Conference schedule

Keynotes

Auditorium Maximum (HS 33 - K.11.24)

Sunday (18.00 - 19.00)

> **On covert attention and presaccadic attention**
> *Marisa Carrasco*

Monday (9.00 - 10.00)

> **An update of the functional role of the dorsal visual stream**
> *Laure Pisella*

Monday (17.00 - 18.00)

> **Where (and when) next? How people view images of natural scenes**
> *Ben Tatler*

Tuesday (9.00 - 10.00)

> **Eye movement studies of reading in special populations**
> *Debra Titone*

Wednesday (9.00 - 10.00)

> **The roles of cortical areas in guiding eye movements during visual search**
> *James Bisley*

Thursday (17.30 - 18.30)

> **The Interaction between vision and eye movements**
> *Karl R. Gegenfurtner*

Talks

Monday, August 21st, 10.30 - 12.30

Symposium: Developmental eye tracking: Problems, solutions and applications of screen and head-mounted eye tracking

Room 1 (HS 14 - M.10.12)   Convenor: Tim J. Smith

10.30	Assessing gaze data quality in a large multi-centre autism developmental cohort
	Ana M. Portugal, Luke Mason & Tim J. Smith
10.50	Gazepath: An eye-tracking analysis tool that accounts for individual differences and data quality
	Daan van Renswoude, Maartje Raijmakers & Ingmar Visser
11.10	Quantifying the microdynamics of attention during parent-child interaction: practicalities and insights
	Nadia Neesgaard, Atsushi Senju & Tim J. Smith
11.30	Head-mounted eye-tracking for studying infants' attention during naturalistic activities
	Heather L. Kirkorian & Seung Heon Yoo
11.50	Infants' naturalistic attention dynamics show similar patterns at different spatio temporal scales
	Samuel V. Wass, Kaili Clackson, Stani Georgieva & Victoria Leong
12.10	Active Vision: What head-mounted eye tracking reveals about infants' active visual exploration
	Chen Yu

Thematic session: Saccade programming I

Room 2 (HS 32 - K.11.23)   Chair: Lynn Huestegge

10.30	Fixation-related brain activations: emotional valence interacts with high and low-level image properties
	Michał Kuniecki, Joanna Pilarczyk, Kinga Wołoszyn & Aleksandra Domagalik
10.50	Learning sequences of eye movements: linking motor processing and cognition in the brain
	Melanie R. Burke & Claudia C. Gonzalez
11.10	Oculomotor dominance in dual tasking and the influence of stimulus-response modality mappings
	Mareike A. Hoffmann, Aleks Pieczykolan & Lynn Huestegge
11.30	Using Saccade Averaging to study Decision Making signals
	Geoffrey Megardon & Petroc Sumner
11.50	The necessity to choose causes effects of expected value
	Christian Wolf, Anna Heuer, Anna Schubö & Alexander C. Schütz
12.10	SERIA – A model for antisaccades
	Eduardo A. Aponte, Dario Schoebi, Klaas E. Stephan & Jakob Heinzle

Special thematic session: Communication by gaze interaction I

Room 3 (HS 28 - I.13.71)   Chair: Andreas Bulling & Carlos H. Morimoto

10.30   Eye movement as material for interaction design (40 min)
         Hans Gellersen
11.10   "Here´s looking at you, kid." Does he see pupil size changes?
         Anke Huckauf, Christoph Strauch & Jan Ehlers
11.30   Gaze-contingent Games for Neurocognitive Therapy: More than Meets the Eye?
         Leanne Chukoskie, Jacqueline Nguyen & Jeanne Townsend
11.50   Applicability of smooth-pursuit based gaze interaction for elderly users
         Sarah-Christin Freytag, Stefan Ruff & Antje C. Venjakob
12.10   Behavioral Analysis of Smooth Pursuit Eye Movements for Interaction
         Argenis Ramirez-Gomez & Hans Gellersen

Thematic session: Reading: Neural basis and binocular coordination

Room 4 (HS 26 - I.13.65)   Chair: Hazel I. Blythe

10.30   Saccadic eye movements and neural activity associated with letter naming speed
         task manipulations
         Noor Z. Al Dahhan, Donald C. Brien, John R. Kirby & Douglas P. Munoz
10.50   The effects of cloze probability and semantic congruency on brain responses during
         natural reading: A fixation-related fMRI study
         Sarah Schuster, Nicole A. Himmelstoß, Stefan Hawelka, Fabio Richlan,
         Martin Kronbichler & Florian Hutzler
11.10   Reading fluency is associated with fixation related brain responses to reading
         comprehension in 12-year old typically reading children – findings from
         co- registered eye-tracking and EEG study
         Otto Loberg, Jarkko Hautala, Jarmo A. Hämäläinen & Paavo H.T. Leppänen
11.30   Changes in overall vergence demands affect binocular coordination during
         reading
         Stephanie Jainta
11.50   Binocular advantages for parafoveal processing in reading
         Hazel I. Blythe, Mirela Nikolova, Stephanie Jainta & Simon P. Liversedge
12.10   A new understanding of vergence within fixations, based on differences in the
         reading of Chinese and English
         Richard Shillcock, Yi-ting Hsiao, Mateo Obregón, Hamutal Kreiner, Matthew A. J.
         Roberts & Scott McDonald

Monday, August 21st, 13.30 - 15.30

Symposium: Using eye-tracking and pupillometry to study rhythmic processing in music and dance

Room 1 (HS 14 - M.10.12)   Convenors: Elke B. Lange & Lauren K. Fink

13.30	Eye Can't Dance; Entraining Saccadic Timing to Musical and Visual Beats *Jonathan P. Batten & Tim J. Smith*
13.50	Pupil dilation indexes the metrical hierarchy of unattended rhythmic violations *Atser Damsma & Hedderik van Rijn*
14.10	Predicting attention to auditory rhythms using a linear oscillator model and pupillometry *Lauren K. Fink, Joy J. Geng, Brian K. Hurley & Petr Janata*
14.30	The Eye-Time Span in Music Reading: Local Effects of Stimulus Complexity on "Looking Ahead" *Erkki Huovinen, Anna-Kaisa Ylitalo & Marjaana Puurtinen*
14.50	Guided eye movements made in response to dance *Matthew Woolhouse*
15.10	Eye-movement control and pupillary responses to complex auditory and visual stimuli (Panel discussion)

Thematic session: Transsaccadic memory and integration

Room 2 (HS 32 - K.11.23)   Chair: Artem Belopolsky

13.30	Beyond the magic number four: Evidence for high-capacity, trans-saccadic, fragile memory and pre-attentive remapping *Paul Zerr, Surya Gayet, Kees Mulder, Ilja Sligte & Stefan Van der Stigchel*
13.50	Unifying the visual world across an eye-movement: Transsaccadic integration is unaffected by saccade landing position *Martijn Jan Schut, Nathan Van der Stoep & Stefan Van der Stigchel*
14.10	How quickly does the eye movement system register changes across saccades? *Jonathan van Leeuwen & Artem V. Belopolsky*
14.30	Trans-saccadic feature integration is contrast dependent *Lukasz Grzeczkowski, Heiner Deubel & Martin Szinte*
14.50	Task-relevant objects compete for attention across saccades *Christian H. Poth & Werner X. Schneider*
15.10	Remapping of the global effect across saccades *Kiki Arkesteijn, Jeroen BJ Smeets, Mieke Donk & Artem V. Belopolsky*

Special thematic session: Communication by gaze interaction II

Room 3 (HS 28 - I.13.71)   Chair: John P. Hansen & Roman Bednarik

13.30   Gaze interaction using low-resolution images at 5 FPS
Carlos E.L. Elmadjian, Antonio Diaz-Tula, Fernando O. Aluani & Carlos H. Morimoto
13.50   PSOVIS: An interactive tool for extracting post-saccadic oscillations from eye movement data
Diako Mardanbegi, Thomas Wilcockson, Baiqiang Xia, Hans Gellersen, Trevor Crawford & Peter Sawyer
14.10   GazeBall: Leveraging Natural Gaze Behavior for Continuous Re-calibration in Gameplay
Argenis Ramirez-Gomez & Hans Gellersen
14.30   Implicit Events in Virtual Reality: A New Concept for Eye-Based Interaction?
Teresa Hirzle, Jan Ehlers, Anke Huckauf & Enrico Rukzio
14.50   COGAIN Association Meeting (40 min)

Thematic session: Reading: Spatially distributed processing

Room 4 (HS 26 - I.13.65)   Chair: Sarah Risse

13.30   Two routes of parafoveal processing during reading: Eye movements suggest benefits and costs
Sarah Risse & Martin R. Vasilev
13.50   Late interference by parafoveal difficulty in reading
Stefan Seelig & Sarah Risse
14.10   Analyzing Sequential Dependencies between Fixation Durations with Linked Linear Mixed Models
Reinhold Kliegl, Sven Hohenstein & Hannes Matuschek
14.30   What are the costs of degraded parafoveal previews during silent reading?
Bernhard Angele, Martin R. Vasilev, Timothy J. Slattery & Julie A. Kirkby
14.50   Effects of font type on parafoveal letter identification in Russian
Svetlana Alexeeva, Aleksandra Dobrego & Alena Konina
15.10   Orthographic, Morphological, and Semantic Parafoveal Processing in Arabic Reading: Evidence from the Boundary Paradigm
Ehab W. Hermena, Eida J. Juma, Ascensión Pagán, Maryam AlJassmi, Mercedes Sheen & Timothy R. Jordan

Tuesday, August 22nd, 10.30 - 12.30

Symposium: Longitudinal research on eye movements in developing readers: What have we learned so far?

Room 1 (HS 14 - M.10.12)   Convenors: Johannes Meixner & Christian Vorstius

10.30   The development of eye movement control in reading: where do the eyes go?
          Ralph Radach, Christian Vorstius & Christopher J. Lonigan
10.50   Early development of oculomotor control in reading: a longitudinal eye tracking
          study from preschool age to fifth grade
          Thomas Günther, Josefine Horbach, Wolfgang Scharke & Ralph Radach
11.10   Foveal Processing Difficulty Modulates Perceptual Span Early in Reading
          Development
          Johannes M. Meixner & Jochen Laubrock
11.30   Comprehension in silent and oral sentence reading: Longitudinal evidence from
          developing readers
          Christian Vorstius, Young-Suk Grace Kim & Ralph Radach
11.50   The development of foveal eye movements in primary school: Findings from the
          Berlin DevTrack study
          Sascha Schroeder, Simon Tiffin-Richards & Sarah Eilers
12.10   General discussion

Thematic session: Clinical Research I

Room 2 (HS 32 - K.11.23)   Chair: Andreas Sprenger

10.30	Implicit and explicit oculo-motor learning in Parkinson's disease and spinocerebellar ataxia *Andreas Sprenger, Annika Lasrich & Christoph Helmchen*
10.50	Visual exploration of emotional faces in schizophrenia using masks from the Japanese Noh theatre *Teresa Fasshauer, Andreas Sprenger, Karen Silling, Christopher Zeiser, Johanna Elisa Silberg, Anne Vosseler et al.*
11.10	Visual Behavior on Natural Static Images in Patients with Retinitis Pigmentosa *Ricardo R. Gameiro, Kristin Jünemann, Anika Wolff, Anne Herbik, Peter König & Michael Hoffmann*
11.30	Quantifying Traumatic Brain Injury impairments in scanning patterns of complex scenes *Nitzan Guy, Oryah Lancry & Yoni Pertzov*
11.50	Smooth pursuit disturbances in schizophrenia during free visual exploration of dynamic natural scenes *Johanna Elisa Silberg, Ioannis Agtzidis, Mikhail Startsev, Teresa Fasshauer, Karen Silling, Andreas Sprenger et al.*
~~12.10~~	~~Eye tracking live social interaction to capture gaze behavior of subclinical autism and social anxiety~~ ~~*Roy S. Hessels, Gijs A. Holleman, Tim H. W. Cornelissen, Ignace T. C. Hooge & Chantal Kemner*~~ → **moved to Clinical Research II (Thursday, 15.50)**
12.10	Visual field diagnostics with eye tracking: development and neuropsychological testing of a new diagnostic tool *Michael Christian Leitner, Constanze Haslacher, Stefan Hawelka, Lorenzo Vignali, Sarah Schuster & Florian Hutzler*

Thematic session: Visual interfaces, robotics and virtual reality

Room 3 (HS 28 - I.13.71)   Chair: Lucas Paletta

10.30	Smooth pursuit based mouse replacement: the GazeEverywhere system *Simon Schenk, Marc Dreiser, Philipp Tiefenbacher, Gerhard Rigoll & Michael Dorr*
10.50	Fixation-Related Potentials as a Measure for Cognitive Demand in Visual Tasks on Single Trial Level *Dennis Wobrock, Andrea Finke, Shirley Mey, Dirk Koester, Thomas Schack & Helge Ritter*
~~11.10~~	~~Gaze Contingent Control of Vergence, Yaw and Pitch of Robotic Eyes for Immersive Telepresence~~ ~~*Remi Cambuzat, Frédéric Elisei & Gérard Bailly*~~ → **moved to poster session II-93**
11.30	Measurement of Situation Awareness in Collaborative Robotics Using Eye Movement Features *Lucas Paletta, Cornelia Murko & Amir Dini*
11.50	Siamese Convolutional Neural Networks for Appearance-Based Gaze Estimation *Helen Zhou, David Mayo & Scott Greenwald*
12.10	Joint visual working memory through implicit collaboration *Edwin S. Dalmaijer, Diederick C. Niehorster, Kenneth Holmqvist & Masud Husain*

Thematic session: Scanpaths

Room 4 (HS 26 - I.13.65)   Chair: Ralf Engbert

10.30   Disentangling fixation duration and saccadic planning using
         gaze dependent guided viewing
         Benedikt V. Ehinger, Lilli Kaufhold & Peter König

10.50   The early central fixation bias in scene viewing: Experimental manipulation and
         modeling
         *Lars O. M. Rothkegel, Hans A. Trukenbrod, Heiko H. Schütt, Felix A. Wichmann & Ralf
         Engbert*

11.10   Likelihood-based Parameter Estimation and Comparison of Dynamical Eye
         Movement Models
         *Heiko H. Schütt, Lars O. M. Rothkegel, Hans A. Trukenbrod, Sebastian Reich, Felix A.
         Wichmann & Ralf Engbert*

11.30   Refixation strategies for memory encoding in free viewing
         Radha N. Meghanathan, Andrey R. Nikolaev & Cees van Leeuwen

11.50   Modelling saccade directions with circular distributions
         Ingmar Visser, Maartje Raijmakers & Daan van Renswoude

12.10   Considering, rather than restricting eye movement characteristics in Fixation
         Related Potentials: an application of the rERP framework
         Tim Cornelissen, Jona Sassenhagen, Dejan Draschkow & Melissa Le-Hoa Vo

Tuesday, August 22nd, 13.30 - 15.30

Symposium: Eye movements during the reading of narrative and poetic text

Room 1 (HS 14 - M.10.12)   Convenors: Arthur M. Jacobs & Jana Lüdtke

13.30   Weary with toil, I haste me to my bed: Eye tracking Shakespeare sonnet

Shuwei Xue, Daniela Giordano, Jana Lüdtke, Renata Gambino, Grazia Pulvirenti, Concetto Spampinato & Arthur M. Jacobs

13.50   Individual differences in eye-movement patterns in response to literary language

Emiel van den Hoven, Franziska Hartung, Michael Burke & Roel M. Willems

14.10   Exploring meaning construction in readers of English-language Haiku: An eye-tracking study

Franziska Günther, Hermann J. Müller, Thomas Geyer, Jim Kacian & Stella Pierides

14.30   Immersion, Emotion and Eye Movements in Self-paced Reading of passages from Harry Potter

Lea Musiolek, Jana Lüdtke & Arthur M. Jacobs

~~14.50~~   ~~Using eye movements to study comprehension monitoring in beginning readers~~

~~Young-Suk Kim, Christian Vorstius & Ralph Radach~~

15.10   General discussion

Thematic session: Visual search

Room 2 (HS 32 - K.11.23)   Chair: Rebecca Foerster

13.30   Your Attention seeks Confirmation: Visual confirmation bias overshadows prevalence effects in visual attention

Stephen C. Walenchok, Stephen D. Goldinger & Michael C. Hout

13.50   Humans do not make efficient eye movements during visual search

Anna Nowakowska, Alasdair D.F. Clarke & Amelia R. Hunt

14.10   Time course of brain activity during unrestricted visual search: Co-registering EEG and Eye Movements

Juan E. Kamienkowski, Alexander Varatharajah, Mariano Sigman, Rodrigo Quian Quiroga & Matias J. Ison

14.30   Visual working-memory biases attention: Evidence for involuntarily object-based top-down control by search-irrelevant features

Rebecca M. Foerster & Werner X. Schneider

14.50   Eye Movements and the Label Feedback Effect: Speaking Modulates Visual Search, But Probably Not Visual Perception

Katherine P. Hebert, Stephen C. Walenchok & Stephen D. Goldinger

15.10   Shorter fixation durations in visual search after 24 hours of total sleep deprivation

Christian Mühl & Daniel Aeschbach

Thematic session: Interactive and group eye-tracking

Room 3 (HS 28 - I.13.71)   Chair: Edwin Dalmaijer

13.30	Group Eye Tracking (GET) Applications in Gaming and Decision Making *Cengiz Acarturk, Mani Tajaddini & Ozkan Kilic*
13.50	Mass measurement of eye-movements under the dome - proof of concept studies *Maksymilian Bielecki, Katarzyna Potęga vel Żabik, Michał Gochna & Jacek Mikulski*
14.10	Using multiple gaze trackers and combining the results *Miika T. Toivanen & Markku Hannula*
14.30	Joint Attention on the Cartesian Plain: A Dual Eye-Tracking Study *Anna Shvarts & Anatoly Krichevets*
14.50	How Teachers See It: Using Mobile Eyetracking to Explore Professional Vision and Teacher-Student Interactions in the Classroom *Irene T. Skuballa & Antje von Suchodoletz*
15.10	Gaze-assisted remote communication between teacher and students *Kari-Jouko Räihä, Oleg Spakov, Howell Istance & Diederick C. Niehorster*

Thematic session: Scene perception

Room 4 (HS 26 - I.13.65)   Chair: Antje Nuthmann

13.30	The relative importance of foveal vision in visual search in 3D dynamic scenes *Adam C. Clayden, Robert B. Fisher*
13.50	The developmental trajectory of eye movements to object-scene inconsistencies and their relation to language abilities *Sabine Öhlschläger & Melissa Le-Hoa Vo*
14.10	Dynamic recipes for oculomotor selection of objects in realistic scenes *Sara Spotorno & Ben Tatler*
14.30	Individual Smooth Pursuit Strategies in Dynamic Natural Scene Perception *Ioannis Agtzidis, Mikhail Startsev & Michael Dorr*
14.50	The bimodality of saccade duration distribution *Hélène Devillez, Randall C. O'Reilly & Tim Curran*
15.10	Using sound to guide gaze in a 'split-screen' film: Mike Figgis' Timecode as a found experiment *Tim J. Smith, Jonathan P. Batten & Jennifer X. Haensel*

Wednesday, August 23rd, 10.30 - 12.30

Symposium: The role of eye movements in self-motion perception

Room 1 (HS 14 - M.10.12)   Convenors: Paul R. MacNeilage & Jonathan S. Matthis

10.30   Gaze and the visual control of foot placement when walking over real-world rough
            terrain
            Jonathan S. Matthis & Mary Hayhoe
10.50   Eye movement cues to self-motion perception
            Ivar Clemens, Luc Selen, Antonella Pomante, Paul MacNeilage & Pieter Medendorp
11.10   Visual-vestibular conflict detection depends on fixation
            Isabelle Garzorz & Paul MacNeilage
11.30   Heading representations in primates are compressed by saccades
            Frank Bremmer, Jan Churan & Markus Lappe
11.50   Dynamics of eye movements during visual path integration in primates
            Kaushik J. Lakshminarasimhan, Xaq Pitkow & Dora Angelaki
12.10   General discussion

Thematic session: Attention and memory

Room 2 (HS 32 - K.11.23)   Chair: Daniel Smith

10.30   Attentional selection in averaging saccades
            Luca Wollenberg, Heiner Deubel & Martin Szinte
10.50   Vertical gaze paralysis is associated deficits of attention and memory: Evidence from
            Progressive Supranuclear Palsy
            Daniel Smith & Neil Archibald
11.10   Nasal-temporal differences on cueing effect: how cue eccentricity and visual
            field affect the orienting of visuo-spatial attention
            Soazig Casteau & Daniel T. Smith
11.30   Presaccadic attention analyzed with a novel dynamic noise paradigm
            Nina Maria Hanning & Heiner Deubel
11.50   Detecting concealed memory via eye movements
            Oryah Lancry, Tal Nahari, Gershon Ben-Shakhar & Yoni Pertzov
12.10   Spoken words help in retreiving information from visual working memory
            Seema Gorur Prasad, Pratik Bhandari & Ramesh Mishra

Thematic session: Innovative methods and technology

Room 3 (HS 28 - I.13.71)   Chair: Catrin Hasse

10.30	Improving computerized adaptive testing using eye tracking measures
	Benedict C.O.F. Fehringer
10.50	Eye movement indicators for successful failure detection
	Catrin Hasse & Carmen Bruder
11.10	Individual objective versus subjective fixation disparity as a function of prism load
	Wolfgang Jaschinski
11.30	3D Eye Tracking in Monocular and Binocular Conditions
	Xi Wang, Marianne Maertens & Marc Alexa
11.50	Using Priors to Compensate Geometrical Problems in Head-Mounted Eye Trackers
	Fabricio B. Narcizo, Zaheer Ahmed & Dan W. Hansen
12.10	The development and validation of a high-speed stereoscopic eye tracker
	Annemiek D. Barsingerhorn, Nienke Boonstra & Jeroen Goossens

Thematic session: Reading: Predictive and high level processing

Room 4 (HS 26 - I.13.65)   Chair: Victoria McGowan

10.30	Beyond cloze probability: Semantic and syntactic preview effects in reading
	Aaron Veldre & Sally Andrews
10.50	Are older readers "riskier"? Examining adult age differences in reading
	Victoria A. McGowan, Sarah J. White, Kayleigh L. Warrington & Kevin B. Paterson
11.10	Benchmarking n-gram, topics and recurrent neural network models in predicting word cloze completion and eye movement variance
	Markus J. Hofmann, Chris Biemann, Steffen Remus & Ralph Radach
11.30	Predictive processing is key for reading: An evaluation of a visual information optimization model with eye movements in reading
	Benjamin Gagl & Christian Fiebach
11.50	The processing of bounded and unbounded negated representations during reading: An eye-movement investigation
	Lewis T. Jayes, Hazel I. Blythe, Kevin B. Paterson & Simon P. Liversedge
12.10	Using eye tracking to "figure out" how verb-particle constructions are understood during L1 and L2 reading
	Mehrgol Tiv, Laura Gonnerman, Veronica Whitford, Deanna Friesen, Debra Jared & Debra Titone

Wednesday, August 23rd, 13.30 - 15.30

Symposium: Microsaccades: Modeling, Analysis, and Synthesis

Room 1 (HS 14 - M.10.12)   Convenors: Andrew T. Duchowski, Krzysztof Krejtz & Izabela Krejtz

13.30	Dynamic Modeling of Fixational Eye Movements: The Role of Neural Delays
	Ralf Engbert, Carl J. J. Hermann & Ralf Metzler
13.50	Saliency and Surprise Revealed by Microsaccades
	Yoram S. Bonneh, Uri Polat, Misha Tsodyks & Yael Adini
14.10	Evaluating Microsaccades for Cognitive Load Measurement
	Krzysztof Krejtz, Izabela Krejtz, Andrew T. Duchowski, Cezary Biele & Anna Niedzielska
14.30	Microsaccades of ADHD Patients during Facial Affect Recognition
	Nina Gehrer, Michael Schönenberg, Krzysztof Krejtz & Andrew T. Duchowski
14.50	Microsaccades during Visual Search of Gaussian Terrain
	Justyna Żurawska & Andrew T. Duchowski
15.10	Perception of Synthesized Microsaccadic Jitter
	Andrew T. Duchowski, Sophie Jörg & Krzysztof Krejtz

Thematic session: Saccade control and fixational activity

Room 2 (HS 32 - K.11.23)   Chair: Stefan van der Stigchel

13.30	Rapid updating of spatial working memory across saccades
	Artem V. Belopolsky, Paul J. Boon, Silvia Zeni & Jan Theeuwes
13.50	Perceptual continuity across saccades: evidence for rapid spatiotopic updating
	Jasper Hajo Fabius, Alessio Fracasso & Stefan Van der Stigchel
14.10	Spatiotemporal dynamics and topological network characteristics of the fixation-related EEG lambda activity
	Andrey R. Nikolaev, Marcello Giannini, Hossein Seidkhani, Radha Nila Meghanathan, David Alexander & Cees van Leeuwen
14.30	Microsaccade features and microsaccade-related alpha-synchronization across the life span
	Ying Gao & Bernhard Sabel
14.50	Unifying micro and macro-saccades with a space dependent, stochastic threshold
	Geoffrey Megardon & Aline Bompas
15.10	The relationship between visual sampling and hippocampal activity in younger and older adults
	Zhong-Xu Liu, Kelly Shen, Rosanna K. Olsen & Jennifer D. Ryan

Thematic session: Eye-tracking in the educational context

Room 3 (HS 28 - I.13.71)   Chair: Halszka Jarodzka

13.30   A tool to assist teachers to determine if learners apply the divisibility rules correctly
        Pieter Potgieter & Pieter Blignaut
13.50   Using Eye-Tracking to Measure Strategies of Comparing the Numerical Values of
        Fraction
        Andreas Obersteiner
14.10   Adapting instruction to learners' gaze behavior: Does an adaptive multimedia system
        support learning?
        Anne Schueler, Marie-Christin Krebs, Thérése F. Eder & Katharina Scheiter
14.30   The effects of conceptual and perceptual difficulty on processing and engagement in
        text during reading and learning
        Alexander Strukelj, Marcus Nyström & Kenneth Holmqvist
14.50   How are processing strategies reflected in the eyes? Triangulating results from self-
        reports and eye tracking
        Leen Catrysse, David Gijbels & Vincent Donche
15.10   Teachers' perceptions and interpretations of classrooms in the digital age
        Halszka Jarodzka, Liesbeth Meijer & Sharisse Van Driel

Thematic session: Reading: Individual differences

Room 4 (HS 26 - I.13.65)   Chair: Mallorie Leinenger

13.30   Effects of individual language skills on phonological coding during skilled reading:
        Evidence from survival analyses of eye movement data
        Mallorie Leinenger
13.50   Individual differences and context properties affect word learning
        Victor Kuperman & Bryor Snefjella
14.10   Using Latent-Growth-Curve-Models to Examine Children's Eye-movements
        During Reading as Individual Difference Variables in Development
        Christopher J. Lonigan, Ralph Radach & Christian Vorstius
~~14.30~~   ~~CompLex: An eye-movement database of individual differences in the~~
        ~~recognition of morphologically complex words~~
        ~~*Daniel Schmidtke & Victor Kuperman*~~
14.50   An eye movement study of children's pronoun processing: Individual differences
        in the detection of incongruence during reading
        Sarah Eilers, Simon P. Tiffin-Richards & Sascha Schroeder
15.10   Oculomotor control in visual tasks predicts reading skill regardless of scanning
        direction
        Regina Henry, Julie A. Van Dyke & Victor Kuperman

Wednesday, August 23rd, 17.00 - 19.00

Symposium: Insights from Eye Movement Research with Immersive Technologies

Room 1 (HS 14 - M.10.12)   Convenors: Dejan Draschkow

~~17.00~~	~~Using Virtual Reality to Assess Ethical Decisions in Road Traffic Scenarios: Applicability of Value of Life Based Models and Influences of Time Pressure~~
	~~Gordon Pipa~~
17.00	Virtual reality for the study of visually guided action
	Gabriel Diaz
17.20	A Virtual reality setup for intensive care unit patients while applying controlled visual and acoustic stimulation
	Stephan Gerber
17.40	The influence of contextual rules on object interactions and spatial representations: a virtual reality investigation
	Dejan Draschkow & Melissa L.-H. Vo
18.00	Advances in the research of anxiety and anxiety disorders using virtual reality
	Bastian Söhnchen, Mathias Müller & Paul Pauli
~~18.20~~	~~Research on cognitive architecture of human motor performance and its application in VR environments~~
	~~Thomas Schack & Kai Essig~~
18.20	A fresh look at visuomotor interception of moving targets: inconsistencies, limitations, and persistent questions
	Constantin Rothkopf & Huaiyong Zhao
18.40	Using closed-loop-VR to probe human visuomotor control
	Constantin A. Rothkopf, Huaiyong Zhao, Julia Frankenstein & David Hoppe

Thematic session: Pupillometry

Room 2 (HS 32 - K.11.23)   Chair: Sebastiaan Mathôt

17.00	What's good about big pupils?
	Sebastiaan Mathôt & Yavor Ivanov
17.20	Attention in visual periphery: Evidence from pupillometry
	Andreas Brocher, Raphael Harbecke & Stefanie Hüttermann
17.40	Pupil Sizes Scale with Attentional Load and Task Experience in a Multiple Object Tracking Task
	Basil Wahn, Daniel P. Ferris, W. David Hairston & Peter König
18.00	Raven revisited: Fixation-related EEG alpha frequency band power and pupil dilation unravel fluctuations in cognitive load during task performance
	Christian Scharinger & Peter Gerjets
18.20	Towards pupil-assisted target selection in natural environments
	Christoph Strauch, Greiter Lukas & Anke Huckauf
18.40	CHAP: An Open Source Software for Processing and Analyzing Pupillometry Data
	Ronen Hershman, Noga Cohen & Avishai Henik

Thematic session: Learning and cognitive information processing

Room 3 (HS 28 - I.13.71)   Chair: Aline Godfroid

17.00	The use of eye tracker in the discrimination of linguistic and image processing demands in a picture-identification task *Letícia M. Sicuro Corrêa, Elisângela N. Teixeira & Erica dos Santos Rodrigues*
17.20	Using eye movements to measure conscious and unconscious linguistic knowledge *Aline Godfroid, Jieun Ahn, Patrick Rebuschat & Zoltan Dienes*
17.40	Animacy and children's online processing of restrictive relative clauses *Ross G. Macdonald, Ludovica Serratrice, Silke Brandt, Anna Theakston & Elena Lieven*
18.00	Can the Eye-Mind Connection Be Broken in the Visual World Paradigm? *Anastasiya Lopukhina & Anna Laurinavichyute*
18.20	Words and Images: Information Distribution in Comic Panels *Clare Kirtley, Benjamin W. Tatler, Christopher Murray & Phillip B. Vaughan*
18.40	Eye-movements in wordless picture stories: Search for comprehension during bridging inference generation *John P. Hutson, Joseph P. Magliano & Lester C. Loschky*

Thematic session: Reading: Corpus analysis and text processing

Room 4 (HS 26 - I.13.65)   Chair: Johanna Kaakinen

17.00	Russian Sentence Corpus *Anna Laurinavichyute, Irina Sekerina, Kristine Bagdasaryan & Svetlana Alexeev*
17.20	PoCoCo: An eye-movement corpus of graphic novel reading *Jochen Laubrock, Sven Hohenstein & Eike Richter*
17.40	A Crosslinguistic Investigation of Eye Movements During Reading *Denis Drieghe, Jukka Hyönä, Xin Li, Guoli Yan, Xuejun Bai & Simon P. Liversedge*
18.00	Fluctuations in cognitive engagement during reading: Evidence from concurrent recordings of postural and eye movements *Johanna K. Kaakinen, Ugo Ballenghein, Geoffrey Tissier & Thierry Baccino*
18.20	Auditory distraction by meaningful background speech during reading *Martin R. Vasilev, Simon P. Liversedge, Daniel Rowan, Julie A. Kirkby & Bernhard Angele*
18.40	Eye-tracking data analysis using hidden semi-Markovian models to identify and characterize reading strategies *Brice Olivier, Jean-Baptiste Durand, Anne Guérin-Dugué & Marianne Clausel*

Thursday, August 24th, 9.00 - 11.00

Symposium: Interpreting and Using Visualizations of Eye Movements to Improve Task Performance and Learning

Room 1 (HS 14 - M.10.12)   Convenors: Margot van Wermeskerken et al.

9.00	Searching with and against each other *Tim Cornelissen, Diederick C. Niehorster, Ignace T.C. Hooge & Kenneth Holmqvist*
9.20	Eye see what you are doing: Inferring task performance from eye movement data *Margot van Wermeskerken, Damien Litchfield & Tamara van Gog*
9.40	Gaze guidance in number-line tasks *Damien Litchfield, Thomas Gallagher-Mitchell & Victoria Simms*
10.00	Look where eye looked: Eye movement modeling examples enhance learning to solve geometry problems *Tim van Marlen, Margot van Wermeskerken, Halszka Jarodzka & Tamara van Gog*
10.20	Using eye movement modeling examples as an instructional tool for learning with multimedia: The influence of model and learner characteristics *Marie-Christin Krebs, Anne Schüler & Katharina Scheiter*
10.40	If I showed you where you looked, you still wouldn't remember *Ellen M. Kok, Avi M. Aizenman, Melissa L.-H Võ & Jeremy M. Wolfe*

Thematic session: Oculomotor event detection

Room 2 (HS 32 - K.11.23)   Chair: Ignace Hooge

9.00	Is human classification a gold standard in fixation detection? *Ignace T.C. Hooge, Diederick C. Niehorster, Marcus Nyström, Richard Andersson & Roy S. Hessels*
9.20	Looking sparse? Model-based saccade detection on the position profile *David J. Mack & Federico Wadehn*
9.40	Towards Low-Latency Blink Detection Using Event-Based Vision Sensors *Florian Hofmann, Arren Glover, Thies Pfeiffer, Chiara Bartolozzi & Elisabetta Chicca*
10.00	Topology for gaze analyses *Oliver Hein*
10.20	End-to-end eye-movement event detection using deep neural networks *Raimondas Zemblys, Diederick C. Niehorster & Kenneth Holmqvist*
10.40	Comparing Data Evaluation Task Effects on Data Driven Event Detection Models *Michael Haass, Matzen Laura & Kristin Divis*

Thematic session: Usability and web-based interface design

Room 3 (HS 28 - I.13.71)   Chair: Gemma Fitzsimmons

9.00	Fake sites through the customers' eyes *Simone Benedetto & Christian Caldato*
9.20	Children's attention management on commercial websites: Effects of task type and advert prominence *Nils Holmberg*
9.40	Reading for Comprehension versus Skim Reading on the Web: The Impact of Hyperlinks and Navigation *Gemma Fitzsimmons, Mark J. Weal & Denis Drieghe*
10.00	Learning 3D layout from 2D views: insights from eye movement behaviour during multiplex screen viewing *Kenneth C. Scott-Brown, Matthew J. Stainer & Benjamin W. Tatler*
10.20	Visual attention and neural co-activation reflect conscious processing during prosthetic hand use, but only during object manipulations *Johnny V. V. Parr, Neil Harrison, Sam Vine, Mark Wilson & Greg Wood*

Thematic session: Reading: Basic oculomotor control

Room 4 (HS 26 - I.13.65)   Chair: Françoise Vitu

9.00	Oculomotor adaptations when reading mirror-reversed texts *André Krügel, Johan Chandra & Ralf Engbert*
9.20	Eye Movement Control for Horizontal and Vertical English Text *Sha Li, Maryam A. AlJassmi, Kayleigh L. Warrington, Sarah J. White, Jingxin Wang, Mercedes Sheen et al.*
9.40	How MASC, a Model of Attention in the Superior Colliculus, pretends to read despite being completely illiterate! *Françoise Vitu, Hossein A. Gregory & J. Zelinsky*
10.00	Eye-Movement Evidence for Object-Based Attention in Reading *Yanping Liu & Erik D. Reichle*
10.20	The impact of forced fixations on word recognition: Dissociation of oculomotor behavior and linguistic processing *E. R. Schotter, Mallorie Leinenger & Titus von der Malsburg*
10.40	Word demarcation in reading of newly learned strings: There's something special about spaces *Mengsi Wang, Hazel I. Blythe & Simon P. Liversedge*

Thursday, August 24th, 11.30 - 13.30

Symposium: Pharmacological Influences on Voluntary Oculomotor Control

Room 1 (HS 14 – M.10.12)   Convenor: Jakob Heinzle & Ulrich Ettinger

11.30	Effects of NMDA antagonists on voluntary control of eye movements in non-human primates
	Pierre Pouget & Marcus Missal
11.50	Effects of Ketamine on Brain Function during Smooth Pursuit and Antisaccade Eye Movements in Healthy Humans
	Maria Steffens, Anna Kasparbauer, Inga Meyhöfer, René Hurlemann & Ulrich Ettinger
12.10	Neuropharmacology of cognitive control: local manipulations of the dopaminergic and cholinergic system in monkey prefrontal cortex during antisaccade performance
	Susheel Vijayraghavan, Alex James Major & Stefan Everling
12.30	Model based analysis of dopaminergic and cholinergic neuromodulation on voluntary control of eye movements in humans
	Jakob Heinzle, Dario Schöbi, Klaas Enno Stephan & Eduardo A. Aponte
12.50	Cholinergic and Dopaminergic Influences on Eye Movements in Humans
	Ulrich Ettinger, Anna Kasparbauer, Maria Steffens, Inga Meyhöfer, Eliana Faiola & Nadine Petrovsky
13.10	General discussion

Thematic session: Saccade programming II

Room 2 (HS 32 - K.11.23)   Chair: Hans Trukenbrod

11.30	Dissociating automatic capture, to individual stimuli or the global effect location, from intentional saccade targeting
	David Aagten-Murphy & Paul M. Bays
11.50	Asymmetries of the saccadic system: A tool to quantify eye dominance strength
	Jérôme Tagu, Karine Doré-Mazars, Christelle Lemoine-Lardennois, Judith Vergne & Dorine Vergilino-Perez
12.10	Saccade countermanding reflects automatic inhibition as well as top-down cognitive control
	Aline Bompas, Annie Campbell & Petroc Sumner
12.30	Oculomotor gap effect and antisaccade performance in the common marmoset
	Kevin Johnston & Stefan Everling
12.50	Control of fixation durations in a visually guided task
	Hans A. Trukenbrod & Jan Grenzebach
13.10	Adaptation of post-saccadic drift in reflexive saccades does not transfer to voluntary saccades
	Giulia Manca & Heiner Deubel

Thematic session: Applied visual cognition

Room 3 (HS 28 - I.13.71)   Chair: Andrew K. Mackenzie

11.30	Eye movements during lifeguard visual search for a drowning swimmer
	Victoria Laxton, David Crundall, Christina Howard & Duncan Guest
11.50	Multiple Object Avoidance (MOA): A more sensitive measure of visual attention in the real world
	Andrew K. Mackenzie, Paul R. Cox, Christina Howard, Duncan Guest & David Crundall
12.10	The (Change) Blindingly Obvious: Investigating Fixation Behaviour during CCTV Observation
	Gemma Graham, James Sauer, Jenny Smith, Lucy Akehurst & James Ost
12.30	Eye movements during perspective-taking in younger and older adults
	Victoria E. A. Brunsdon, Elisabeth E. F. Bradford & Heather Ferguson
12.50	Using eye-tracking to study how belief-reasoning processes change across the lifespan
	Elisabeth E. F. Bradford, Victoria E. A. Brunsdon, Heather Ferguson
13.10	An eye-tracking investigation of mindset effects on information search in incentivized decisions under uncertainty
	Jonas Ludwig, Alexander Jaudas & Anja Achtziger

Thematic session: Reading: Word level processing

Room 4 (HS 26 - I.13.65)   Chair: Heather Sheridan

11.30	Raeding transposde etxt: Effects of letter position, word frequency and constraint
	Christopher James Hand, Joanne Ingram & Graham Scott
11.50	Morphological guidance of eye movements during reading
	Jukka Hyönä, Seppo Vainio & Timo Heikkilä
12.10	Morphological processing in sentence reading: Evidence from the fast priming paradigm
	Betty Mousikou & Sascha Schroeder
12.30	Distributional analyses of age of acquisition effects on fixation durations during reading
	Heather Sheridan & Barbara J. Juhasz
12.50	Eye movements during lexical access of a third language
	Pâmela Freitas Pereira Toassi, Mailce B. Mota & Elisângela N. Teixeira
13.10	Learning new words when reading: effects of contextual diversity and temporal spacing
	Ascensión Pagán & Kate Nation

Thursday, August 24th, 14.30 - 16.30

Symposium: Yarbus, eye movements and vision 50 years on

Room 1 (HS 14 – M.10.12)   Convenor: Benjamin W. Tatler

14.30   Yarbus on stationary retinal images and moving eyes
         Nicholas Wade
14.50   The evolution of gaze analysis tools to support complex tasks
         Jeff B. Pelz
~~15.10~~   ~~Computational modeling of gaze guidance during scene free viewing and daily~~
         ~~tasks~~
         ~~*Ali Borji*~~
15.30   Eye guidance in scenes: Object-based selection in extrafoveal vision
         Antje Nuthmann
15.50   Characterising top-down guidance of fixation in scenes and objects
         Tom Foulsham
16.10   The balance between the stimulus and the task in determining the scanpath
         Iain Gilchrist

Thematic session: Clinical Research II

Room 2 (HS 32 - K.11.23)   Chair: Valerie Benson

14.30   Processing of Co-Reference in Autism Spectrum Disorder
         Philippa L. Howard, Simon P. Liversedge & Valerie Benson
14.50   How does the presence or absence of a Title Modulate Processing of Ambiguous
         Passages in Individuals with Autism: An Eye Movement Study
         Valerie Benson, Philippa Howard & Johanna Kaakinen
15.10   Inhibitory control for emotional and neutral scenes in competition: An eye-
         tracking study in bipolar disorder
         Manuel Perea, Ladislao Salmerón & Ana García-Blanco
15.30   Smooth Pursuit in Adults with Developmental Dyslexia
         Gillian O'Driscoll, Veronica Whitford, Ashley Chau-Morris & Debra Titone
~~15.50~~   ~~Visual field diagnostics with eye tracking: development and neuropsychological~~
         ~~testing of a new diagnostic tool~~
         ~~*Michael Christian Leitner, Constanze Haslacher, Stefan Hawelka, Lorenzo Vignali,*~~
         ~~*Sarah Schuster & Florian Hutzler*~~ → **moved to Clinical Research I (Tuesday, 12.10)**
15.50   Eye tracking live social interaction to capture gaze behavior of subclinical autism
         and social anxiety
         Roy S. Hessels, Gijs A. Holleman, Tim H. W. Cornelissen, Ignace T. C. Hooge &
         Chantal Kemner
16.10   Calibrating an eye tracker for blind patients implanted with the Argus II retinal
         prosthesis using a handheld marker
         Avi Caspi, Jessy D. Dorn, Arup Roy, Robert J. Greenberg

Thematic session: Eye data analysis and evaluation

Room 3 (HS 28 - I.13.71)   Chair: Laura Matzen

14.30   SMAC with HMM: a toolbox to model and classify scanpaths with Hidden Markov
          Models
          Antoine Coutrot
14.50   Gaze Self-similarity Plots as a useful tool for eye movement characteristics analysis
          Pawel Kasprowski & Katarzyna Harezlak
15.10   Towards to an automatic authentication method based on eye movement by using
          scanpath comparison algorithms
          Carlos-Alberto Quintana-Nevárez & Francisco López-Orozco
15.30   Magnitude and Nature of Variability in Eye-tracking Data
          Kenneth Holmqvist, Raimondas Zemblys & Tanya Beelders
15.50   Effects of Task on Eye Movements During Comprehension of Abstract Data
          Visualizations
          Laura Matzen, Kristin Divis & Michael Haass

Thematic session: Reading: Across the lifespan

Room 4 (HS 26 - I.13.65)   Chair: Kevin Paterson

14.30   Syllables vs. morphemes in early reading of Finnish
          Tuomo Häikiö & Seppo Vainio
14.50   Words from the wizarding world: Reading fictional words in supportive and non-
          supportive contexts
          Joanne Ingram & Christopher J. Hand
15.10   Re-Assessing Adult Age Differences in the Perceptual Span during Reading
          Kevin Paterson, Kayleigh Warrington, Sarah White & Victoria McGowan
15.30   Adult Age Differences in Chinese Reading: Effects of Character Complexity
          Jingxin Wang, Lin Li, Sha Li, Yingying Zhang & Kevin Paterson
15.50   Aging and the Misperception of Words during Reading
          Kayleigh L. Warrington, Sarah J. White, Victoria A. McGowan & Kevin B. Paterson

Poster

Session I -Monday, August 21st, 15.30 - 17.00

Attention and visual information processing

I-1   Gaze-contingent stimulus removal leads to subsequent changes in attentional allocation
Karin Ludwig, Doris Schmid & Thomas Schenk

I-2   The relationship between subjective time perception and visual attention
Maria Konstantinova, Leonid Tereshchenko, Viktor Anisimov & Alexander Latanov

I-3   Rapid top-down and bottom-up auditory attention as reflected by (micro-)saccadic inhibition
Andreas Widmann, Alexandra Bendixen, Susann Duwe, Ralf Engbert, Erich Schröger & Nicole Wetze

I-4   Pre-saccadic remapping of foveal attention
Meng Fei Ngan, Luca Wollenberg, Heiner Deubel & Martin Szinte

I-5   Saccade deviation and saccadic reaction time: What is the relationship?
Luke Tudge & Torsten Schubert

I-6   Can you squint on command? No reliable voluntary control and awareness of eye vergence in the absence of an actual target
Sonja Walcher, Christof Körner & Mathias Benedek

I-7   Maintaining stability in a fixation task: Are stimuli at all eccentricities equally effective?
Anna-Katharina Hauperich & Hannah E. Smithson

I-8   Extrafoveal perception of geometric shapes in adults and children
Anatoly N. Krichevets, Dmitry V. Chumachenko, Anna A. Dreneva & Anna Yu. Shvarts

I-9   What can and what cannot be perceived extrafoveally
Anna A. Dreneva, Anna Yu Shvarts, Dmitry V. Chumachenko & Anatoly N. Krichevets

I-10   Attention and response speed in pupil old/new effects
Tim Graf & Andreas Brocher

I-11   Effect of aging on ocular fixation and microsaccades during optic flow
Marcia Bécu, Guillaume Tatur, Alix de Dieuleveult, Changmin Wu, Silvia Marchesotti, Denis Sheynikhovich & Angelo Arleo

I-12   Saccadic adpatation increases brain excitability: a MEG study
Judith Nicolas, Aline Bompas, Romain Bouet, Olivier Sillan, Eric Koun, Christian Urquizar, Alessandro Farnè, Aurélie Bidet-Caulet & Denis Pélisson

I-13   Localization of briefly flashed targets across sequential eye-movements
Janne van Aswegen, Stefan Dowiasch & Frank Bremmer

I-14   ~~The influence of threat associated distractors on express saccades~~
~~Jessica Heeman, Stefan Van der Stigchel & Jan Theeuwes~~

I-15   Stereoacuity in the temporal proximity of vergence movements
Thomas Eggert

I-16   A Tool-based Process for Generating Attention Distribution Predictions
Sebastian Feuerstack & Bertram Weutelen

Reading: Visual and orthographic processing

I-17   Statistical Estimation of Oculomotor Processes During Reading
Johan Chandra, André Krügel & Ralf Engbert

I-18   Contrast change effects reveal time course of parafoveal processing in eye movements during reading
Tina Andrea Schlachter & Sarah Risse

I-19   Gaze-contingent unmasking of filtered text regions during reading of graphic literature
Sven Hohenstein, Jochen Laubrock & Eike M. Richter

I-20   The effect of misspellings on reading of correctly spelled words, across paradigms and languages
Victor Kuperman & Sadaf Rahmanian

I-21   Reading at the speed of speech: Convergence between visual and auditory language perception at 4-5 Hz?
Benjamin Gagl, Julius Golch, Stefan Hawelka, Jona Sassenhagen, David Poeppel & Christian J. Fiebach

I-22   Effective visual field of horizontal and vertical reading in Japanese
Nobuyuki Jincho

I-23   The perceptual span of young and older Chinese readers
Victoria A. McGowan, Kayleigh L. Warrington, Lin Li, Sha Li, Yingying Zhang, Yuxiang Yao, Jingxin Wang, Sarah J. White & Kevin B. Paterson

I-24   Effects of Aging and Pattern Complexity on the Visual Span of Chinese Readers
Kayleigh L. Warrington, Lin Li, Fang Xie, Sha Li, Jingxin Wang, Victoria A. McGowan, Sarah J. White & Kevin B. Paterson

I-25   Adult Age Differences in Eye-Guidance during Chinese Reading
Lin Li, Sha Li, Jingxin Wang, Yuxiang Yao & Kevin B. Paterson

I-26   Eye Movement Control and Word Identification During Vertical and Horizontal Reading: Evidence from Mongolian
Kevin Paterson, Juan Su, Guoen Yin, Xuejun Bai, Guoli Yan & Simon P. Liversedge

I-27   The Perceptual Span during Vertical and Horizontal Reading: Evidence from Mongolan
Kevin Paterson, Juan Su, Guoen Yin, Stoyan Kurtev, Simon P. Liversedge, Bai Xuejun & Guoli Yan

I-28   Investigating word length in Chinese reading: Evidence from eye movements
Chuanli Zang, Ying Fu & Simon P. Liversedge

I-29   The last, but not the initial character's positional frequency affects Chinese compound word processing in reading
Feifei Liang, Qi Gao, Jie Ma, Hao Wu & Xuejun Bai

I-30   The role of spaces in segmenting Finnish and Chinese text
Raymond Bertram, Liyuan He & Simon P. Liversedge

I-31   Vertical movement within fixations in the reading of Chinese and English
Yi-ting Hsiao, Richard Shillcock, Mateo Obregón, Hamutal Kreiner, Matthew A.J. Roberts & Scott McDonald

I-32   When readers pay attention to the left: A concurrent eyetracking-fMRI investigation on the neuronal correlates of regressive eye movements during reading
Anna F. Weiß, Franziska Kretzschmar, Arne Nagels, Matthias Schlesewsky, Ina Bornkessel-Schlesewsky & Sarah Tune

Developmental Eye Movement Research

I-33   Fetal eye movements in response to a visual stimulus
Tim Donovan, Kirsty Dunn, Sophie Clarke, Anna Gillies, Olivia Mercer & Vincent Reid

I-34   Early regulatory problems associated with the affect-biased attention at 8 month of age
Eeva Eskola, Riikka Korja, Eeva-Leena Kataja, Linnea Karlsson, Tuomo Häikiö, Henri Pesonen, Jukka Hyönä & Hasse Karlsson

I-35   MATERNAL PRENATAL STRESS AND INFANT ATTENTION TO EMOTIONAL FACES AT THE AGE OF EIGHT MONTHS IN FINNBRAIN BIRTH COHORT
Eeva-Leena Kataja, Linnea Karlsson, Henri Pesonen, Jukka Leppänen, Tuomo Häikiö, Jukka Hyönä, Christine Parsons & Hasse Karlsson

I-36   Infant free-viewing: the role of object knowledge
Daan van Renswoude, Maartje Raijmakers, Roos Voorvaart & Ingmar Visser

Developmental research on eye movements in reading

Efficiency
Kristin Gehsmann, Elias Tousley, Alexandra Spichtig, Jeffrey Pascoe & John Ferrara

I-49   The Reliability of Reading Efficiency Measures Obtained by Classroom Educators
        Using a Low-Cost Eye Movement Recording System
        Alexandra Spichtig, Jeffrey Pascoe & John Ferrara

I-50   What can we reveal from saccade events of eye movements when EFL high school
        students read narrative with illustration?
        Grace Ming-Yi Hsieh & Sunny San-Ju Lin

Usability, New Media and Visual Communication

I-51   Situational Modulation of Multimedia Processing Strategies
        Fang Zhao, Wolfgang Schnotz, Inga Wagner & Robert Gaschler

I-52   Extraction of Semantic Saliency on Memory and Remembering during
        reading/searching information in the context of Web interaction
        Véronique Drai-Zerbib & Thierry Baccino

I-53   Typography and individual experience in digital reading: Do readers' eye movements
        adapt to poor justification?
        Julian Jarosch, Matthias Schlesewsky, Stephan Füssel & Franziska Kretzschmar

I-54   A contrastive perception study of popular-scientific texts written by journalists vs.
        researchers
        *Silvia Hansen-Schirra, Jean Nitzke, Anke Tardel, Christoph Böhmert & Philipp
        Niemannl*

I-55   Eye Response to Blockiness Artifacts in Video
        Deepti Pappusett & Hari Kalva

I-56   ~~Personalization in online advertising: Effects of demographic targeting on visual
        attention~~
        ~~Kai Kaspar, Sarah Lucia Weber & Anne-Kathrin Wilbers~~

I-57   Attention to brand logos during the first exposure to advertisements affects the
        neural correlates of recognition memory: An eye movement – ERP study
        Jaana Simola

I-58   Eye Movement Markers in Perceiving of Logos
        *Adel Adiatullin, Marina Koroleva, Victor Anisimov, Alexander Latanov & Natliya
        Galkina*

I-59   Understanding use of labelling information when preparing infant formula: an eye-
        tracking study
        Lenka Malek, Hazel Fowler & Gillian Duffy

I-60   Visual intake of price information of organic food – a shopping task with Eye-Tracking Glasses
Manika Rödiger & Ulrich Hamm

I-61   The 'objectfiying gaze' - how it is affected by information on distribution of sexting images
Frederike Wenzlaff, Briken Peer & Dekker Arne

I-62   Speed transformation function as a mean of improvement of gaze-based HCI
Dominik Chrząstowski-Wachtel, Cezary Biele, Marek Młodożeniec, Anna Niedzielska, Jarosław Kowalski, Paweł Kobyliński, Krzysztof Krejtz & Andrew T. Duchowski

I-63   Investigating gaze-controlled input in a cognitive selection test
Katja Gayraud, Catrin Hasse, Hinnerk Eißfeldt & Sebastian Pannasch

I-64   The effect of visual signaling when reading to do
Michael Meng

I-65   Eye-Tracking-Based Attention Guidance in Mobile Augmented Reality Assistance Systems
Patrick Renner & Thies Pfeiffer

I-66   Usability Heuristics for Eye-Controlled User Interfaces
Korok Sengupta, Chandan Kumar & Steffen Staab

I-67   CrowdPupil: A crowdsourced, pupil-center annotated image dataset
David Gil de Gómez Pérez & Roman Bednarik

I-68   Robust, real-time eye movement classification for gaze interaction using finite state machines
Antonio Diaz-Tula & Carlos H. Morimoto

I-69   Supervised Gaze Bias Correction for Gaze Coding in Interactions
Rémy Siegfried & Jean-Marc Odobez

I-70   Schau genau! A Gaze-Controlled 3D Game for Entertainment and Education
Raphael Menges, Chandan Kumar, Ulrich Wechselberger, Christoph Schaefer, Tina Walber & Steffen Staab

Social Cognition, emotion and cultural factors

I-71   A Framework for Exploring the Social Gaze Space
Arne Hartz, Mathis Jording, BjörnGuth, Kai Vogeley & Martin Schulte-Rüther

I-72   Visual Exploration of Social Stimuli – Comparisons of Patients with ADHD or Autism and Healthy Controls
Chara Ioannou, Divya Seernani, Holger Hill, Giuseppe Boccignone, Tom Foulsham, Monica Biscaldi-Schäfer, Christopher Saville, Ulrich Ebner-Priemer, Christian Fleischhaker & Christoph Klein

I-73 Eye movement patterns in response to social and non-social cues
Claudia Bonmassar, Francesco Pavani & Wieske van Zoest

I-74 Oculomotor action control in social and non-social information processing contexts
Eva Katharina Riechelmann, Anne Böckler, Tim Raettig & Lynn Huestegge

I-75 Understanding social interaction and social presence of others using simultaneous eye tracking of two people: Behavioral Data
Haruka Nakamura, Seiya Kamiya & Takako Yoshida

I-76 Gender differences in natural viewing behavior?
Marco Rüth, Anne-Kathrin Wilbers, Daniel Zimmermann & Kai Kaspar

I-77 Does our native language determine what we pay attention to? A cross-linguistic study of gaze behaviour between Korean and German speakers
Florian Goller, Ulrich Ansorge & Soonja Choi

I-78 Social influence on face perception in different ethnicities – An eye tracking study in a free viewing scenario
Jonas D. Großekathöfer & Matthias Gamer

I-79 Psychopaths show a reduced tendency to look at the eyes while categorizing emotional faces
Nina A. Gehrer, Jonathan Scheeff, Aiste Jusyte & Michael Schönenberg

I-80 Perceiver's sensitivity and lateralization bias in the detection of posed and genuine facial emotions in movie clips: eye tracking study
Katerina Lukasova, Yuri Busin, Manish K. Asthana & Elizeu C. Macedo

I-81 Implicit Negative Affect Predicts Attention for Sad Faces beyond Self-Reported Depression – An Eye Tracking Study
Charlott M. Bodenschatz, Marija Skopinceva, Anette Kersting & Thomas Suslow

I-82 Gender differences in eye movement patterns during facial expression recognition
Elizaveta Luniakova, Natalia Malysheva & Jahan Ganizada

I-83 Analyzing Emotional Facial Expressions' Neural Correlates Using Event-Related Potentials and Eye Fixation-Related Potentials
Emmanuelle Kristensen, Raphaëlle N. Roy, Bertrand Rivet, Anna Tcherkassof & Anne Guérin-Dugué

I-84 Affective and Cognitive Influences of Aesthetic Appeal of Texts on Oculomotor Parameters
Hideyuki Hoshi

I-85 The eye movement examination on achievement emotion images
Chia Yueh Chang & Sunny SJ. Lin

I-86   Space scanning patterns in impulsive and reflective subjects
         Anna Izmalkova & Irina Blinnikova

I-87   Correlations between eye movements and personality traits
         Anne-Kathrin Wilbers & Kai Kaspar

Session II - Tuesday, August 22nd, 15.30 - 17.00

Smooth pursuit eye movements

II-1   Saliency coding in superior colliculus during smooth pursuit eye movements
         Brian White, Jing Chen, Karl Gegenfurtner & Douglas Munoz

II-2   Analysis of superior colliculus receptive fields during smooth pursuit eye movements
         Jing Chen, Brian White, Karl Gegenfurtner, & Doug Munoz

II-3   Doing Smooth Pursuit paradigms in Windows 7
         Inge L. Wilms

II-4   Predictable motion on a Necker cube leads to micro-pursuit-like eye movements and
         affects the dynamics of bistability.
         Kevin M. Ashwin Parisot, Alan Chauvin, Anne Guérin, Ronald Phlypo & Steeve Zozor

II-5   Manual & Automatic Detection of Smooth Pursuit in Dynamic Natural Scenes
         Mikhail Startsev, Ioannis Agtzidis & Michael Dorr

II-6   Spatiotemporal EEG Source Localization during Smooth Pursuit Eye Movement by
         Use of Equivalent Dipole Source Localization Method
         Takahiro Yamanoi, Tomoko Yonemura & Hisashi Toyoshima

II-7   Visual transient onsets decrease initial smooth pursuit velocity and inhibit the
         triggering of catch-up saccades
         Antimo Buonocore & Ziad M. Hafed

Visual Search, Scanpaths and Scene Perception

II-8   Searching for real objects in a natural environment: The role of contextual semantic
         cues and incidental encoding in older and young viewers
         Hanane Ramzaoui, Sylvane Faure & Sara Spotorn

II-9   ~~Dwelling, Rescanning, and Skipping of Distractors Explain Search Efficiency in Difficult~~
         ~~Search: Evidence from Large Set Sizes and Unstructured Displays~~
         ~~*Gernot Horstmann, Stefanie Becker & Daniel Ernst*~~

II-10   The effect of changing the item relevance in repeated search
         Sebastian A. Bauch, Christof Körner, Iain D. Gilchrist & Margit Höfler

II-11   Target and distractor guidance in repeated visual search: When using memory does not improve search
Margit Höfler, Iain D. Gilchrist, Anja Ischebeck & Christof Körner

II-12   Process Analysis of Visual Search in ADHD, Autism and Healthy Controls – Evidence from Intra- Subject Variability in Gaze Control.
Divya P. Seernani, Holger Hill, Giuseppe Boccignone, Tom Foulsham, Christian Fleischhaker, Monica Biscaldi, Ulrich Ebner-Priemer & Christoph Klein

II-13   When one target predicts the other: Target guidance in visual search
Christof Körner, Jonas Potthoff, Ulrich Ebner-Priemer & Christoph Klein

II-14   Does context influence the low prevalence effect in visual search?
Titus N. Ebersbach, Walter R. Boot & Ralph Radach

II-15   Simulation of visual hemi-neglect by spatio-topic and retino-topic manipulation of visual search displays
Jennifer Winter, Björn Machner, Inga Könemund, Janina von der Gablentz, Christoph Helmchen & Andreas Sprenger

II-16   Where can I find the Honey, Honey? Using color cues to overwrite syntactic rules in a scene-search paradigm
Marian D. Laukamp, Lisa Völker, Sabine Öhlschläger & Melissa Le-Hoa Vo

II-17   Time course of central and peripheral processing during scene viewing
Anke Cajar, Ralf Engbert & Jochen Laubrock

II-18   Central fixation bias: The role of sudden image onset and early gist extraction
Lisa F. Schwetlick, Lars O. M. Rothkegel, Hans A. Trukenbrod & Ralf Engbert

II-19   Eye movements in scene perception during quiet standing
Daniel Backhaus, Hans A. Trukenbrod, Lars O. M. Rothkegel, Ralf Engbert

II-20   Gaze Paths on a Stochastic Image
Miriam Mirolla & Emiliano Melchiorre

II-21   Eye movements and saliency for the Hollywood2 action recognition benchmark
Michael Dorr & Eleonora Vig

II-22   Cultural variation in eye movements during scene perception: replication with a Russian sample
Anton Gasimov & Artem Kovalev

II-23   The influence of verbalization on eye movement parameters during complex scene repeated viewing
Veronika Prokopenya & Ekaterina Torubarova

Clinical Research

II-24   EyeGrip as a tool for assessing dementia
         Diako Mardanbegi, Shahram Jalaliniya, Hans Gellersen, Trevor J. Crawford & Peter Sawyer

II-25   Executive function processes in dementia: Impairments in anti-saccadic eye movements are indicative for first disease stages
         Lucas Paletta, Martin Pszeida & Mariella Panagl

II-26   EYE MOVEMENT BEHAVIOR IN MCI AND AD: USING AUTOMATIC CLASSIFICATION ALGORITHMS TO IDENTIFY COGNTIVE DECLINE
         Marta L. G. F. Pereira, Marina von Zuben de Arruda Camargo, Ariella F. Belan, Bernardo dos Santos & Orestes V. Forlenza

II-27   Eye Movement Parameters while Executing Oculomotor Tasks in Patients with Cerebellum Tumor
         Marina Shurupova, Viktor Anisimov, Alexander Latanov & Vladimir Kasatkin

II-28   GENERAIN – a transgenerational eye-tracking study on attention biases in children at risk for depression
         Anca Sfärlea, Elske Salemink, Gerd Schulte-Körne & Belinda Platt

II-29   Saccadic inhibition and its interaction with implicit processing of emotion in Bipolar Disorder patients
         Nathalie Guyader, Alan Chauvin, Lysianne Beynel, Sylvain Harquel, Cécilia Neige & Mircea Polosan

II-30   Utilizing Eye-Movement Patterns for Improving ADHD Diagnosis and Malingering Detection
         Michael Wagner, Corinne Berger, Yoram Braw, Tomer Elbaum & Tzur Chohen

II-31   Parafoveal processing Efficiency in Chinese developmental dyslexia: Evidence from RAN tasks
         Wen Wang, Ke Tan, Mingzhe Zhang & Xuejun Bai

II-32   Investigating the effects of orthographic visual complexity on fixations in typical and dyslexic reading of English
         Rea Marmarinou, Jun Bao, Richard Shillcock, Mateo Obregón, Hamutal Kreiner, Matthew A.J. Roberts & Scott McDonald

II-33   The benefit of eye tracking in the assessment and therapy of acquired dyslexia
         Irene Ablinger & Ralph Radach

II-34   A visuomotor analysis of multilevel therapy in pure alexia
         Anne Friede, Irene Ablinger & Ralph Radach

II-35   Eye movements in text reading in a patient with incomplete Bálint`s syndrome
         Katja Halm, Ralph Radach & Irene Ablinger

II-36   Localizing hemianopic visual field defects based on natural viewing behavior while watching movie clips
Birte Gestefeld, Alessandro Grillini, Jan-Bernard C. Marsman & Frans W. Cornelissen

II-37   Visual search behaviours in dementia-related visual impairment in controlled real-world settings
Ayako Suzuki, Keir Yong, Ian McCarthy, Tatsuto Suzuki, Dilek Ocal, Nikolaos Papadosifos, Derrick Boampong, Nick Tyler & Sebastian Crutch

II-38   Playing games with your eyes: using gaze for intervention and outcome assessment in ASD
Leanne Chukoskie & Jeanne Townsend

II-39   Novel steps for online eye-gaze contingent attention training: A mouse-based moving window approach
Alvaro Sanchez, Jill Van Put & Ernst Koster

Reading: high-level processing

II-40   Sentence to image priming of gender information. Can eyetracking data shed more light on priming effects?
Anton Öttl, Ute Gabriel, Dawn Marie Behne, Pascal Gygax & Jukka Hyönä

II-41   How L2 instruction influences eye-movements during reading: a within-participant study of English learners
Daniel Schmidtke , Amy-Beth Warriner, Victor Kuperman & Anna Moro

II-42   Metaphor comprehension in English as an additional language learner (EALL): evidence from eye movements
Annina Kristina Hessel, Victoria Murphy & Kate Nation

II-43   Using Eye Movements to Investigate Cross-Language Syntactic Activation During Natural Reading
Naomi Vingron, Jason Gullifer, Veronica Whitford, Deanna Friesen, Debra Jared & Debra Titone

II-44   Reading first and second language comprehension texts in Sepedi and English among senior phase learners
Pheladi F. Fakude

II-45   Selective Attention of Second Language Readers
Caleb Prichard & Andrew Atkins

II-46   Task effects reveal cognitive flexibility responding to readers' level and word frequency: Evidence from eye movements for Chinese-English bilinguals during English reading
Xin Li, Haichao Li, Jingyao Liu, Yongsheng Wang, Xuejun Bai & Guoli Yan

II-47   How EFL beginners and intermediate level students read story structures along with illustrations via eye-tracking techniques
Grace Ming-Yi Hsieh & Sunny San-Ju Lin

II-48   The influence of location information and word frequency on Chinese poly morphemic word recognition
Erjia Xu & Xue Sui

II-49   Literal and Figurative Language Processing: Evidence from Bilingual Sentence Reading
Danielle dos Santos Wisintainer & Mailce B. Mota

II-50   Reading and topic scanning in English and Chinese: Effects of word frequency and spacing
Sarah J. White, Yaqi Wang & Xue Sui

II-51   Eye movements in reading global and local syntactic ambiguity in Russian
Victor Anisimov, Olga Fedorova, Leonid Tereschenko & Alexander Latanov

II-52   Effects of counterargument construction instruction and viewpoint presentation order on reducing myside bias in reading texts regarding controversial issues
Miao-Hsuan Yen & Ying-Tien Wu

II-53   The Effects of Tasks and Signals on Text Processing for Readers with Different Strategies
Shouxin Li, Dexiang Zhang, Zhaoxia Zhu & Yuwei Zheng

II-54   Eye movement correlates of absorbed literary reading
Moniek Kuijpers & Sebastian Wallot

II-55   The role of defaultness and personality factors in sarcasm interpretation: Evidence from eye-tracking during reading
Ruth Filik, Hannah Howman, Christina Ralph-Nearman & Rachel Giora

Cognition and Learning

II-56   ~~Lab - Field Comparisons on Intra-Subject Variability of Eye Movements~~
~~Divya P. Seernani, Holger Hill, Chara Ioannou, Nadine Penkalla, Giuseppe Boccignone, Tom Foulsham, Christian Fleischhaker, Monica Biscaldi, Ulrich Ebner-Priemer & Christoph Klein~~
moved to III-46

II-56   Eye movements are linked to sexual preference in a real world preferential looking paradigm
Frouke Hermens & Oliver Baldry

II-57   Smart Detection of Driver Distraction Events
William David Clifford, Catherine Deegan & Charles Markham

II-58   The Influence of Light-Induced Dynamics on Attention, Perception, and Driving
         Behavior: A Real-World Driving Study
         Markus Grüner, Peter Hartmann, Ulrich Ansorge & Christian Büsel

II-59   Investigating Feedback Processing with Eye Tracking
         Kim Dirkx, Jarodzka Halszka & Desiree Joosten-ten Brinke

II-60   Sleep deprivation systematically changes eye movement characteristics
         *Justine Winkler, Ricardo Ramos Gameiro, Peter König, Daniel Aeschbach & Christian
         Mühl*

II-61   Applying head-mounted eye-tracking to investigate cultural differences in real-world
         face scanning
         Jennifer X. Haensel, Tim J. Smith & Atsushi Senju

II-62   Presentation Parameters Affecting Effects in the Visual World Paradigm
         Marie-Anne Morand & Constanze Vorwerg

II-63   Predicting Information Context Processing from Eye movements
         Saurin S. Parikh, Hari Kalva

II-64   Confidence in perceptual judgments preceding eye movements
         Monique Michl & Wolfgang Einhäuser

II-65   The relationship between performance in the anti-saccade task and memory for
         paintings
         Tobiasz Trawinski, Natalie Mestry, Simon P. Liversedge & Nick Donnelly

II-66   A closer look at numbers in simultaneous interpreting: An eye-tracking study
         Pawel Korpal & Katarzyna Stachowiak

II-67   Is parallel language activation modulated by simultaneous interpreting expertise?
         Laura Keller

II-68   Can you see what I'm saying? Eye movements and bilingual spoken language
         processing in conference interpreting
         Katarzyna Stachowiak

II-69   Evidencing the emergence of sensorimotor structures underlying proportional
         reasoning
         *Shakila Shayan, Loes Boven, Arthur Bakker, Marieke van der Schaaf & Dor
         Abrahamson*

II-70   From lenses movement to cognitive processes: What new insight may eye tracking
         provide
         *Gustavo Gasaneo, Maria L. Freije, Juan I. Specht, Adrian A. Jimenez Gandica, Claudio
         A. Delrioux, Borko Stosic & Tatijana Stosic*

Methods, Software and innovative Technology

II-71   Statistical analysis of eye movement sequences using spatial point processes
Anna-Kaisa Ylitalo

II-72   Study of fixations and saccades when viewing holograms, stereo images, and 2D images
Taina M. Lehtimäki, MikkoNiemelä, Risto Näsänen, Ronan G. Reilly & Thomas J. Naughton

II-73   Using gaze data to evaluate text readability: a multi task learning approach
Ana V. Gonzalez-Garduño

II-74   Parsing Pupil and Eyeball Movement in Camera-based Eye-tracker Output
Jun Bao & Richard Shillcock

II-75   Extracting Saccade-to-fixation Trajectory From Eye Movement Data in Reading
Jun Bao & Richard Shillcock

II-76   Data-driven Gaze Event Classification for the Analysis of Eye and Head Coordination By Natural Task.
Gabriel J. Diaz, Reynold Bailey, Chris Kanan, Mychal Lipson, Jeff Pelz & Rakshit Kothari

II-77   Assessment of Two Low Cost Eye Trackers
Shanmugaraj Madasamy

II-78   Mobile eye tracking: Reliability in assessing saccadic eye movements in reading
Alexander Leube, Katharina Rifai & Siegfried Wahl

II-79   Is There a "Paperback" Option in the Domain of Eye Trackers? A New Approach for Comparing Devices
Agnes Scholz, Johannes Titz & Peter Sedlmeier

II-80   What to expect from your remote eye-tracker when participants are unrestrained
Diederick C. Niehorster, Tim H. W. Cornelissen, Kenneth Holmqvist, Ignace T.C. Hooge & Roy S. Hessels

II-81   Gaussian Mixture Models for Information Integration: Toward Gaze-Informed Information Foraging Models for Imagery Analysis
Maximillian Chen, Kristin Divis, Laura McNamara, J. Daniel Morrow & David Perkins

II-82   Moving from low level eye movement data to meaningful content in dynamic environments
Kristin M. Divis, Maximillian Chen, Laura McNamara, J. Dan Morrow & David Perkins

II-83   Measuring dynamic and static vergence using an autostereoscopic display
Wolfgang Jaschinski

II-84   Objective measurement of variability of fixation disparity – is it possible?
Dawid Dominiak, Alicja Brenk-Krakowska & Wolfgang Jaschinski

II-85   Sturmian-Wavelets as a tool to analyze eye tracking data
Jessica A. Del Punta, Gustavo Gasaneo, María L. Freije, Marcos Meo & Lorenzo U. Ancarani

II-86   Study on eye movement dynamics during the 'jumping point' experiment
Katarzyna Harezlak & Pawel Kasprowski

II-87   An Update to the EYE-EEG Toolbox for Combined Eye-Tracking and EEG
Olaf Dimigen

II-88   Accuracy and precision test for a remote visible spectrum eye tracker
Chia-Ning Liao, Ming-Da Wu, Yen-Hua Chang, Wen-Chung Kao, Yi-Chin Chiu & Yao-Ting Sung

II-89   Study on Directional Eye Movements in Non-frontal Face Images for Eye-controlled Interaction
Min Lin

II-90   Eye-movement in the dark for the exploration of virtual scenes encoded by sounds
Sylvain Huet, Julien Doré, Zélie Buquet, Denis Pellerin & Christian Graff

II-91   OT Eye: A tool to guide intervention and monitor progress during occupational therapy
Pieter Blignaut, Elize Janse van Rensburg & Marsha Oberholzer

II-92   GazeCode: an open-source toolbox for mobile eye-tracking data analysis
Jeroen S. Benjamins, Roy S. Hessels & Ignace T.C. Hooge

II-93   Gaze Contingent Control of Vergence, Yaw and Pitch of Robotic Eyes for Immersive Telepresence
Remi Cambuzat, Frédéric Elisei & Gérard Bailly

Session III - Wednesday, August 23rd, 15.30 - 17.00

Visual perception and ocolomotor control

III-1   Exploring the temporal dynamics of trans-saccadic perceptual re-calibration
Matteo Valsecchi, Carlos R. Cassanello, Arvid Herwig, Martin Rolfs & Karl R. Gegenfurtner

III-2   Selective facilitation of the luminance visual pathway by postsaccadic target blanking
Kazumichi Matsumiya, Masayuki Sato & Satoshi Shioiri

III-3   Transsaccadic prediction of real-world objects
Arvid Herwig

III-4 Visual perception of intrasaccadic information: A response priming experiment
Charlotte Schwedes, Elodie Banse, Lorena Hell & Dirk Wentura

III-5 Visual working memory aids trans-saccadic integration
Emma E. Marshall Stewart & Alexander C Schütz

III-6 ERP potentials at the stage of saccadic preparation
Victoria Moiseeva, Maria Slavutskaya, Natalia Fonsova & Valery Shulgovskiy

III-7 The effect of distractor processing on the target-related P300: Evidence from fixation-related potentials
Hannah Hiebel, Joe Miller, Clemens Brunner, Andrey R. Nikolaev, Margit Höfler, Anja Ischebeck & Christof Körner

III-8 Asymmetrical effects of saccade training on express saccade proportion in the nasal and temporal hemifields
Arni Kristjansson, Jay Edelman, Bjarki D. Sigurþorsson & Ómar I. Johannesson

III-9 Saccade training increases peak velocities and express saccade proportion for both trained and untrained eyes
Ómar I. Johannesson, Jay A. Edelman, Bjarki D. Sigurþórsson & Árni Krisjánsson

III-10 Age-related changes in modulation of saccadic control by salience and value
Jing Huang, Karl R. Gegenfurtner, Alexander C. Schütz & Jutta Billino

III-11 An age-dependent saccadic saliency model
Antoine Coutrot & Olivier Le Meur

III-12 Can the cortical magnification factor account for the latency increase in the remote distractor effect when the distractor is less eccentric than the target?
Soazig Casteau, Françoise Vitu & Robin Walker

III-13 The optokinetic nystagmus dynamic reflects the vection illusion perception
Artem Kovalev

III-14 The use of eye tracking in fMRI study: differences in adults and children predictive saccades
Katerina Lukasova & Edson Amaro

III-15 Microsaccade and blink rates index subjective states during audiobook listening
Elke B. Lange & Moniek Kuijpers

III-16 Fixation duration in EOG studies with eyes closed
Tanina Rolf & Niels Galley

III-17 Separate resource pools for effector systems? Evidence from manual-oculomotor dual tasks
Aleks Pieczykolan & Lynn Huestegge

III-18   Influence of background illumination on horizontal and vertical objective fixation disparity
Remo Poffa, Joëlle Joss & Roland Joos

Interactive and group eye tracking

III-19   Explore the effectiveness of online dynamic video-text vs. static image-text multimedia learning on students' science performance: An Eye movement study
Ya-Chi Lin & Hsiao-Ching She

III-20   Using eye-tracking to provide dynamic assistance on the reading skills of beginner readers on desktop or mobile devices
Rykie Van der Westhuizen & Pieter Blignaut

III-21   Using Eye Tracking Data to Assist Identifying Wayfinding Strategies in the Virtual Maze
Tsuei-Ju Hsieh & Jun-Kai Niu

III-22   Real-time visualisation of student attention in a computer laboratory
Pieter Blignaut

III-23   Detecting collaboration in a real classroom mathematics problem solving session from visual scan-paths
Enrique G. Moreno-Esteva, Jessica Salminen-Saari, Miika Toivanen & Markku S. Hannula

III-24   Preservice teachers' professional vision of own classroom management: combining mobile eye tracking in the classroom with retrospective reporting
Sharisse van Driel, Halskza Jarodzka, Frank Crasborn & Saskia Brand-Gruwel

III-25   "Look who's reading now!" - Evaluating the benefit of interactive eye tracking in chat
Christian Schlösser, Carsten Friedrich, Linda Cedli & Andrea Kienle

III-26   Using eye-tracking techniques to explore students' reading behaviors when using e-books with different role-playing mechanisms
Gloria Yi-Ming Kao, Xin-Zhi Chiang & Tom Foulsham

III-27   What does simultaneous eye tracking of two people tell us about the social interaction and social presence of others? – A recurrence analysis
Seiya Kamiya, Haruka Nakamura & Takako Yoshida

III-28   Teacher monitoring pair and group work in English as a foreign language lessons: insights from an eye-tracking study
Eva Minarikova, Zuzana Smidekova & Miroslav Janik

Visual processing in the real world

III-41   No link between eye movements and reported eating behaviour in a non-clinical population
Frouke Hermens & Leanne Caie

III-42   Using Eye Tracking to Evaluate Survey Questions
Cornelia E. Neuert

III-43   Identifying problems in translation from scratch and post-editing with keylogging and eyetracking data
Jean Nitzke

III-44   Evaluating the Comprehensibility of Graphical Business Process Models – An Eye Tracking Study
Michael Zimoch, Rüdiger Pryss, Thomas Probst, Winfried Schlee, Georg Layher, Heiko Neumann & Manfred Reichert

III-45   Eye movements while perceiving images of natural and built environments
Jan Petružálek, Denis Šefara, Marek Franěk & Jiří Cabal

III-46   ~~Eye movements are linked to sexual preference in a real world preferential looking paradigm~~
~~Frouke Hermens & Oliver Baldry~~
moved to II-56

III-46   Lab - Field Comparisons on Intra-Subject Variability of Eye Movements
Divya P. Seernani, Holger Hill, Chara Ioannou, Nadine Penkalla, Giuseppe Boccignone, Tom Foulsham, Christian Fleischhaker, Monica Biscaldi, Ulrich Ebner-Priemer & Christoph Klein

Language and Cognition

III-47   Gaze-speech coordination when listening to L1 and L2 speech
Agnieszka Konopka, Emily Lawrence & Sara Spotorno

III-48   When tones constrain segmental activation-competition in Chinese spoken word recognition: evidence from eye movements
Chung-I Erica Su, Guan-Huei Li & Jie-Li Tsai

III-49   Reading Music. How Tonality and Notation Influence Music Reading Experts' Eye Movements and Information Processing.
Lucas Lörch, Benedict Fehringer & Stefan Münzer

III-50   Characteristics of sight-reading performance of pianists depending on texture of musical pieces
Leonid V. Tereshchenko, Lyubov' A. Boyko, Dar'ya K. Ivanchenko, Galina V. Zadneprovskaya & Alexander V. Latanov

III-64   Cognitive strategies for solving graphically presented chemical tasks
          Yulia Ishmuratova & Irina Blinnikova

III-64a   How does vision influences voice and speech production
          Steffi Hofer

Reading: word-level processing

III-65   The availability of low spatial frequency information affects the effect of word
          predictability
          Stefan Hawelka & Tim Jordan

III-66   Cross-Frequency Coupling: Correlates of Predictability in Natural Reading
          *Nicole A. Himmelstoß, Sarah Schuster, Lorenzo Vignali, Stefan Hawelka, Florian
          Hutzler & Rosalyn Moran*

III-67   Predictability effects and preview processing for one- and two- character word in
          Chinese reading
          Lei Cui, Jue Wang, Huizhong Zhao & Simon Liversedge

III-68   Reading words in context: Effects of predictability in children's and adults' eye
          movements
          Simon Tiffin-Richards & Sascha Schroeder

III-69   The two sides of prediction error in reading: on the relationship between eye
          movements and the N400 in sentence processing
          Franziska Kretzschmar & Phillip M. Alday

III-70   Understanding word predictability using Natural Language Processing algorithms
          *Bruno Bianchi, Gastón B. Monzón, Diego F. Slezak, Luciana Ferrer, Juan E.
          Kamienkowski & Diego E. Shalóm*

III-71   Working memory capacity affects eye movement behavior during Chinese reading
          Xingshan Li &Ya Lou

~~III-72   Reading and searching in Chinese: The role of lexical processing~~
          ~~Sarah J. White, Xiaotong Wang, Li Hua Zhang & Xue Sui~~
          moved to I-40

III-73   Orthographic and Root Frequency Effects in Arabic: Evidence from Eye Movements
          and Lexical Decision
          Ehab W. Hermena, Simon P. Liversedge, Sana Bouamama & Denis Drieghe

III-74   Information Acquisition from Left of the Current Fixation: Evidence from Chinese
          Reading
          Lin Li, Xue Sui & Ralph Radach

III-75   Interword spacing effect on Chinese developmental dyslexia: A comparison in oral and silent sentence reading
Mingzhe Zhang, Ke Tan, Wen Wang & Xuejun Bai

III-76   Transposed Letter Effects in Persian: Evidence from a Semantic Categorization Task
Ehab W. Hermena, Hajar Aman-Key-Yekani, Ascensión Pagán, Mercedes Sheen & Timothy R. Jordani

III-77   Word skipping in Chinese reading: The role of high-frequency preview and syntactic felicity
Chuanli Zang, Hong Du & Simon P. Liversedge

III-78   Semantic Transparency Modulates the Emotional Words in Chinese Reading: Evidence from Eye Movements
Kuo Zhang, Jingxin Wang, Lin Li, Shasha Pan & Simon Liversedge

III-79   General Linear Model to isolate higher-level cognitive components from oculomotor factors in natural reading by using EEG and eye-tracking data coregistration
Anne Guérin Dugué, Benoît Lemaire & Aline Frey

III-80   The use of pupillary response as an indicator of reading task complexity in Irish
Patrick M. Hynes, Ronan G. Reilly & Raúl Cabestrero

III-81   Dynamic properties of return sweep saccades during reading
Rostislav Belyaev, Vladimir Kolesov, Galina Menshikova, Alexander Popov & Victor Ryabenkov

III-82   Taking typography to experimental testing: On the influence of serifs, fonts and justification on eye movements in text reading
Julian Jarosch, Matthias Schlesewsky, Stephan Füssel & Franziska Kretzschmar

III-83   Translation quality assessment: eye movement evidence
Alena Konina & Tatiana Chernigovskaya

III-84   What does the rhino do with the rose? Predicting gaze duration to validate an adult version of the Salzburger Lese-Screening (SLS-B)
Jana Lüdtke, Eva Fröhlich & Arthur M. Jacobs