as sources of visual information

James Todd

Ohio State University

Has Gibson's "The Stimulus Variables for Visual Depth and Distance" stood the test of time?

Brian Rogers

University of Oxford

Texture gradients are live and well

Klaus Landwehr; Heiko Hecht; Christoph von Castell

Johannes Gutenberg University Mainz

The Focus of Expansion

Jan Koenderink

KU Leuven

Poster Session 4

15.30 – 17.00 (Foyer)

2 **Comparing Size Discrimination in Visuomotor and Perceptual Judgements**

Tanja Huber[1]; Kriti Bhatia[1]; Angela Osenberg[1]; Frederic Goehringer[2]; Thomas Schenk[2]; Markus Janczyk[3]; Volker H. Franz[1]

[1] University of Tuebingen, Germany; [2] Ludwig-Maximilians-University Munich; [3] University of Bremen

4 **Development of lateralized processes in facial expression recognition**

Kanade Mori; Hikaru Nozawa; So Kanazawa; Riku Umekawa; Masami K. Yamaguchi

6 **Optimizing priming effects: manipulating response-deadlines and effect sizes**

Maximilian P. Wolkersdorfer; Omar Jubran; Thomas Schmidt

RPTU University of Kaiserslautern-Landau

8 **Unraveling the time course of attentional capture: an EEG-RIFT study**

Dan Wang; Surya Gayet; Kabir Arora; Stefan van der Stigchel; Samson Chota

Utrecht University

64 **Using generative AI, CNNs and extensive sampling to characterize the visual features encoded in alpha rhythms during imagery**

Daniel Kaiser; Rico Stecher

Justus Liebig University Gießen

66 **Comparing Colour Adaptation Across Grapheme-Colour Synaesthesia Subtypes and Non-Synaesthetes**

Nikos Gekas; Giulia Colantonio; Duncan Carmichael

Edinburgh Napier University

68 **EEG and eyetrackig correlates of cognitive load in text reading and arithmetic tasks**

Elena Rybina[1]; Taisiya Loginova[1]; Daria Phillipova; Timofei Berezner

[1] HSE University

70 **Walking modulates numerosity perception at the step rate**

Eleonora Chelli; Cameron Kyle Phan; David Alais

The University of Sydney

72 **Binocular and monocular blur affect the planning and online control of prehension movements.**

Rachel O. Coats[1]; William Sheppard[1]; Carlo Campagnoli[1]; Richard M. Wilkie[1]; Rigmor C. Baraas[2]

[1] University of Leeds; [2] University of South-Eastern Norway, Kongsberg

74 **Learning Speed Predicts the Retention of Category Structure in Fast and Slow Learners**

Johannes Schultz-Coulon[1]; Anna Lawrance[2]; Daniela O. Gonzalez[2]; Kiera Ludlow[2]; Brett D. Roads[3]; James W. Tanaka[2]

[1] Maastricht University; [2] University of Victoria; [3] University College London

76 **Reproducible eyeblink timings observed in string quartet performers during concerts**

Ryota Nishizono[1]; Kazuaki Honda[1]; Takashi Goto Sato[1]; Kakagu Komazaki[1]; Tomoyo Isoguchi Shiramatsu[2]; Tomoru Nakayama[3]; Hiroki Hasegawa[3]; Haruna Miwa[3]; Shinya Fujii[4]; Kaoru Kondo[2]; Jun Kunimatsu[3]; Naoki Saijo[1]

[1] NTT Communication Science Laboratories; [2] The University of Tokyo; [3] University of Tsukuba; [4] Keio University

78 **Limits of visual plasticity: No effect of short-term monocular deprivation in parafoveal visual crowding**

Jan W. Kurzawski[1]; Julia Zasada[2]; Antoine Prosper[2]; Claudia Lunghi[2]

[1] Maastricht University; [2] École normale supérieure, PSL University, CNRS

80 **Active removal of information from working memory invokes the concerted recruitment of distributed neocortical regions**

Renata Cruz; Thomas Christophel

Humboldt-Universität zu Berlin

82 **Tuning flexibility for target templates, not for distractor templates**

Sizhu Han[1]; Lea Marie Schmitt[2]; Anna Schubö[1]

[1] Philipps-University Marburg; [2] Justus-Liebig-University Giessen

84 **Identifying the ipRGC scotoma through the pupillary light reflex**

Pablo A. Barrionuevo; Alexander C. Schütz

Philipps-Universität Marburg

86 **Inequality and the visual environment: Scene statistics as a predictor of the socio-economic characteristics of urban neighbourhoods.**

Shoaib Nabil; Max Lovell; Matthias Gobel; John Maule

University of Sussex

88 **Comparing visual skills in children with and without learning difficulties: insights into school performance**

Carina Schücker; Jule Lohmann; Katharina Limbach; Sarah Weigelt

TU Dortmund University

90 **Is object shape recognition also a matter of the dorsal visual stream? A ccPAS Registered Reoport study.**

Elena Bertacco[1]; Francesca Saviola[2]; Edoardo Paolini[1]; Agnese Tamanti[1]; Francesca Benedetta Pizzini[1]; Silvia Francesca Storti[1]; Debora Brignani[3]; Silvia Savazzi[1]; Daniele Corbo[3]; Chiara Bagattini[1]; Chiara Mazzi[1]

[1] University of Verona; [2] Ecole polytechnique fédérale de Lausanne (EPFL); [3] University of Brescia

92 **Effect of flash presentations on brightness induction.**

Frederic Devinck

Université Rennes 2

94 **A simple visual heuristic allows maze navigators to choose shorter routes under combinatorial uncertainty**

Cassandra Engstrom; William H. Warren

Brown University

96 **Individual differences in face perception explained by gaze behaviour**

Zeynep Ceyda Demirkan; Maximilian Davide Broda; Benjamin de Haas

Justus-Liebig-Universität Gießen

98 **Simulating the effect of visual instability on reading skill**

Liam Jordan; Kevin B. Paterson; David Souto

University of Leicester

100 **Blink and Release: Validating an Online Tool for Eye Blink Detection and Investigating the Link Between EBR and Attention**

Ronen Hershman[1]; Yoav Bar-Anan[2]; Ayelet Sapir[3]

[1] University of Innsbruck; [2] Tel Aviv University; [3] University of Greenwich

102 **Cortical traveling waves in orthogonal retinotopic maps produce distinct patterns on the surface of the scalp**

Kirsten Petras[1]; Hayley Yingxuan Wu[2]; Laetitia Grabot[3]; Laura Dugué[4]

[1] Université Paris Cité, CNRS; [2] Université Paris Cité, CNRS; [3] École normale supérieure, PSL University, CNRS; [4] Université Paris Cité, CNRS, Institut Universitaire de France (IUF)

104 **Multisensory Perception of Biological Motion: Auditory Time Intervals Shape Perceived Speed**

Sudenur Ozkan[1]; Şeyma Koc Yilmaz[2]; Hulusi Kafaligonul[3]

[1] Department of Neuroscience, Aysel Sabuncu Brain Research Center, Bilkent University, Ankara, Turkiye; [2] National Magnetic Resonance Research Center (UMRAM), Bilkent University, Ankara, Turkiye; [3] Neuroscience and Neurotechnology Center of Excellence (NOROM), Faculty of Medicine, Gazi University, Ankara, Turkiye

106 **Orientation dependence of geometric optical illusions: isolating the effect of retinal orientation on the Helmholtz square and Titchener's T**

Jason Lutz; Heiko Hecht; Christoph von Castell

Johannes Gutenberg University Mainz

Spotlight in Vision Lecture

17.00 – 18.30 (Audimax)

Visual Perception: past, present and future

Roland Fleming

Justus Liebig University Giessen

Wednesday, 27th August

Talk Session 22 – Low Level Vision I

08.30 – 10.00 (Left Aula)

Early processing on occipital visual cortex for exogenous attention based on eye of origin contrast

Chen Wu; Zhikuan Yang; Jinyou Zou

Aier Academy of Ophthalmology, Central South University; Aier Institute of Optometry and Vision Science; Hunan Province Optometry Engineering and Technology Research Center; Hunan Province International Cooperation Base for Optometry Science and Technology

Functional dissociations versus post-hoc selection: Moving beyond the Stockart et al. (2025) compromise

Thomas Schmidt; Xin Ying Lee; Maximilian P. Wolkersdorfer

RPTU University of Kaiserslautern-Landau

Alpha oscillations and GABA Concentrations in human right V1 drive context-dependent visual size perception

Xue Han[1]; Ying Zhang[1]; Lihong Chen[1]; Zhentao Zuo[2]; Yi Jiang[3]

[1] Liaoning Normal University; [2] Institute of Biophysics, Chinese Academy of Sciences; [3] Institute of Psychology, Chinese Academy of Sciences

Much stronger coarse-to-fine visual processing in primate superior colliculus than primary visual cortex neurons

Yue Yu[1]; Amarender Bogadhi; Ziad Hafed[1]

[1] Hertie Institute, University of Tübingen

Spatiotemporal Context Shapes Orientation Discrimination in Non-trivial Ways

Lisa Schwetlick[1]; Peter Neri[2]

[1] École Polytechnique Fédérale de Lausanne (EPFL); [2] École Normale Supérieure

Talk Session 23 – Color I

08.30 – 10.00 (Atrium Maximum)

Estimating Individual Cone Fundamentals: A Fitting Exploration Using Heterochromatic Flicker Photometry

Xiangzhen Kong; Ingrid Heynderickx

Eindhoven University of Technology

Decoding Colour Information from EEG Signals in Natural Scenes

Arash Akbarinia

Justus-Liebig-University of Giessen

Efficient coding of natural color statistics predicts color discrimination and neural color representation

Felix Schrader; Thomas Wachtler

Ludwig-Maximilians-Universität München

Do we form colorful predictions in visual cortex?

Mandy Viktoria Bartsch; Eelke Spaak; Floris de Lange

Radboud University Nijmegen, Netherlands

Color and retinal optics improve encoding model predictions of occipital fMRI responses to natural scenes

Jenny Bosten[1]; Chris Racey[1]; Kendrick Kay[2]; Ian Pennock[1]

[1] University of Sussex; [2] University of Minnesota

Talk Session 24 – Visual Cognition

08.30 – 10.00 (Lecture Hall HS19)

EEG evidence for competitive interactions between imagery and perception

Maëlle Lerebourg; Marius Peelen

Radboud University

Decoding memorability reveals why some perceptual information sticks

Tijl Grootswagers[1]; Sophia Shatek[2]; Thomas Carlson[3]; Amanda Robinson[4]

[1] Western Sydney University; [2] University of Oxford; [3] The University of Sydney; [4] The University of Queensland

The key features underlying superordinate object classification

Emily A-Izzeddin; Filipp Schmidt; Christian Houborg; Henning Tiedemann; Roland Fleming

Justus Liebig University Giessen

Visual processing capacity based on recent experience: Stimulus probability affects visual processing speed

Christian H. Poth; Werner X. Schneider

Bielefeld University

Attending to things you can't see

Ana Vilotijević; Sebastiaan Mathôt

University of Groningen

Symposium Session 10 – Where and when? Modeling motion prediction

08.30 – 10.00 (Audimax)

How scene variability affects time-to-contact estimation and its use in decision-making

Joan Lopez-Moliner; David Aguilar-Lleyda; Cristina de la Malla

Universitat de Barcelona

Simple Bayesian observer models explain important characteristics of visual time-to-collision estimation in a street-crossing scenario

Daniel Oberfeld-Twistel; Tim Niewalda

Johannes Gutenberg-Universität Mainz

Explaining the angle-of-approach and curveball effects in interception with an LQG model that combines trajectory prediction and implicit goal costs

Borja Aguado[1,2]; Loes C.J. van Dam[2,3,4]

[1] Research Group on Attention to Diversity (GRAD), Psychology Department, University of Vic-Central University of Catalonia (UVic-UCC) (ES); [2] Technical University of Darmstadt (TU Darmstadt), Department of Human Sciences, Institute for Psychology / Centre for Cognitive Science (DE); [3] Department of Psychology, University of Essex, Colchester (UK); [4] Center for Mind, Brain and Behavior, University of Marburg and Justus Liebig University Giessen (DE)

Discrete percepts of continuously moving objects

Oh-Sang Kwon[1]; Hyun-Jun Jeon[1]; Duje Tadin[2]

[1] Ulsan National Institute of Science and Technology; [2] University of Rochester

Intercepting moving targets: from optimal control to TTC

Constantin Rothkopf; Dominik Straub; Tobias F. Niehues

TU Darmstadt

Symposium Session 11 – Dealing with the visual consequences of eye and head movements: Recent findings and implications

08.30 – 10.00 (Lecture Hall P1)

Sensory Census: how efference copies from eye movements determine the number of objects we see in dynamic environments

Antonella Pomè; Eckart Zimmermann

Heinrich Heine Universität Düsseldorf

Dark contrasts are immune to saccadic suppression in the primary visual cortex

Ziad Hafed

Hertie Institute, University of Tübingen

Sensory and motor suppression of optokinesis during smooth pursuit eye movements

David Souto[1]; Omar Bachtoula[2]; Mel Ellul Miraval[1]; Ignacio Serrano-Pedraza[2]

[1] University of Leicester; [2] Complutense University of Madrid

Robust generalization of tuning to self-induced sensation

Rozana Ovsepian[1]; David Souto[2]; Alexander C. Schütz[1]

[1] University of Marburg; [2] University of Leicester

The role of oculomotor signals in stationarity perception

Paul MacNeilage

University of Nevada, Reno

Poster Session 5

10.00 – 11.30 (Foyer)

1 **Temporal evolution of gaze responses to target perturbations**

David Franklin[1]; Dimitris Voudouris[2]

[1] Technical University of Munich; [2] Justus Liebig University Giessen

3 **Decoding Dynamic Changes in Stimulus Categories from EEG Responses**

Ilker Duymaz; Micha Engeser; Daniel Kaiser

Justus-Liebig University Giessen

5 **Time-to-collision estimation in the Oppel-Kundt illusion**

Carolin Sweeney; Heiko Hecht; Christoph von Castell

Johannes Gutenberg University Mainz

7 **The impact of monitor position on gap acceptance judgments in camera-monitor systems**

Elisabeth Wögerbauer; Heiko Hecht

Johannes Gutenberg University Mainz

9 **Objects in vista space are misrepresented as being too close in a spatial updating task**

Leonie Hirsch[1]; Anna Luisa Maier[1]; Nuno De Sá Teixeira[2]; Michel-Ange Amorim[3]; Christoph von Castell[1]; Heiko Hecht[1]

[1] Johannes Gutenberg University Mainz; [2] University of Aveiro, Campus Universitário de Santiago; [3] Université Paris-Saclay, Inria, CIAMS

11 **Dyadic Learning With a High-proficiency Partner Specifically Fosters Gaze-Mediated Social Attention**

Shujia Zhang; Bin Zhan; Li Wang; Yi Jiang

Chinese Academy of Sciences

13 **In the hands of metacontrast: investigating the dual-task structure of an unconscious priming paradigm**

Charlott Wendt; Guido Hesselmann

Psychologische Hochschule Berlin

15 **Delay Adaptation in Target Tracking: partial Transfer to non-adapted Hand and full Transfer to Multisensory Spatial Offsets**

Hannes Reiber; Celine Honekamp; Loes C. J. van Dam

TU Darmstadt

17 **Novel approach to assess oculomotor behaviour in amblyopia during naturalistic tasks**

Maite Valentino; Clara Mestre; Marc Argilés; Luis Pérez-Mañá; Jaume Pujol

Universitat Politècnica de Catalunya

39 **Attention Wars in Number Processing: Voluntary vs. Reflexive Control**

Federico D'Atri[1]; Murgia Mauro[1]; Valter Prpic[2]; Luisa Lugli[3]; Carlo Fantoni[1]

[1] University of Trieste; [2] eCampus; [3] University of Bologna

41 **"Why So Serious?"—Unraveling the Neural Mechanisms of Emotional Face Detection in Trait Anxiety**

Tzu-Fei Lin; Li-Chuan Hsu; Chia-Yao Lin; Yi-Min Tien

43 **Ahead of Time: Exploring the Mechanisms of Future-Oriented Memory**

Chenxiao Guan; Jifan Zhou; Mowei Shen; Hui Chen

Zhejiang University

45 **Can children integrate audio-visual motion cues with shape in the formation of object categories?**

Eimear M. McKenna; Fiona N. Newell

Trinity College Dublin

47 **Eye gaze reinstatement during naturalistic viewing and memory retrieval in children, adults and artificial intelligence models**

Iryna Schommartz[1,2]; Bhavin Choksi[3]; Gemma Roig[3,4]; Yee Lee Shing[1,2]

[1] Department of Psychology, Goethe University Frankfurt; [2] IDeA – Center for Individual Development and Adaptive Education; [3] Computer Science Department, Goethe University Frankfurt; [4] Center for Brains Minds and Machines, Massachusetts Institute of Technology

49 **Reverse Correlation of Natural Statistics for Ecologically-Relevant Characterization of Human Perceptual Templates**

Lorenzo Landolfi[1]; Peter Neri[2]

[1] Istituto Italiano di Tecnologia; [2] École Normale Supérieure

51 **Characteristic differences in eye movements in people with Parkinson's disease**

Varun Padikal[1]; Maria Villamil[2]; Penelope F. Lawton[1]; Jiahe Cui[2]; Dana Turner[2]; Allie C. Schneider[2]; Hannah E. Smithson[2]; Jenny C.A. Read[1]; Laura K. Young[1]

[1] Newcastle University; [2] University of Oxford

53 **Assessing Visual Acuity across the Dimensions of Bloch's Law**

Constantin C. Ketz; Michael Bach; Sven P. Heinrich

University of Freiburg

55 **Predicting Complex Ganzflicker Hallucinations: The Role of Imagery and Schizotypy**

Wesley Nixon; Reshanne Reeder

University of Liverpool

57 **Deep Learning-Based Optic Chiasm Segmentation in MRI to Investigate Glaucoma-Related Visual Pathway Changes**

Amir Reza Naderi Yaghouti[1]; Khaldoon Al-Nosairy[1]; Robert Puzniak; Michael Hoffmann[1]

[1] Otto-von-Guericke-University Magdeburg

59 **Comparing the Robustness of Steady-State Visual Evoked Potentials Across Different Stimulus Features**

Sofiia Honcharova[1]; Renate Rutiku[2]

[1] Doctoral School in the Social Sciences, Jagiellonian University in Kraków; [2] Institute of Psychology, Jagiellonian University in Kraków

61 **Using generative adversarial networks to study the effect of familiarity on face perception**

Magdalena Lazarczyk; Hantao Liu; Walter Colombo; Christoph Teufel; Victor Navarro

Cardiff University

63 **Infants' reorienting efficiency depends on parental autistic traits and predicts future socio-communicative behaviors**

Simone Gori[1]; Luca Ronconi; Cantiani Chiara; Valentina Riva; Laura Franchin; Roberta Bettoni; Herman Bulf; Eloisa Valenza; Andrea Facoetti[2]

[1] University of Bergamo; [2] Università of Padua

65 **Examining the Speed-Accuracy Trade-Off in Perceptual Decision-Making in Adults with ADHD**

Abbie Robinson[1]; Ken Kilbride[2]; Redmond G. O'Connell[3]; Catherine Fassbender[1]; David P. McGovern[1]

[1] Dublin City University; [2] ADHD Ireland; [3] Trinity College Dublin

67 **The metacognitive Chimera: are two heads are better than one?**

Nicola Domenici; Marc O. Ernst

Universität Ulm

69 **Predictive and Retrospective Components of Causal Impressions**

Lina Eicke-Kanani[1]; Lukas Maninger[1]; Anna-Lena Eckert[2]; Christina Schmitter[2]; Benjamin Straube[2]; Thomas Wallis[1]

[1] Technical University of Darmstadt; [2] Philipps Universität Marburg

71 **Short-term monocular deprivation releases the deprived eye from interocular suppression without altering suppression depth.**

Claudia Lunghi[1]; Izel D. Sari[1]; David Alais[2]

[1] Ecole normale Supérieure & CNRS; [2] The University of Sydney, School of Psychology, Sydney, Australia

73 **Blur tolerance in different subject's refraction profiles: A new visual perception metric**

Pablo Concepcion-Grande; Marta Álvarez; Clara Benedi-Garcia; Carmen Cano; Amelia Gonzalez Dosal; Eva Chamorro; Jose Miguel Cleva

Indizen Optical Technologies SL

75 **The Role of Location in Visual Short-Term Memory Comparison Processes**

Lauren Hebburn; Michael Pilling; Olivia Afonso

Oxford Brookes University

77 **Unraveling Memory Engrams For Basic Visual Features**

Marius Kreis[1]; Sara-Estelle Lindwein[2]; Sebastian Müller[1]; Svenja Brodt[1]

[1] Max Planck Institute for Biological Cybernetics, Tübingen, Germany; [2] Ludwig-Maximilians-Universität, München, Germany

79 **Bridging Conflicting Views on Eye-Position Signals: A Neurocomputational Approach to Perisaccadic Perception**

Nikolai Stocks

Technische Universität Chemnitz

81 **Auditory Pitch Influence on Ensemble Processing of Visual Features: Evidence for Crossmodal Facilitation of Shape Processing**

Chien-Chun Yang[1]; Yi-Chuan Chen[2]; Su-Ling Yeh[1]

[1] National Taiwan University; [2] MacKay Medical College

83 **Movement and Visual Attention Shapes Tactile Perception**

Pierangelo Nicolás D'Onofrio Pacheco; Eckart Zimmermann

Heinrich Heine Universität Düsseldorf

85 **Impaired sustained attention as a cognitive and neurophysiological marker of ME/CFS, assessed using pupil frequency tagging**

Anosha Altaf; Montana R. Hunter; David Souto; Doug J. K. Barrett

University of Leicester

87 **A new massive multi-echo 7T fMRI dataset for broad representational sampling**

Josefine Zerbe[1,2]; Johannes Roth[1]; Maggie Mae Mell[1]; Tomas Knapen[3,4,5]; Martin Hebart[1,2,6]

[1] Justus Liebig University Gießen; [2] Max-Planck Institute for Human Cognitive and Brain Sciences, Leipzig; [3] Spinoza Centre for Neuroimaging, Amsterdam; [4] Netherlands Institute for Neuroscience, Amsterdam; [5] Vrije Universiteit, Amsterdam; [6] Center for Mind, Brain, and Behavior, Universities of Marburg, Giessen, and Darmstadt

89 **Effects of Restricted Peripheral Field-of-View, "Field-Dependence", and "Mental-Rotation" on Navigation performance**

Michael Wagner; Or Oren; Aharon Gorodishizer

Ariel University

91 **Neural decoding of viewpoint-tolerant object representations in 6-month-old infants and adults**

Mahdiyeh Khanbagi; Tijl Grootswagers; Manuel Varlet; Antonia Goetz; Genevieve Quek

Western Sydney University

93 **Disentangling Effects of Object Semantics on Visual Search: Thematic vs. Taxonomic Effects**

Lu-Chun Yeh[1]; Marius Peelen[2]; Daniel Kaiser[1]

[1] Justus Liebig University Gießen; [2] Donders Institute for Brain, Cognition and Behaviour, Radboud University

95 **Age-Related Modulations in P300 and Gamma Activity During an Oddball Task**

Oren Kadosh; Maria Lev; Ziv Siman Tov; Uri Polat

Bar-Ilan University

97 **Influence of different gaming experience on driving reaction time and eye movement behaviour**

Rathna Bharathi Seetharaman; David Pearson; Peter Allen; Helen Keyes

Anglia Ruskin University

99 **Beyond Speed: Response Time Variability Uncovers Hidden Differentiation in Contextual Cueing**

Xuelian Zang[1]; Hongyu Yang[1,2]; LiMei Shao[3]; Jiao Wu[4]

[1] Center for Cognition and Brain Disorders, Affiliated Hospital of Hangzhou Normal University; [2] Hangzhou Normal University; [3] Hangzhou Normal University Cangqian Kindergarten; [4] LMU-München

101 **Near vision training Overcomes Blurred Retinal Input, and Provides Presbyopic Subjects with Lifetime Prevention from the Dependency for Reading Glasses.**

Ziv Siman Tov; Maria Lev; Oren Kadosh; Uri Polat

Bar Ilan University

103 **Scalp event-related potentials (ERPs) reflect distinct neural processes for attention shifts, perception, and decision-making in a visual search task**

Vladislav Aksiotis[1]; Junhao Liang[2]; Li Zhaoping[1]

[1] Max Planck Institute for Biological Cybernetics; [2] University of Tuebingen, Germany

105 **The use of progressive power lens according to subject's refraction profile**

Amelia Gonzalez Dosal; Clara Benedi-Garcia; Pablo Concepcion-Grande; Marta Álvarez; Carmen Cano; Eva Chamorro; Jose Miguel Cleva

Indizen Optical Technologies (IOT)

Talk Session 25 – Eye Tracking III

11.30 – 13.00 (Left Aula)

Beyond Masking: Habituation Accounts for Saccadic Omission in Ecologically Valid Conditions

Umberto Calleri; Eckart Zimmermann

Heinrich-Heine-Universität Düsseldorf

Idiosyncratic eye-movements to faces are sensitive to encoded information

Nianzeng Zhong; William G. Hayward

Lingnan University

Accurate AI-assisted binocular limbus eyetracking in participants performing visually guided eye-movement tasks

Mark W. Greenlee[1]; Eva Keil[1]; Tina Plank[1]; Herbert Jägle[2]; Debora M. Lee Chen[3]; Iris Lu[3]; Anatoly Vorobey[4]; Mark Shovman[4]; Albert Kashchenevsky[4]

[1] University of Regensburg; [2] University Hospital Regensburg ; [3] University of California Berkeley; [4] Eyecuracy, Ltd.

Larger pupils are linked to enhanced visual, but not auditory, detection.

Veera Ruuskanen; Sebastiaan Mathôt

University of Groningen

Active vision affects early cortical stages of visual processing

Christoph Huber-Huber[1]; Floris de Lange[2]

[1] University of Trento; [2] Radboud University

Talk Session 26 – Face Perception

11.30 – 13.00 (Atrium Maximum)

The minimal exposure durations required for perceiving and embodying emotion

Renzo Lanfranco[1]; Luis Carlo Bulnes[2]; Axel Cleeremans[3]

[1] Karolinska Institute; [2] Vrije Universiteit Brussel; [3] Université libre de Bruxelles (ULB)

Social and emotional features shape dynamic facial expression representations

Hilal Nizamoglu Caliskan; Katharina Dobs

Justus Liebig University Giessen, Giessen, Germany

The cellular basis of human face recognition in the fusiform gyrus

Bruno Rossion[1]; Marie-Alphée Laurent Bruno[1]; Corentin Jacques[1]; Xiaoqian Yan[2]; Pauline Jurczynski[1]; Sophie Colnat-Coulbois[1]; Louis Maillard[1]; Benoit Cottereau[3]; Laurent Koessler[1]; Jacques Jonas[1]

[1] CNRS-Université de Lorraine; [2] Fudan University; [3] Cerco-Université Paul Sabatier

Choose your own prosopagnosia index: Short forms of PI20 are reliable and valid

Inga María Ólafsdóttir[1]; Erling Nørkær[2]; Randi Starrfelt[2]; Edwin Burns[3]; Punit Shah[4]; Christian Gerlach[5]; Katherine Maw[6]; Geoffrey Beattie[6]; Nicola van Rijsbergen[6]; Nadia Nawi[6]; Rubina Fray Gogolu[2]; Stella Klara Sørensdóttir Lystlund[2]; Heida Maria Sigurdardottir[7]

[1] Reykjavik University; [2] University of Copenhagen; [3] Swansea University; [4] University of Bath; [5] University of Southern Denmark; [6] Edge Hill University; [7] University of Iceland

How Do We View Faces on Zoom Calls?: Live Video Slows Perceptual Search of Faces

Chloe Sainsbury; Gregory Davis

University of Cambridge

Talk Session 27 – Clinical Vision III

11.30 – 13.00 (Lecture Hall HS19)

Competing Binocular Input During Development Disrupts Sensitivity to Environmental Regularities: Evidence from Congenital and Developmental Cataracts

Mohammed Salman Sarkar[1]; Subiksha Saravanan[2]; Shashikant Shetty[2]; Amit Yashar[1]; Bat-Sheva Hadad[1]

[1] University of Haifa; [2] Aravind Eye Hospital

Neurochemical and BOLD signal change in hMT+ and attentional networks associated with recovery after occipital stroke

Hanna Willis[1]; Lucy Starling[2]; Isobel Preston Rout[2]; Brendan Sargent[2]; Aaron Kay[2]; Rebecca Millington-Truby[2]; Betina Ip[2]; Matthew Cavanaugh[3]; Sara Ajina[4]; Krystel Huxlin[3]; Marco Tamietto[5]; Holly Bridge[2]

[1] CNRS - École Normale Supérieure; [2] University of Oxford; [3] University of Rochester; [4] University College London; [5] University of Torino

Unique Face-Processing Mechanisms in Autism and Congenital Prosopagnosia Diverge from Typical Development

Marissa Hartston; Galia Avidan; Bat-Sheva Hadad

Overconfidence in filled-in perceptions in the foveal rod scotoma in mesopic vision

Hui Men; Alexander C. Schütz

Philipps Universität Marburg

Mixture Modeling of Crowding Errors Reveals Reduced Peripheral Bias in Autism

Zainab Naaran; Amit Yashar

University of Haifa

Symposium Session 12 – Examining vision and visual dysfunction with advanced neuroimaging

11.30 – 13.00 (Audimax)

Cortical visual field representation and data integration following optic neuritis

Netta Levin; Ruth Abulafia

Haddassh Hebrew University Hospital

Consequences of congenital malformations of the optic chiasm on the visual brain

Michael B. Hoffmann

Otto von Guericke University Magdeburg

Using high-resolution fMRI to investigate the effects of amblyopia on the mesoscale functional organization of the human visual cortex

Shahin Nasr

Massachusetts General Hospital, Harvard Medical School

Fixel-based analysis of diffusion-weighted imaging data to assess neurodegeneration in homonymous hemianopia

Hinke N. Halbertsma[1]; Shereif Haykal; Hanna Willis; Holly Bridge; Frans W. Cornelissen

[1] University Medical Center Groningen

Using magnetic resonance spectroscopy to investigate the role of neurochemistry in human visual system function and dysfunction

Holly Bridge[1]; Hanna Willis[2]; Betina Ip[1]

[1] University of Oxford; [2] École normale supérieure, PSL University, CNRS

Symposium Session 13 – Individual differences in perceptual and sensorimotor processing: A look into real-world expertise

11.30 – 13.00 (Lecture Hall P1)

Quantifying human edge sensitivity in real-world tasks

Lynn Schmittwilken; Anna L. Haverkamp; Marianne Maertens

Technische Universität Berlin

Estimating individual differences in perceptual, cognitive, and motor processes from behavior in tracking tasks

Dominik Straub; Lukas Maninger; Constantin A. Rothkopf

TU Darmstadt

Adaptive Actions and Frugal Memory: How Gaze Supports Natural Behavior

Ashima Keshava; Peter König

University of Osnabrück

Old hands take more time: Healthy ageing is associated with subtle changes in visuomotor control when grasping and dropping objects

Jolande Fooken[1]; Renato Moraes[2]; J. Randall Flanagan[3]; Constantin Rothkopf[1]

[1] TU Darmstadt; [2] USP - Universidade de São Paulo; [3] Queen's University

Gaze behavior in face-to-face interaction: A cross-cultural investigation between Japan and the Netherlands

Roy Hessels[1]; Toshiki Iwabuchi[2]; Diederick Niehorster[3]; Ren Funawatari[2]; Jeroen Benjamins[1]; Sayaka Kawakami[2]; Marcus Nyström[3]; Momoka Suda[2]; Ignace Hooge[1]; Motofumi Sumiya[2]; Julie Heijnen[1]; Martin Teunisse[1]; Atsushi Senju[2]

[1] Utrecht University; [2] Hamamatsu University School of Medicine; [3] Lund University

Talk Session 28 – Binocular & Rivalry

14.30 – 15.30 (Left Aula)

Eye-specific attention modulates neural activity in monocular channels in the primary visual cortex

Jinyou Zou[1,2]; Hongtao Zhang[3]; Sheng He[3]; Peng Zhang[3]

[1] Aier Academy of Ophthalmology, Central South University; [2] Aier Institute of Optometry and Vision Science; [3] State Key Laboratory of Brain and Cognitive Science, Institute of Biophysics, Chinese Academy of Sciences

Two opposing yet complementary ocular dominance plasticity: thalamus strengthens the weak channel while higher cortex listens to the strong signal

Yazhu Qian[1]; Zhouyuan Sun[1]; Yizhi Wang[1]; Chencan Qian[1]; Jiawei Zhou[2]; Peng Zhang[1]

[1] Institute of Biophysics, Chinese Academy of Sciences; [2] Wenzhou Medical University

Motor cortex excitability modulates visual plasticity during monocular deprivation

Izel D. Sari[1]; Hanna Willis[1]; Vasileia Papakosta[1]; Xavier Corominas-Teruel[2]; Antoni Valero-Cabré[3]; Claudia Lunghi[1]

[1] Laboratoire des systèmes perceptifs, Département d'études cognitives, École normale supérieure, CNRS; [2] Danish Research Centre for Magnetic Resonance; [3] Causal Dynamics, Plasticity and Rehabilitation Group, FRONTLAB team, Institut du Cerveau et de la Moelle Epinière (ICM), CNRS

CFS and bCFS methods revisited

Nikola Peise; Cordula Hunt; Günter Meinhardt

Johannes Gutenberg University Mainz

Talk Session 29 – EEG & Imaging Methods

14.30 – 15.30 (Atrium Maximum)

The largest frequency-tagged responses of the human brain occur to visual stimulation under 4 Hz when taking higher harmonics into account

Talia L. Retter[1]; Bruno Rossion[1]; Christine Schiltz[2]

[1] Université de Lorraine, CNRS; [2] University of Luxembourg

Differential engagement of early visual and dorsolateral prefrontal areas with increasing visual working memory load

Zhiyan Wang; Antonia Wittmann; Sinah Wiborg; Markus Becker; Sebastian Frank

University of Regensburg

Modulating Sensory Sampling and Prior Learning with Transcranial Random Noise Stimulation

Luca Battaglini[1]; Giuseppe Di Dona[2]; Marianna Musa[1]; Luca Tarasi[3]; Alessia Santoni[4]; Vincenzo Romei[3]; Marco Bertamini[1]; Gaia Blangero[1]; Letizia Roubal[1]; Elena Taho[1]; Luca Ronconi[2]

[1] University of Padua; [2] University of Trento; [3] University of Bologna; [4] IRCCS Ospedale San Raffaele

Decomposition of task-specific responses in the multiple demand network

Neda Afzalian; Mohammad Ebrahim Katebi; Reza Rajimehr

Institute for Research in Fundamental Sciences (IPM)

Talk Session 30 – Development & Aging II

14.30 – 15.30 (Lecture Hall HS19)

Gestalt processing deficits in children treated for early-onset blindness late in life

Lukas Vogelsang[1]; Marin Vogelsang[1]; Priti Gupta[2]; Pragya Shah[2]; Purva Sethi[2]; Stutee Narang[2]; Suma Ganesh[2]; Pawan Sinha[1]

[1] MIT; [2] Dr. Shroff's Charity Eye Hospital

The third visual pathway for social perception in the infant brain

Manuel Mello; Emilie Serraille; Jean-Rémy Hochmann; Liuba Papeo

Institut des Sciences Cognitives Marc Jeannerod, CNRS

A study on full-term and preterm infants to address the role of visual experience and brain maturation in categorical object perception

Céline Spriet[1]; Liuba Papeo[2]; Jean-Rémy Hochmann[2]

[1] Institut des Sciences Cognitives Marc Jeannerod, CNRS, UMR5229; [2] Institut des Sciences Cognitives Marc Jeannerod, UMR5229, CNRS & University Lyon 1

Age-related differences in visual sampling and fixation-related potentials during overt search

Milena Rota; Douglas Barrett; Ascensión Pagán; David Souto

University of Leicester

Symposium Session 14 – Visual representations of bodies: Neural and computational mechanisms of action and social perception

14.30 – 15.30 (Audimax)

Representations of static and dynamic bodies in macaque visual cortex.

Rufin Vogels

KU Leuven

Shared-Feature Visualization by parallel backpropagation for body-selective neurons in the STS

Alexander Lappe[1]; Anna Bognár[2]; Rufin Vogels[2]; Martin A. Giese[1]

[1] University of Tübingen; [2] KU Leuven

Time course of neural midlevel representations underlying action recognition

Marius Zimmermann; Angelika Lingnau

University of Regensburg

How body perception contributes to social interaction

Beatrice de Gelder

Maastricht University

Symposium Session 15 – Understanding gaze

14.30 – 15.30 (Lecture Hall P1)

Active and passive perception of direct gaze

Gernot Horstmann; Linda Linke

Bielefeld University

Recognition of Mental Processes of Others Based on Gaze Characteristics

Mehtap Cakir; Anke Huckauf

Ulm University

Towards imperceptible gaze guidance in extended reality

Enkelejda Kasneci

Technical University of Munich

Poster Session 6

15.30 – 17.00 (Foyer)

2 Beyond the Embedded Figures Test: Investigating the Relationship Between Autistic-Like Traits and Visual Processing Styles Across Tasks

Ann-Kathrin Beck; Hannah Plueckebaum; Thomas Lachmann

University of Kaiserslautern-Landau

58 **Effect of Motor and Cognitive Rehabilitation Strategies on Visuomotor Functional Connectivity in Glaucoma Patients: A Pilot Study**

Rohit Misra[1]; Gokulraj T Prabhakaran[1]; Mahima V Rebello[1]; Khaldoon O Al-Nosairy[1]; Rosalie Beyer[1]; Constantin Freitag[2]; Cynthia Moffack Djuloun[1]; Francie H Stolle[1]; Martin Behrens[3]; Tom Behrendt[2]; Hagen Thieme[1]; Lutz Schega[2]; Michael B Hoffmann[1]

[1] Ophthalmic Department, University Hospital Magdeburg; [2] Department of Sport Science, Institute III, Otto von Guericke University Magdeburg; [3] University of Applied Sciences for Sport and Management Potsdam

60 **Overcoming Social Perception Challenges in Nonverbal Human-Robot Communication**

Yu Fang[1]; Matti Krüger[2]

[1] Honda Research Institute Japan Co., Ltd.; [2] Honda Research Institute GmbH

62 **Modelling the manifestation of signal timing discrepancies in the visual evoked potential**

Sven P. Heinrich; Julia Haldina; Leon Pfeiffer

University of Freiburg

64 **Decoding Oscillatory Patterns of Attention Load in Perceived Visibility Using Multivariate EEG Classification**

Irem Akdogan[1]; Haluk Ogmen[2]; Hulusi Kafaligonul[3]

[1] Department of Neuroscience, Aysel Sabuncu Brain Research Center, Bilkent University, Ankara, Turkiye; [2] Laboratory of Perceptual and Cognitive Dynamics, Electrical & Computer Engineering, Ritchie School of Engineering & Computer Science, University of Denver, Denver, CO, USA; [3] Neuroscience and Neurotechnology Center of Excellence (NOROM), Faculty of Medicine, Gazi University, Ankara, Turkiye

66 **The Influence of Trait Anxiety on Emotional Face Perception: A Probit Function Analysis**

Li-Chuan Hsu[1]; Pi-Chun Huang[2]; Chia-Yao Lin[1]; Yi-Min Tien[3]

[1] College of Medicine, China Medical University; [2] National Cheng Kung University; [3] Chung Shan Medical University

68 **Fine-Tuning Perception: Exploring Vernier Acuity and Cognitive Control in Preschool Children Aged 5-6 Years**

Anna Bánki; Katharina Limbach; Sarah Weigelt

Technische Universität Dortmund

70 **Contextual scaling of magnitude discrimination for size and number**

Yosuke Sakamoto; Masamichi J. Hayashi

National Institute of Information and Communications Technology

72 **Subjective experience in visual perception research**

Marianne Maertens; Lynn Schmittwilken

Technische Universität Berlin

74 **Influence of Visual Cues on the Medication Package on Correct Dosing**

Lea Laasner Vogt; Sabine Bremermann-Reiser; Ester Reijnen

Zürcher Hochschule für Angewandte Wissenschaften (ZHAW)

76 **Remote Distractor Location as a Motor-Relevant Cue for Contextual Saccadic Adaptation**

Laurent Madelain; Maxime Martel

University of Lille - CNRS

78 **Ponzo upside-down: revisiting the role of depth cues and contour proximity in the classic Ponzo illusion and Ponzo-like Illusions**

Elina Troost; Alina Bauer; Christoph von Castell

Johannes Gutenberg University Mainz

80 **Transcranial Random Noise Stimulation Rebalances Peripheral Visual Asymmetries: Evidence from Contrast Sensitivity Function**

Berkay Istil[1]; Simay Uner[2]; Irem Akdogan[2]; Hulusi Kafaligonul[3]

[1] National Magnetic Resonance Research Center (UMRAM), Bilkent University; [2] Department of Neuroscience, Aysel Sabuncu Brain Research Center, Bilkent University; [3] Neuroscience and Neurotechnology Center of Excellence (NOROM), Faculty of Medicine, Gazi University

82 **Diverse gaze shift strategies for intercepting fast-moving targets: insights from eye and head movements in professional baseball players**

Hiroshi Ueda; Naoki Saijo; Makio Kashino

NTT Communication Science Laboratories

84 **University teaching spaces: some are more equal than others**

Xi (Olivia) Chen; Saud Alrashidi; Isabella Coombs; Edwin Dalmaijer; Jay Davies; Joel Ross; Nick Scott-Samuel; Ute Leonards

University of Bristol

86 **Will they come in peace?— on psychological investigations into the representation of extraterrestrial life**

Niklas Döbler; Claus-Christian Carbon

University of Bamberg

88 **Optimal Transport as a Model for Sub-Letter Orthographic Processing**

Jack Taylor[1,2]; R. Sinn[1]; C. Iaia[1]; C. J. Fiebach[1,3]

[1] Department for Psychology, Goethe University Frankfurt, Frankfurt am Main, Germany; [2] School of Psychology and Neuroscience, University of Glasgow, Glasgow, United Kingdom; [3] Brain Imaging Center, Goethe University Frankfurt, Frankfurt am Main, Germany

90 **Respiration modulates time estimation of brief intervals in humans**

Jinhui Guo; Wen Zhou; Bin Zhou

State Key Laboratory of Cognitive Science and Mental Health, Institute of Psychology, Chinese Academy of Sciences

92 **Holistic and part-based face recognition in autism**

Mette Elmose Andersen[1]; Linnea Brønnum[1]; Esben Helby Mandahl[1]; Christian Gerlach[2]

[1] University of Southern Denmark; [2] Aalborg University

94 **A continuous adjustment task allows for better understanding of visual feature integration in a Sequential Metacontrast Paradigm**

Marie Holdsworth[1]; Maëlan Q. Menétrey[2]; Can Oluk[1]; Michael H. Herzog

[1] Laboratory of Psychophysics, Brain Mind Institute, École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland; Psychophysics and Neural Dynamics Lab, Department of Radiology, Lausanne University Hospital (CHUV) and University of Lausanne, Switzerland; [2] Psychophysics and Neural Dynamics Lab, Department of Radiology, Lausanne University Hospital (CHUV) and University of Lausanne (UNIL), Lausanne, Switzerland; The Sense Innovation and Research Center, Lausanne, Switzerland

96 **Exploring Natural Sceneries: A Comparative Eye-Tracking Study of Freely Moving Participants in Virtual and Real Environments**

Alexander Kreß; Frank Bremmer

Philipps Universität Marburg

98 **The learning of multiple prior distributions in time estimation: motor-schema specificity rather than body-part specificity**

Henrik Eichhorn; Christoph von Castell; Heiko Hecht

Johannes Gutenberg University Mainz

100 **The Aesthetic Appreciation of Multi-Stable Images**

Heiko Hecht; Levin Saracbasi

Johannes Gutenberg University Mainz

102 **The Influence of Occlusion Boundary and Duration on Perceived Motion Trajectories**

Hidemi Komatsu[1]; Kayoko Murata[2]

[1] Keio University; [2] Kobe Gakuin University

104 **Confounding effects of stimulus-specific biases on serial dependence**

Ayberk Ozkirli[1], Andrey Chetverikov[2], David Pascucci[1,3,4]

[1] Laboratory of Psychophysics, Brain Mind Institute, École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland; [2] Department of Psychosocial Science, Faculty of Psychology, University of Bergen, Norway; [3] Psychophysics and Neural Dynamics Lab, The Radiology Department, Lausanne University Hospital and University of Lausanne, Lausanne, Switzerland; [4] The Sense Innovation and Research Center, Lausanne and Sion, Lausanne, Switzerland

106 Perceived Curvature Predicts Contour Liking Across Stimulus Categories

Erick Gustavo Chuquichambi[1]; Claudia Damiano[2]; Dirk B. Walther[2]; Enric Munar[1]

[1] University of the Balearic Islands; [2] University of Toronto

Rank Prize Lecture

17.00 – 18.30 (Audimax)

Perception, Action, and Information: Vision Outside-In

William H. Warren

Brown University Providence

Thursday, 28th August

Talk Session 31 – Art & Aesthetics

08.30 – 10.00 (Left Aula)

A Smile Out of Focus: When Art Meets Visual Science

Claus-Christian Carbon; Alexander Pastukhov

University of Bamberg

Using Gibbs Sampling with People to characterize perceptual and aesthetic evaluations in multidimensional visual stimulus space

Eline Van Geert[1,2]; Nori Jacoby[1,3]

[1] Max Planck Institute for Empirical Aesthetics, Germany; [2] KU Leuven, Belgium; [3] Cornell University, United States of America

The Beauty of Compression: Explaining Attractiveness and Other Human Facial Judgments with Unsupervised Learning

Francisco M. López; Jochen Triesch

Frankfurt Institute for Advanced Studies

Like What You See? Aesthetic Experiences and Eye Movements during Passive Viewing of Human vs. AI-generated Scene Imagery

Long Feng Huang; Matthew D. Bachman; Cendri A. Hutcherson; Jonathan S. Cant

University of Toronto Scarborough

Guiding the Gaze: How label content shapes visitor engagement in the art museum

Zsofia Pilz; Francesco Walker

Leiden University

Talk Session 32 – Color II

08.30 – 10.00 (Atrium Maximum)

The nature of complementary colours in afterimages

Christoph Witzel

University of Southampton

'Detection and visibility of coloured stimuli in normal vision and in subjects with congenital colour deficiency'

John Barbur

City University, London

Colour perception in peripheral vision is particularly affected by prior knowledge.

Matteo Toscani[1]; Anna Metzger[1]; Alfie McMullen-Joyce[1]; Callum Perry[1]; Matteo Valsecchi[2]

[1] Bournemouth University; [2] University of Bologna

Pupil size reveals the perceptual nature of synesthetic color experience

Christoph Strauch[1]; Casper Leenaars[1]; Romke Rouw[2]

[1] Utrecht University; [2] University of Amsterdam

Biased Colors in Biased Space

Andrey Chetverikov

University of Bergen

Talk Session 33 – Perception & Action

08.30 – 10.00 (Lecture Hall HS19)

Retinal-Flow Curl: From Nuisance to Essential Cue in Heading Computation

Joan Lopez-Moliner; Kontessa Zorpala

Universitat de Barcelona

Effects of post-saccadic masking on action and perception

Eckart Zimmermann; Sandra Tyralla

Implied motion in accessibility icons: Perceived facing direction automatically primes directionally corresponding motor responses

Marina Pace[1]; Tessa Bury; Benjamin van Buren[1]

[1] The New School for Social Research

Visual Search during Active Locomotion

Gianni Bremer; Markus Lappe

Universität Münster

Does the optical flow illusion give us the feeling of moving forward, not only in our bodies but also in our lives?

Ayumi Kambara[1]; Yves Rossetti[2]

[1] Kyoto University of Advanced Science; [2] Lyon Neuroscience Research Centre

Symposium Session 16 – Out of sight, but not out of mind: How the human brain represents images that are not directly seen

08.30 – 10.00 (Audimax)

The question of representational formats in working memory (symposium introduction)

Rosanne L. Rademaker

Ernst Strüngmann Institute (ESI) for Neuroscience in Cooperation with Max Planck Society, Frankfurt, Germany

Early visual cortex is recruited to act as a comparison circuit between mental representations and visual inputs

Maria V. Servetnik; Rosanne Rademaker

Ernst Strüngmann Institute for Neuroscience in Cooperation with Max Planck Society

Multiple Formats of Visuo-spatial Working Memory

Joana Pereira Seabra; Andreea-Maria Gui; Carsten Allefeld; Vivien Chopurian; Alessandra S. Souza; Thomas Christophel[1]

[1] Humboldt University of Berlin

Representational formats to encode context and priority in visual working memory

Brad Postle

University of Wisconsin–Madison

Behavioral demands shape the format of visual working memory

Clayton Curtis[1]; Ziyi Duan; Nathan Tardiff

[1] New York University

Symposium Session 17 – Visual illusions and related phenomena as tools for under-standing perception: A symposium in honor of Lothar Spillmann

08.30 – 10.00 (Lecture Hall P1)

Bilateral symmetry and figure-ground segregation

Birgitta Dresp

CNRS UMR 7357 and University of Strasbourg

Study Visual Illusions Outside the Research Lab: Hong Kong Peak Tram Illusion and Its Implications to our Verticality Perception

Chiahuei Tseng[1]; Hiu Mei Chow[2]

[1] Tohoku University; [2] Department of Psychology, St. Thomas University, Fredericton, Canada

Color filling-in: an example with the Watercolor effect

Frederic Devinck

Université Rennes

The hierarchical facial feature integration theory: A new paradigm in face perception

Baingio Pinna

University of Sassari

Long-range Interactions – A Personal History of a Long-term Collaboration between Laboratories

John Werner

University of Oxford and University of California Davis

Poster Session 7

10.00 – 11.30 (Foyer)

1 Visual mental imagery enhances emotional responses to positive but not negative episodic memories

Emma Austin[1]; Emmanuel Ale; Edwin Burns[2]; Reshanne Reeder[1]

[1] University of Liverpool; [2] Swansea University

3 What is the impact of digital twin models on visual perception?

Kazim Hilmi Or

Private Office of Ophthalmology

5 Microstimulation of V4 Domains Causally Modulates Visual Perception in Non-Human Primates

Younes Valibeigi; Christopher C. Pack

Montreal Neurological Institute, McGill University, Quebec, Canada

7 Amodal completion in natural scenes

Roberto Scott Luciani[1]; Paul Henderson[1]; Michele Sevegnani[1]; Lars Muckli[1]; Benjamin Peters[2]

[1] University of Glasgow; [2] University of Edinburgh

9 The path from vision to feelings: comparing the performance of explicit models and neural networks in predicting affective responses to indoor environments

Fatih Deniz; Kynthia Chamilothori; Linghan Zhang; Yvonne de Kort

Eindhoven University of Technology

11 **The role of local curvature maxima and minima and information in the recognition of artificial and natural planar shapes**

Gunnar Schmidtmann[1]; Nicholas Baker[2]; Kevin Lande[3,4]; Filipp Schmidt[5]

[1] Eye & Vision Research Group, University of Plymouth, Plymouth, United Kingdom; [2] Department of Psychology, Loyola University Chicago, Chicago, IL, United States; [3] Department of Philosophy, York University, Ontario, Canada; [4] Centre for Vision Research, York University, Ontario, Canada; [5] Justus Liebig University Giessen

13 **The role of Visual gravitational motion in modulating spatial mislocalizations**

Rodrigo Freitas[1]; Samuel De Sousa Silva[1]; Nuno De Sá Teixeira[2]

[1] University of Aveiro; [2] William James Center for Research

15 **A Machine Learning Approach to Predict Valence and Arousal in Virtual Reality Using Eye-Tracking**

Michał Kuniecki[1]; Beata Pacula-Leśniak[1]; Agata Szymańska[1]; Paweł Jemioło[2]

[1] Jagiellonian University, Institute of Psychology; [2] AGH University of Krakow

17 **Estimating Spectral BRDF Parameters Using Handheld Devices**

Bita Panahi; Aditya Sole; Ivar Farup

NTNU

19 **Relationship between the material perception of glass or metal and the vergence distance**

Yuta Sato; Hideki Tamura; Tetsuto Minami; Shigeki Nakauchi

Toyohashi University of Technology

21 **Visually-induced haptic perception in VR: Visual manipulation of deceleration rate and vibration of approaching object**

Takao Fukui; Yudai Nishidamari

Tokyo Metropolitan University

23 **The Odd-one-out Asymmetry in Chroma Discrimination**

Laysa Hedjar; Florian S. Bayer

Justus-Liebig-Universität Gießen

25 **What to probe next? Active Stimulus Generation for Similarity Studies using GANs**

Victor Navarro; Christoph Teufel

Cardiff University

27 **A Reflectance-Based Colour Constancy Model Validated by Human Performance in Virtual Reality**

Hamed Heidari-Gorji; Raquel Gil Rodriguez; Karl Gegenfurtner

Justus Liebig University Giessen

69 **Eye-movements during active exploration of material qualities**

Lisa Pui Yee Lin[1]; Erwan David[2]; Knut Drewing[1]; Katja Doerschner[1]

[1] Justus-Liebig University Gießen; [2] Computer Science Laboratory (LIUM), Le Mans University

71 **Spatial context differently affects perceptual processing style in distinctive nationalities.**

Kyoko Hine[1]; Gregor Volberg[2]; Anton L. Beer[2]; Yoshiaki Tsushima[3]

[1] Toyohashi University of Technology; [2] University of Regensburg; [3] National Institute of Information and Communications Technology

73 **Optimising the sound-induced flash illusion paradigm: Evaluating a shortened version for efficient measurement of multisensory integration**

Nina Meret Zumbrunn; Jake Tiernan; Louise Hopper; David P. McGovern

Dublin City University

75 **Spatial Distribution of Exogenous Attention in 3D Space**

Dilara Erisen[1]; Guillaume S. Masson[2]; Frank Bremmer[1]; Martin Szinte[2]; Baptiste Caziot[1]

[1] Applied Physics and Neurophysics, Philipps-Universität Marburg, Marburg, Germany; [2] Institut de Neurosciences de la Timone, CNRS, Aix-Marseille Université, Marseille, France

77 **Haptic saliency in perception of objects' 3D shape**

Anna Metzger; Matteo Toscani

Bournemouth University

79 **Attentional prioritization and deprioritization in perception and visual working memory**

Issam Tafech[1]; Karla Matic[2,3]; Polina Iamshchinina[4]; Thomas Christophel[1]

[1] Humboldt University of Berlin; [2] Bernstein Center for Computational Neuroscience Berlin; [3] Berlin Center for Advanced Neuroimaging, Charité – Universitätsmedizin Berlin; [4] Princeton Neuroscience Institute - Princeton University

81 **Can visual imagery of materials elicit the material-weight illusion?**

Christian Houborg[1]; Roland W. Fleming[2]

[1] Justus Liebig University Giessen; [2] Center for Mind, Brain and Behavior, University of Marburg, Justus Liebig University Giessen and the Technical University of Darmstadt (DE)

83 **Reassessing Bloch's law with simple and complex stimuli**

Pietro Amerio[1]; Renzo Lanfranco[2]; David Carmel[3]; Axel Cleeremans[1]

[1] Université libre de Bruxelles; [2] Karolinska Institutet; [3] Victoria University of Wellington

85 **The Role of Perceived Material in Associative Recognition of Familiar and Unfamiliar Objects**

Öykü Özdemir; Aslı Kılıç; Dicle Dövencioğlu

Middle East Technical University

87 **Evidence from Serial Dependence of Direct Inhibition of Distractor in Visual Search**

Kaede Hashiguchi; Yuichi Tanaka; Hiroshi Higashi

The University of Osaka

89 **Differential processing of salient task-irrelevant visual features in early visual areas between children and adults**

Markus Becker; Sebastian Frank

Universität Regensburg

91 **Perceived Material Qualities from Turkish and Japanese Onomatopoeia Suggest Universality**

Defne Akkuş[1]; Fatma Nefes Tekin[2]; Dicle Dövencioğlu[1]

[1] Middle East Technical University; [2] Boğaziçi University

93 **Social gaze of prematurely born preschoolers during real-life social interactions**

Rowena Van den Broeck[1]; Lisa Gistelinck[1]; Bieke Bollen[2]; Els Ortibus[2]; Gunnar Naulaers[2]; Roy Hessels[3]; Bart Boets[1]

[1] KU Leuven; [2] UZ Leuven; [3] Utrecht University

95 **Can I ignore perceptual uncertainty? – Single participant EEG correlates of perceptual (un)certainty with and without attention**

Mareike Wilson[1]; Ellen Joos[2]; Anne Giersch[3]; Lukas Hecker[1]; Ludger Tebartz van Elst[4]; Jürgen Kornmeier[2]

[1] University of Freiburg; [2] Institute for Frontier Areas of Psychology and Mental Health; [3] University of Strasbourg; [4] University of Freiburg, Medical Center

97 **Depth Cue Recovery in Digital Optical Visualization Systems**

Till-Hendrik Hage[1,2]; Enrico Geißler[1]; Jens Haueisen[2]

[1] Carl Zeiss AG; [2] Ilmenau University of Technology

99 **Revisiting the size scaling of isolated letters in the periphery**

Tom R. Scherzer; Antje Nuthmann

Kiel University

101 **Effects of Vertical Display Misalignment in See-Through Augmented Reality**

Alice Sansalone[1]; Andrea Canessa[1]; Silvio Sabatini[1]; Gerrit Maus[2]; Agostino Gibaldi[2]

[1] Università degli Studi di Genova; [2] Magic Leap

103 **Multisensory integration is not always lead by visual information: evidence from natural material sounds and onomatopoeia**

İrem Tuncel; Dicle Dövencioğlu

Middle East Technical University

105 Prediction of eyestrain and motion sickness based on eye parameters during exposure to a visual flicker stimulus

Heiko Hecht; Henrik Eichhorn; Marlene Wessels; Christoph von Castell

Johannes Gutenberg University Mainz

107 Holistic and part-based face perception in autism

Christian Gerlach[1]; Mette Elmose Andersen[2]; Linnea Brønnum Hansen[2]; Esben Helby Mandahl[2]

[1] Aalborg University; [2] University of Southern Denmark

Talk Session 34 – Low Level Vision II

11.30 – 13.00 (Left Aula)

Stimulus familiarity facilitates neural prediction of naturalistic dynamic input in feature-specific manner

Ingmar de Vries[1]; Eva Berlot[2]; Christoph Huber-Huber[1]; Tiziano Causin[1]; Floris de Lange[2]; Moritz Wurm[1]

[1] Università degli Studi di Trento; [2] Radboud University

Temporal integration of visual information is affected by fast spatial grouping

Ljubica Jovanovic; Pascal Mamassian

Laboratoire des systèmes perceptifs, Département d'études cognitives, École normale supérieure, CNRS

Modulating Visual Processing Jointly Before and After Target Presentation

Melissa Allouche; Lisa Schwetlick; Michael H. Herzog

Laboratory of Psychophysics, Brain Mind Institute, École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland

Differential contributions of multiple parallel pathways mediating visually-guided oculomotor behavior in the primate brain

Tatiana Malevich; Matthias P. Baumann; Yue Yu; Tong Zhang; Ziad Hafed

University of Tuebingen, Germany

Perceptual filling-in at the natural blind spot requires visual awareness and involves feedback from higher cortex

Chencan Qian[1]; Yinghua Xi[2]; Xinyu Zhang[1]; Xiaotong Zhang[2]; Peng Zhang[1]

[1] Institute of Biophysics, Chinese Academy of Sciences; [2] Zhejiang University

Talk Session 35 – Multisensory Processing II

11.30 – 13.00 (Atrium Maximum)

Predictive gaze orienting. Investigating Visual Attention Dynamics in Immersive VR Environment

Vasiliki Kondyli[1]; Marcin Leszczyński[2,3]

[1] Lund University; [2] Jagiellonian University, Krakow; [3] Columbia University College, NY

Multisensory Continuous Psychophysics: Integration of Visual and Audio Cues for Direction Perception

Bjoern Joerges; John J.-J. Kim; Laurence R. Harris

York University

When Vision Aligns with Touch but Not Audition: Sensory-Specific vs. Supramodal Priors in Speed Perception

Alessia Tonelli[1]; Cameron Phan[2]; David Alais[2]

[1] Istituto Italiano di Tecnologia; [2] The University of Sydney

Training in visual object tracking reduces cross-modal vestibular suppression

Dominik Aschenbrenner; Sonja Hartl; Ayumi Sarah Wandl; Ekaterina-Rita Hegmann; Sebastian M. Frank

Universität Regensburg

Vehicle sound affects pedestrians' perception of accelerating (audio-)visual vehicles.

Thirsa Huisman; Daniel Oberfeld-Twistel

Johannes Gutenberg-Universität Mainz

Talk Session 36 – Physical Properties

11.30 – 13.00 (Lecture Hall HS19)

Invariant Coding of Local Biological Motion Signals: Evidence for a 'Life Motion Detector' in the Human Brain

Zhihan Gao; Lianzi Xing; Rui Wang; Yi Jiang

Institute of Psychology, Chinese Academy Sciences

Is this motion from real human or generated by AI?

Miao Cheng[1]; Xiaoyue Yang[2]; Ken Fujiwara[3]; Yoshifumi Kitamura[1]; Satoshi Shioiri[1]; Chiahuei Tseng[1]

[1] Tohoku University; [2] University of Hong Kong; [3] National Chung Cheng University

Accurate Visual Perception of Object Mass in Virtual Reality

Fabrizio Lepori[1]; Veronica Pisu[1]; Vivian C. Paulun[2]; Guido Maiello[1]

[1] University of Southampton; [2] MIT

Physical reasoning during motor learning aids people in transferring mass, but not visuomotor mappings

Fabian Tatai[1]; Dominik Ürüm[1]; Maria Eckstein[2]; Constantin A. Rothkopf[1]

[1] Technical University Darmstadt; [2] Google DeepMind

Material metamerism: the effect of dynamic cues on visual discrimination of material properties

Takuma Morimoto[1]; Behnaz Kavoosighafi[2]; Hannah E. Smithson[1]; Rafał Mantiuk[3]

[1] University of Oxford; [2] Linköping University; [3] University of Cambridge

Talk Session 37 – Shape Perception

11.30 – 13.00 (Audimax)

Neural mechanisms of Metacontrast Masking with Symmetric Stimuli

Marianna Musa; Giulio Contemori; Carolina Maria Oletto; Stefano Vicentin; Luca Battaglini; Giorgia Cona; Marco Bertamini

University of Padua

Generative Phenomenology of Form Perception

Qasim Zaidi; Akihito Maruya Akihito

State University of New York

Does object recognition need contour integration? A human-DNN comparison

Michael H. Herzog; Ben Lonnqvist; Elsa Scialom; Abdulkadir Gokce; Zehra Merchant; Martin Schrimpf

École Polytechnique Fédérale de Lausanne (EPFL)

The holographic model captures early symmetry responses best

Alexis Makin[1]; Emma Austin[1]; Carolina Maria Oletto[2]; Marco Bertamini[2]

[1] University of Liverpool; [2] University of Padova

Using Symmetry to study the mechanisms of Metacontrast Masking.

Marco Bertamini; Marianna Musa; Carolina Maria Oletto; Luca Battaglini; Giulio Contemori

University of Padua

Symposium Session 18 – Perception of non-rigid motions

11.30 – 13.00 (Lecture Hall P1)

Nonrigid motion perception underlying material and animacy impressions

Takahiro Kawabe

NTT Communication Science Laboratories

Rich non-rigid percepts, beyond biology: Perceiving point-light cloths waving in the wind

Merve Erdogan; Wenyan Bi; Ilker Yildirim; Brian Scholl

Yale University

Spatiotemporal Integration of Motion in Human Crowds

Jiayi Pang; William H. Warren

Brown University

Nonrigid motion perception and eye movements

Krischan Koerfer; Markus Lappe

University of Münster

Motion cues and the perception of materials

Roland Fleming

Justus Liebig University Giessen

Talk Session 38 – Lightness & Brightness

14.30 – 15.30 (Left Aula)

Figure/Ground belongingness asymmetry in Lightness perception

Elias Economou[1]; Sunčica Zdravković[2,4]; Anna Riga[3]; Predrag Nedimović[4]; Zoe Karaspyrou[1]; Angeliki Markouli[5]; Dejan Todorovic[4]; Alan Gilchrist[6]

[1] University of Crete, Lab of Experimental Psychology; [2] Laboratory for Experimental Psychology, Department of Psychology, Faculty of Philosophy, University of Novi Sad, Novi Sad, Serbia; [3] University of Malta; [4] Laboratory for Experimental Psychology, Faculty of Philosophy, University of Belgrade, Belgrade, Serbia; [5] Maastricht University; [6] Rutgers University, Newark

New computational scheme of lightness perception

Predrag Nedimović[1]; Elias Economou[2]; Anna Riga[3]; Angeliki Markouli[4]; Zoe Karaspyrou[2]; Sunčica Zdravković[1,5]; Dejan Todorovic[1]; Alan Gilchrist[6]

[1] University of Belgrade, Laboratory of Experimental Psychology; [2] University of Crete, Lab of Experimental Psychology; [3] University of Malta; [4] Maastricht University; [5] University of Novi Sad, Laboratory of Experimental Psychology; [6] Rutgers University, Newark

Modeling top-down and bottom-up neural processing in judgments of achromatic color

Michael Rudd

University of Nevada, Reno

Heterochromatic Brightness for the Full RGB-Cube

Shuchen Guan[1]; Robert Ennis; Karl Gegenfurtner

[1] Giessen University

Talk Session 39 – Depth & Stereo

14.30 – 15.30 (Atrium Maximum)

Shading patterns trace key 3D features of perceived shape

Celine Aubuchon[1]; Katja Doerschner[1]; Fulvio Domini[2]

[1] Justus-Liebig University Giessen, Germany; [2] Brown University

The Illusion of Absence: Smaller Obstructions of View and Binocular Viewing Create Stronger Impressions of Empty Spaces

Melika Miralem[1]; Subhankar Karmakar[1]; Rob van Lier[2]; Marcin Czub[3]; Vebjørn Ekroll[1]

[1] University of Bergen; [2] Radboud University; [3] University of Wrocław

Probing the maximum speed of top-down feedback for aiding visual recognition using random-dot stereograms

Li Zhaoping

Max-Planck-Institute for Biological Cybernetics & University of Tübingen

Experiments with a new version of Richard Gregory's Pandora's box, to measure the seen depth in flat pictures.

Priscilla Heard

University of the West of England (UWE Bristol)

Symposium Session 19 – Specificity and generalization of learning

14.30 – 15.30 (Lecture Hall HS19)

Stimulus variability during training breaks the "curse of specificity" in visual perceptual learning

Caspar Schwiedrzik

Ruhr-University Bochum

Effects of statistical regularities on representation and behavior

Rosanne Rademaker

ESI for Neuroscience in cooperation with the Max Planck Society

Evaluating alignment between humans and neural network representations in image-based learning tasks

Can Demircan

Helmholtz Munich

Symposium Session 20 – Is one test sufficient?

14.30 – 15.30 (Audimax)

About noise and inter-participant variability

Michael H. Herzog; Melissa Faggella; Simona Garobbio

École Polytechnique Fédérale de Lausanne (EPFL)

Individual differences in the speed of visual processing are stable across time but only moderately consistent across tasks

Anna-Lena Schubert

Johannes Gutenberg University Mainz

Individual differences in visual search and the fallacy of misplaced concreteness

Amelia Hunt[1]; Anna Nowakowska[2]; Alasdair Clarke[3]

[1] University of Aberdeen; [2] University of Leicester; [3] University of Essex

Correlated and uncorrelated individual differences in performance on a diverse set of psychophysical and oculomotor tasks

Jenny Bosten[1]; Patrick Goodbourn[2]; Gary Bargary[3]; Adam Lawrance-Owen[3]; Ruth Hogg[4]; Roeland Verhallen[3]; John Mollon[3]

[1] University of Sussex; [2] University of Melbourne; [3] University of Cambridge; [4] Queen's University Belfast

Robust individual differences in vision and hearing as dynamic brain states

Mark Wexler[1]; Pascal Mamassian[2]; Daniel Pressnitzer[2]

[1] CNRS, Université Paris Cité; [2] CNRS - École Normale Supérieure

Symposium Session 21 – Sensing the future: Multisensory, aesthetics and sustainable insights in material perception

14.30 – 15.30 (Lecture Hall P1)

Beyond Vision: The Multisensory Nature of Aesthetics

Claus-Christian Carbon

Department of General Psychology and Methodology, University of Bamberg, Bamberg, Germany; Research Group EPÆG (Ergonomics, Psychological Æsthetics, Gestalt), Bamberg, Germany; Bamberg Graduate School of Affective and Cognitive Sciences (BaGrACS), Bamberg, Germany

Multisensory aesthetic perception: A quantitative-qualitative study on Visuo-Tactile interactions with material textures

Marella Campagna; Alexander Pastukhov; Claus-Christian Carbon

University of Bamberg

Sustainable Product and Material Perception: A Multisensory Exploration of Denim Jeans

Lotta Straube; Alexander Pastukhov; Lisa Alexandra Gromer; Anna Heuschkel; Claus-Christian Carbon

Otto-Friedrich-University Bamberg

Recording the aesthetic responses and designer-visitor interactions during a design exhibition – an eye movement and motion tracking study

Pik Ki Ho; Mohamed Al Musleh

Heriot-Watt University

Poster Session 8

15.30 – 17.00 (Foyer)

2 **Task-relevance in response priming: flip-flopping visual dimensions**

Xin Ying Lee; Thomas Schmidt

RPTU Kaiserslautern-Landau

4 **Active object manipulation reduces material discrimination error in virtual reality**

Hideki Tamura[1]; Kevin Helgeland[2]; Ryu Nomachi[1]; Shigeki Nakauchi[1]; Tetsuto Minami[1]

[1] Toyohashi University of Technology; [2] Norwegian University of Science and Technology

6 **Motor-driven Serial Dependence: When Response Consistency Matters More than Shared Memory Encoding**

Jiao Wu[1]; Halid Oğuz Serçe[2]; Xuelian Zang[3]; Zhuanghua Shi[1]

[1] Ludwig-Maximilians-Universität München; [2] Bahçeşehir University; [3] Center for Cognition and Brain Disorders, Affiliated Hospital of Hangzhou Normal University

8 **Discrimination of Mooney faces in infancy**

Ryuto Takashima; Nanako Yamanaka; Nobu Shirai

Rikkyo University

10 **Effects of lighting direction and beam angle on the appearance of a craft**

Keito Sato; Hiromi Sato; Yoko Mizokami

Chiba University

12 **The development of a novel method to induce Aha! moments and predicting them from facial features**

Satoshi Shioiri; Koshi Akedo; Yasuhiro Hatori; Chiahuei Tseng

Tohoku University

14 **Beyond the Visible: Novice Engagement with Figurative and Abstract Art in Virtual Reality**

Itay Goetz; Jennifer Tesch; Claus-Christian Carbon

University of Bamberg, Bamberg, Bavaria, Germany

16 **Seeing the trend, changing the plate: Can social media poll results sway people's nutrition behavior?**

Lars Bläuer; Lea Laasner Vogt; Ester Reijnen

Zürcher Hochschule für Angewandte Wissenschaften (ZHAW)

18 **Depth and Interaction Modulate Color Aftereffects in Virtual Reality**

Aravind Battaje[1]; Nina Hanning[2]; Oliver Brock[1]; Martin Rolfs[2]

[1] Technische Universität Berlin; [2] Humboldt-Universität zu Berlin

38 **Repeated exposure to delay: insights into dual adaptation in the temporal domain in interception and target tracking**

Celine Honekamp[1]; Loes C. J. van Dam[1,2,3]

[1] Technical University of Darmstadt (TU Darmstadt), Department of Human Sciences, Institute for Psychology / Centre for Cognitive Science (DE); [2] Department of Psychology, University of Essex, Colchester (UK); [3] Technical University of Darmstadt, Germany; Centre for Mind, Brain and Behaviour (CMBB), Universities of Marburg, Giessen and Darmstadt, Germany

40 **Spatio-chromatic gradients enhance gloss and 3D shape perception**

Zoe R. Goll; Emily A-Izzeddin; Celine Aubuchon; Fatma Kilic; Filipp Schmidt; Roland Fleming

Justus-Liebig-Universität Gießen

42 **Sensory attenuation of visual stimuli differs as a function of luminance**

Leonie Jozwiak; Eckart Zimmermann

Heinrich Heine Universität Düsseldorf

44 **Structure of Individual Differences in Simultaneous Color Contrast: Factor Analytic Effects of Stimulus Complexity and Chromatic Tuning**

David H. Peterzell[1]; Massimo Gurioli[2]; Alessandro Farini[2]; Paolo A. Grasso[2]

[1] Fielding Graduate University; [2] University of Florence

46 **From Pixels to Perception: Psychophysical Validation of CAM16 Hue Estimation in Natural Scenes**

Semin Oh; Hamed Heidari-Gorji; Karl Gegenfurtner

Justus Liebig University Giessen

48 **Relative depth from monocular optical cues in a multi-focal display system**

Tarek A. Haila; Thomas S. A. Wallis

TU Darmstadt

50 **Perceived Sharpness in Peripheral Vision: Sharpness Overconstancy vs. Contextual Predictions**

Giulio Contemori; Irene Mezzacasa; Liam Bacchi; Marco Bertamini

University of Padua

52 **A role of mental imagery in amodal completion of complex objects: Settling a decades-long philosophical debate via The Perception Census**

Georgina Brighouse[1]; Reshanne Reeder[1]; Angelika Stefan[1]; Anil Seth[2]; Fiona Macpherson[3]

[1] University of Liverpool; [2] University of Sussex; [3] University of Glasgow

54 **Examining age-related differences in the association between field dependence and illusory self-motion (vection)**

Polina Andrievskaia[1]; Stefan Berti[2]; Behrang Keshavarz[1]

[1] KITE-Toronto Rehabilitation Institute, University Health Network & Toronto Metropolitan University; [2] Johannes Gutenberg-Universität Mainz

56 **Colour Constancy in Virtual Reality under Dual Illumination**

Raquel Gil Rodriguez[1]; Laysa Hedjar[1]; Natalia Pfening; Karl Gegenfurtner[1]

[1] Justus-Liebig-Universität Giessen

58 **Size and shape of contrast masking**

Aqsa Hassan; Heiko Schütt

Université du Luxembourg

60 **There is context and context – How variations in appearance and design-induced context shape face learning**

Christel Devue; Tom Lapadula; Kévin Nguy

University of Liège

62 **Controlled Synthetic Environments for Studying Mid-Level Vision in Artificial and Biological Systems**

Joshua Martin[1,2]; Thomas Wallis[1,2]

[1] Technical University of Darmstadt, Germany; [2] Centre for Mind, Brain and Behaviour (CMBB), Universities of Marburg, Giessen and Darmstadt, Germany

64 **Measuring the Inner Tube Effect**

Sunčica Zdravković[1,3]; Anna Riga[2]; Dejan Todorovic[3]; Ian M. Thornton[2]

[1] Faculty of Philosophy, University of Novi Sad; [2] University of Malta, Faculty of Media & Knowledge Science; [3] Faculty of Philosophy, University of Belgrade

66 **Comparing Visual Search for Real Materials in Physical and Virtual Reality Scenes**

Jiarui Yu; Hongyu Yang; Hanyang Xu; Fan Zhang

Xi'an Jiaotong-Liverpool University

68 **Low-dimensional space for the perception of natural textures**

Suguru Wakita; Isamu Motoyoshi

The University of Tokyo

70 **Sign language alters high-level visual regions involved in the perception of hands**

Larissa Kahler; Marisa Nordt

AG Developmental Cognitive Neuroscience, Child Neuropsychology Section, Department of Child and Adolescent Psychiatry, Psychosomatics, and Psychotherapy, Medical Faculty, RWTH Aachen University, Aachen, Germany

90 **Evidence for separate processes underpinning older adults' ability to perceive objects by touch.**

Kate Nevin; Alan O'Dowd; Fiona N. Newell

Trinity College Dublin

92 **My red, your purple: Sensory limitations on colour naming behaviour**

Anya Hurlbert[1]; John Barbur[2]; Ilgin Cebioglu[1]; Gabriele Jordan[1]

[1] Newcastle University; [2] City St Georges University of London

94 **Evaluating Perception-Action Dissociations From Three Behavioral Paradigms**

Kriti Bhatia[1]; Angela Osenberg[1]; Christian Loewenkamp[2]; Tanja Huber[1]; Frederic Goehringer[3]; Thomas Schenk[3]; Markus Janczyk[4]; Volker H. Franz[1]

[1] University of Tuebingen, Germany; [2] University of Hamburg; [3] Ludwig-Maximilians-University Munich; [4] University of Bremen

96 **Foraging for same-race and other-race faces.**

Nina Attard Montalto[1]; Sunčica Zdravković[2,3]; William G. Hayward[4]; Ian M. Thornton[1]

[1] University of Malta; [2] University of Novi Sad; [3] University of Belgrade; [4] Lingnan University

98 **Population receptive fields reveal distinct laminar microcircuits in human striate and extrastriate visual cortex**

Mayra Bittencourt[1]; Marcus Daghlian[2]; Remco Renken[1]; Frans W. Cornelissen[1]; Serge Dumoulin[2]

[1] University Medical Center Groningen; [2] Spinoza Center for Neuroimaging

100 **Peripheral Emotion Detection: Enhanced Sensitivity to Happy Faces and Attentional Modulation by Emotional Cues**

Ruijie Wu; Xue Zhang; Bo Wang

Institute of Biophysics, Chinese Academy of Sciences