



# Programme

**18<sup>th</sup> European Conference on Eye Movements**  
August 16-21, 2015 | University of Vienna, Austria



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**ECEM 2015**

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**Programme**  
**of the 18<sup>th</sup> European Conference**  
**on Eye Movements**

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Edited by Ulrich Ansorge, Thomas Ditye,  
Arnd Florack, and Helmut Leder

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August 16<sup>th</sup> to 21<sup>st</sup>, 2015

Vienna, Austria

— online version, updated August 14, 2015—

### About the ECEM Programme Cover Image

The background of the front cover image depicts a ceiling painting of the Main Ceremonial Chamber (Großer Festsaal) of the University of Vienna. You will see it when you look up during ECEM 2015's poster sessions.

The painting is called "The Triumph of Light over Darkness". It was created by Franz Matsch. In 1894, the Ministry of Education commissioned Matsch – together with Gustav Klimt – to create a set of paintings representing the different faculties. Klimt was commissioned to paint Medicine, Jurisprudence and Philosophy, while Matsch was assigned Theology. Klimt's faculty paintings faced severe criticism. They were considered to be too avant-garde and incompatible with a more conservative tradition. Klimt ultimately withdrew his works, and they were destroyed by fire in 1945.

The photography of Matsch's painting is used with kind permission of the University of Vienna. A heatmap of artificial data in the shape of the ECEM logo has been superimposed.

Idea and realization: Christian Valuch, University of Vienna, 2015.

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## Foreword

### Welcome Address of the Rectorate

It is my honour and pleasure to welcome the participants of this year's ECEM at the University of Vienna. Since this conference was first hosted by the University of Bern, Switzerland and organized by R. Groner in 1981 it has developed into a major event of international importance in the field of eye movement research. This year we are expecting 600 participants from all over the world. With its interdisciplinary setting, the conference fits well into the research profile of the University of Vienna, a university with not only more than 90.000 students, but also with an exceptionally wide range of disciplines. We certainly hope that you will enjoy your time in Vienna and join in some of our events organized on the occasion of the 650<sup>th</sup> anniversary of our university.

As the oldest university in the now German speaking world, the University of Vienna decided to use the year of its 650<sup>th</sup> anniversary to concentrate on communicating to the public how much universities have contributed to solving all kinds of societal problems. We argue that both fundamental and applied research can intentionally or unintentionally help detecting and solving problems of major relevance for the well-being of humankind and that therefore universities should be autonomous in deciding on their research profiles.

The field of eye tracking research is a strong research field at the University of Vienna. We very much appreciate that the colleagues in this field were asked to organize the 18<sup>th</sup> European Conference on Eye Movements and thank the organizers, sponsors and supporters for everything they have done to make this possible.

Univ.-Prof. Dr. Susanne Weigelin-Schwiedrzik  
Vice-Rector for Research and Career Development of the  
University of Vienna

## Welcome Address of the Dean

Welcome!

On behalf of the Faculty of Psychology of the University of Vienna, I am delighted to welcome you all to the 18<sup>th</sup> European Conference on Eye Movements. Indeed the University of Vienna is proud to host the world's largest conference on eye movements in the premises of the traditional main building of the university in downtown Vienna.

*In the beginning was the eye*, the cover track of Bady Mink's award winning Cannes film of 2003, might fit quite well as the overall motto of this year's ECEM. Indeed, the scientific programme put together by the conference organizers, Ulrich Ansorge, Thomas Ditye, Arnd Florack, and Helmut Leder reflects quite well the eyes' many functions, and their relations to cognition. Though we seem to understand the universality of various visual processes already very well, we are still eager to learn more about the role of this universality when it comes to imagining the future and to figuring out innovative next steps in our own research. The conference will definitely offer a manifold of opportunities with significant exchanges and essential debates, thus creating spaces for generating new ideas and new gazes promoting next research outcomes. Finally, during this year's ECEM all delegates are very much encouraged to reflect on ways and opportunities to transfer the research and the findings presented here to new areas of research, thus helping to ensure the development of more sustainable societies.

Germain Weber  
Dean  
Faculty of Psychology  
University of Vienna



## Welcome Address of the Organizers

A warm welcome to the ECEM 2015 in Vienna!

As in previous years, we are looking forward to an exciting conference, based on an excellent scientific programme, and with contributions that cover a broad range of eye-movement research topics. This is in keeping with Vienna's history in empirical and theoretical sciences. As you might know, the city has a long-lasting tradition in academia and associated fields. For example, Ernst Mach, Karl Bühler, Karl Popper, or Sigmund Exner – iconic figures that had a strong impact on academia –, all lived and worked in Vienna.

Like academia in Vienna, the ECEM series has its traditions and history. Over the years, the ECEM has changed in many ways. The fusions of basic and applied sciences and of mind and brain sciences continue to reshape its topics and contents. During your stay in Vienna, you will find evidence of these changes. Despite these changes, and faithful to its long-standing traditions, Vienna's ECEM continues to be a prime opportunity for young researchers to present a talk. The organizers have offered participants as much space as possible for their requested oral presentations.

ECEM is committed to provide a plenum that fosters exchange among junior and senior scientists. To uphold this principle we made an effort to keep the conference fees low. This was only possible because of our sponsors' generous support and the hours of work invested by our Scientific Board and voluntary assistants. It is impossible to name them all, but we are particularly grateful for the financial support from the University of Vienna, the Vienna Convention Bureau, the City of Vienna, the Town House of Vienna, SR Research, SMI, Tobii, Mangold, VPixx, Interactive Minds, Cambridge Research Systems, and Eye Tracking Inc.

Despite ECEM's reasonable conference fees, we offer you seven keynote lectures of the highest quality. On Sunday, Peter König (Osnabrück) will present his latest work on the connection between eye movements and cognition. On Monday, John K. Tsotsos (Toronto) will explain the implications of his ground-breaking STAR (Selective Tuning Attentive Reference Model) model for eye movement control. On Tuesday, Françoise Vitu (Marseille) will give her evening lecture on the interplay of visual attention and eye movements, and already before lunch, we will have the pleasure of enjoying Robin Walkers' (London) presentation on his research concerned with the initiation of saccades. Wednesday will be covered by Jukka Hyönä (Turku) who will be talking about the attentional span in reading, while on Thursday, Laurent Itti (Los Angeles) is going to present the latest developments in the modeling of visual attention in dynamic environments. On Friday, Tirin Moore (Stanford) will conclude this year's ECEM series of keynote lectures with his presentation on physiological mechanisms of gaze control and how they relate to visual attention and perception.

With the exception of Wednesday where the afternoon is free for informal discussions with your colleagues, we will also offer two coffee breaks per day, one in the late morning – around 10:30 am – and a second one in the afternoon. In the remaining breaks, we recommend that you make use of the cafeteria located in the basement of the main building of the University (opposite to the Audimax), or that you simply enjoy meeting friends and colleagues in one of the traditional cafés for which Vienna is famous.

We would like to conclude by looking ahead to ECEM 2015: When we read the abstracts, we were truly amazed by the quality and diversity of the submissions. We are genuinely convinced that we will all enjoy brilliant presentations and discussions over the following five days. We believe that eye movement research in the year 2015 is a rich and inspiring field. In brief, we hope that you – the people who make the ECEM series such a success – have an enjoyable time at this year's ECEM in Vienna!

Ulrich Ansorge, Thomas Ditye, Arnd Florack, and Helmut Leder

## About ECEM

In the early 1980s, under the initiative of Rudolf Groner (Bern), Dieter Heller (at that time in Bayreuth) and Henk Breimer (Tilburg), a transdisciplinary network was founded under the informal name of "European Group of Scientists active in Eye Movement Research." It was joined by numerous scientists from various research areas, all using eye movement registration as a research tool and developing models based on oculomotor data over a wide range of phenomena, from the neurophysiological to the perceptual and the cognitive level. The group's goals include facilitating the exchange of information about current research, equipment, and software, and to organize a conference every two years at a different location around Europe.

**ECEM 1** 1981, September 16-19, Bern, Switzerland

**ECEM 2** 1983, September 19-23, Nottingham, UK

**ECEM 3** 1985, September 24-27, Dourdan (Paris), France

**ECEM 4** 1987, September 21 - 24, Göttingen, Germany

**ECEM 5** 1989, September 10-13, Pavia, Italy

**ECEM 6** 1991, September 15-18, Leuven, Belgium

**ECEM 7** 1993, August 31-September 3, Durham, UK

**ECEM 8** 1995, September 6-9, Derby, UK

**ECEM 9** 1997, September 23-26, Ulm, Germany

**ECEM 10** 1999, September 23-25, Utrecht, the Netherlands

**ECEM 11** 2001, August 22-25, Turku, Finland

**ECEM 12** 2003, August 20-24, Dundee, Scotland

**ECEM 13** 2005, August 14-18, Bern, Switzerland

**ECEM 14** 2007, August 19-23, Potsdam, Germany

**ECEM 15** 2009, August 23-28, Southampton, UK

**ECEM 16** 2011, August 21-25, Marseille, France

**ECEM 17** 2013, August 11-16, Lund, Sweden

# General Information

## Organizers

### Host

Faculty of Psychology, University of Vienna, Austria

### Co-Chairs of Organizing Committee

Ulrich Ansorge, Thomas Ditye, Arnd Florack, Helmut Leder

### Organizing Committee

Diane Baier, Marie-Jose Bedi, Shelley Buchinger, Isabella Fuchs-Leitner, Florian Goller, Christoph Huber-Huber, Tobias Schöberl, Maximilian Stein, Christian Valuch, Hanna Weichselbaum

### Support Team

We would like to thank our student assistants, graduate students, and undergraduate students who are available throughout the conference to answer questions, solve unexpected problems and generally make sure that things run smoothly.

During the conference, you can also call on the support team for your assistance. Support team members will be wearing blue ECEM t-shirts.

## Conference Venue

The historic main building of the University of Vienna, located on Ringstraße, will serve as conference venue. The University of Vienna is the oldest university in the German-speaking world and one of the largest in Central Europe.

The symposia and thematic sessions take place in the left wing of the main building. Most rooms are located on the 1<sup>st</sup> floor. The four poster sessions are held in the main ceremonial chamber on the 1<sup>st</sup> floor. The seven keynote lectures as well as the official welcome address are held in the Audimax (Auditorium Maximum) in the basement of the right wing of the main building (see p. 20 for maps).

## Barrier-free Access

All rooms are accessible barrier-free. The main access to HS 7, however, is via staircase number 7. For barrier-free access to HS 7 you have to take the elevator in yard 3 (German “Hof III”) and enter HS 7 through the door from the raised ground floor (German “Hochparterre”). Please contact the conference desk or conference staff for assistance in finding the barrier-free access to HS 7.

## Registration and Conference Office

The conference office can be found on the 1<sup>st</sup> floor, on your way to the ceremonial chamber. It is open on Monday from 8.00 am, and on Tuesday, Wednesday, Thursday, and Friday from 8.30 am. It will close with the end of the last session on each day, except for Wednesday, when it will close after the lunch break (before the free afternoon), and on Tuesday when

## General Information

it will close after the last session and before the evening keynote. You can also reach the conference office via phone: +43 680 242 61 51.

On Sunday, the first day of the conference, the conference office will be closed. On this day, please register in the entry hall of the main building of the University from 4.00 to 8.00 pm. On all other days please register at the conference office.

## Conference Name Badge

Participants are kindly asked to wear the conference badge at all times during the conference. It entitles them to participate in all activities of the conference. Participants who booked the conference dinner will find a voucher in their conference bag. Please make sure to take your voucher to the Conference Dinner where it will be collected by the staff of the restaurant. Please also make sure to wear your name badge at the dinner. It makes conversation so much easier.

## Certificate of Attendance

A certificate of attendance is enclosed with the conference documents that are handed out at the registration desk.

## Online Version of the Programme

The most up-to-date version of the programme for ECEM 2015 is available at:

<https://www.conftool.pro/ecem2015/sessions.php>

or via the ECEM app (see p. 16).

## WiFi Internet Access

The University of Vienna provides free wireless internet access. You can use *eduroam* (encrypted, recommended), if your home institution participates in the eduroam project (<http://www.eduroam.org>).

To connect via eduroam<sup>1</sup>

1. switch on your mobile device and its wireless connection,
2. connect to the wireless network with SSID *eduroam*,
3. on request enter your *username@institution* (e.g., *mayersa1@univie.ac.at*) and password from your home institution,
4. and accept the eduroam certificate.

If the account details from your home institution do not work with the eduroam network, you can use the unique user name and password of the internet voucher provided in your conference bag to connect to eduroam.

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<sup>1</sup> More detailed instructions about how to connect to the *eduroam* network are available at: <https://gid.univie.ac.at/en/services/for-students/networks-access/wlan-eduroam/>

## Printing Service

At the conference office, it will also be possible to have printed single pages black/white A4 (e.g. boarding pass). Larger documents can be printed in the event management offices of the university (German "Veranstaltungsmanagement") and paid in cash or by debit card.

## T-shirts

Student assistants/technical support will be wearing blue ECEM t-shirts, organizers/help-desk staff will be wearing grey ECEM t-shirts.

A few black ECEM t-shirts can be purchased at the help desk.

## Coffee Breaks

Coffee, tea, soft drinks and biscuits will be served in the Small Ceremonial Chamber (Kleiner Festsaal) and in the Main Ceremonial Chamber (Großer Festsaal) in the main building during the official coffee break times and poster sessions.

At other hours, coffee, refreshments and small snacks can be purchased in the cafeteria near the Audimax in the basement of the right wing of the main building. If the weather is fine, the open air café in the arcaded courtyard of the main building might be particularly attractive (opening hours Mon-Fri 9.00 am to 4 pm, closed Sat & Sun). See p. 20 for maps.

## Lunch

Lunch is included in the registration fee and will be provided at the conference venue.

## Smoking

Due to the non-smoking policy in public buildings, smoking is prohibited at the conference venue. There are some smoking areas in the arcade court of the main building.

## Meeting of the ECEM Board

The ECEM board meets on Tuesday, August 18<sup>th</sup>, ~~12:45~~ 12.30 – 13:20 pm, in the *Visitors Room* (see p. 22).

## Practical Information

### Important Phone Numbers

Emergency number	112
Fire brigade	122
Police	133
Ambulance	144
Medical service	141
ECEM 2015 conference office	+43 680 242 61 51

### Medical Service

The university's emergency medical service is located in the main building of the University of Vienna. In case of an emergency, please contact the conference staff.

### Pharmacy

The nearest pharmacy is located on Universitätsstraße 10 (open: Mon-Fri 8.00 am – 6.00 pm, Sat 8.00 am – noon). The same opening times apply to most pharmacies in Vienna. Pharmacies take it in turns to open on Sundays and operate a night service. For telephone information about the 24-hour pharmacy standby service call +43 1 1455.

### Transportation

The best way to discover Vienna is by public transport or bike. The public transport system comprises a dense network of trams, buses, underground trains and trains.

The following tickets are available:

Single-ride ticket	€ 2.20
Shopping ticket (8am - 8pm)	€ 6.10 except on Sunday
24-hour ticket	€ 7.60
48-hour ticket	€ 13.30
72-hour ticket	€ 16.50
One week ticket	€ 16.20 valid from Monday 0am to following Monday 9am
Vienna card (48h)	€ 18.90 reduced rates for guided tours, restaurants...
Vienna card (72h)	€ 21.90 reduced rates for guided tours, restaurants...

Tickets are available at Vienna Transport sales counters, vending machines at tube stations and at tobacconists (their signs read *Trafik*). The Vienna card is available in hotels and at the tourist information centre on Albertinaplatz (open daily from 9.00 am to 7.00 pm) and the tourist information point at the airport (open daily from 6.00 am to 11.00 pm), as well as sales and information points of the Vienna Lines (e.g. Schottentor, Stephansplatz, Karlsplatz, Westbahnhof, Landstraße/Wien Mitte) or by credit card on tel. +43-1-798 44 00-148.

## CityBike Vienna

Similar to other larger cities, Vienna features a bike network. After registering at one of the numerous bike stations you can take a bike for free (<1h) or for little money (>1h) at one station and return it at any other bike station within the city. To register you need a credit or debit card and you have to create a user account, which also requires entering your name and address. More information can be found here:

<http://www.citybikewien.at/>

The default language of the web site is German. The button switching to English is barely visible and located in the upper left above the website menu.

For an interactive map of all CityBike stations see this link:

[http://www.citybikewien.at/main.php?lang\\_id=2&content\\_id=1000151](http://www.citybikewien.at/main.php?lang_id=2&content_id=1000151)

## Taxi

The main taxi companies in Vienna can be reached at: +43 1 31300 or +43 1 40100 or +43 1 60160. There is a taxi stand across the street from the main building of the university in Schottengasse.

## Prices and Tips

Menu prices include service and taxes. In restaurants, a tip of approximately 5-10% is appreciated.

## Tourist Info

The nearest tourist info point is located in the city centre on Albertinaplatz (at the corner of Maysedergasse), and is open daily from 9.00 am to 7.00 pm. For more information about sightseeing in Vienna, please refer to the Vienna tourism website: <http://www.wien.info/en>, or [http://www.tripadvisor.com/Travel\\_Guide-g190454-Vienna.html](http://www.tripadvisor.com/Travel_Guide-g190454-Vienna.html).

## The ECEM App

For your convenience we provide an ECEM app including the programme, abstracts, floor plans, maps of the area, and further useful information. With the app, you can also create your personal schedule (including reminders) and take notes.

The app is available for Android, Apple, and Windows phones. It can also be used from your desktop computer. To download/access the app, please follow the instructions below. Please note: You will need an internet connection for downloading/accessing the app.

### Android/iOS (iPhone, iPad) users

Download and open the Guidebook app from the Play Store (Android) or the Apple App Store (iOS). You can also use the provided QR code labelled Guidebook.

Open the Guidebook app and type ECEM 2015 into the search field. Alternatively, you can scan the provided QR code labelled ECEM 2015 via the scan option on the right end of the search field.

Tap *Get this Guide* to download the ECEM app. All content of the ECEM app is stored locally on your phone, where you can access it without an active internet connection. However, if you are connected to the internet, the latest updates and programme changes will be loaded automatically.

### Desktop, Windows phone, Blackberry users

On your phone's or computer's web browser (Chrome, Internet Explorer, etc.), type in [guidebook.com/browse/](http://guidebook.com/browse/)

Type ECEM 2015 into the search field (usually displayed at the upper right) and press enter. When using a phone, you may be able to download the app. Otherwise you can only access the app with an active internet connection via your web browser.



Get Guidebook



Within Guidebook > Get  
ECEM App

**For any questions or support see us at the Help Desk!**



# Information for Presenters

## Keith Rayner Memorial Award

It is a pleasure to announce the *Keith Rayner Memorial Award*, a prize that will be awarded in memory of Keith Rayner and his contribution to the field of eye movements and cognitive psychology. The prize will be affiliated with the ECEM conference and will be awarded to the best student (poster or spoken) presentation at the conference as decided by the adjudication committee.

Keith was a very important figure in the field of eye movements and cognitive psychology. He made a substantial and significant scientific contribution, and he viewed ECEM as a very important conference. Keith was also an amazing mentor to so many young investigators. This award is about honouring both the contribution that Keith has made, as well as Keith as a person, and it is hoped that in a small way this award can help continue his legacy. It is also hoped that the award will encourage participation by graduate students in future ECEM conferences.

### How to apply

If you are a student and you are presenting a poster or a paper at ECEM 2015 (i.e., you are the primary author on the presentation and you will deliver the presentation), then you are eligible for consideration for the award.

The adjudication process for the award will be as follows. Any person wishing to be considered for the award will be required to send a concise abstract (100 words or less excluding the title), and a statement declaring that the presenter will be a student at the time of the presentation, to the following email address: [Rayneraward@soton.ac.uk](mailto:Rayneraward@soton.ac.uk). The word limit for the concise abstracts will be strictly observed and any abstract longer than 100 words will not be considered. All abstracts must be submitted to this email address one week before the conference. Any abstracts submitted after this point will not be considered.

All the eligible abstracts will be evaluated by the adjudication committee comprised of well-respected colleagues who will attend the conference. On the basis of the abstracts, members of the adjudication committee will attend a number of talks that are likely candidates for the award, and after the conference a committee decision will be formulated and a winner announced via an email circulated to all the conference delegates. Thus, decisions will be made according to a two-stage process (shortlist on the basis of concise abstracts, followed by a final decision on the basis of the quality of the shortlisted presentations). The award will take the form of a monetary prize.

If you are eligible for the Keith Rayner Award, and you would like to be considered, you are strongly encouraged to submit an abstract. If you have any questions regarding the award, or the decision process, please do not hesitate to contact Simon P. Liversedge via [s.p.liversedge@soton.ac.uk](mailto:s.p.liversedge@soton.ac.uk).

## Talks

A time slot of 20 minutes is allocated to each talk (including discussion). Presentations should last 15 minutes followed by 5 minutes of questions and discussion. Computers for PowerPoint or PDF presentations are available in all lecture rooms. If you prepare a PowerPoint presentation, please make sure that it is compatible with **Microsoft PowerPoint 2011 for Mac OS** or **PowerPoint 2010 for Windows**. It is recommended to use standard fonts for

preparing the presentations to minimize the risk of distorted layout. As a backup, please also bring a **PDF** version of the presentation. If you intend to present movies, do not only include them in a PowerPoint presentation but also provide the individual movie files. If you think that your presentation might be susceptible to compatibility issues, you are welcome to check your presentation in the room where it will be given even before the day of your talk. If you need any particular additional equipment, please let us know in advance by contacting [ecem2015@univie.ac.at](mailto:ecem2015@univie.ac.at).

Please make sure to transfer your presentation files to the respective computer in the lecture room in the morning or in the break before your session using a USB flash drive. Ask the technical assistants in the lecture rooms for help. They will be present 20 minutes before each session and during the session.

## Posters

Poster presenters are asked to prepare their posters in **ISO A0 portrait format (width 841 mm × height 1189 mm)**.

There will be four poster sessions, one on each day of the conference except Wednesday. The sessions take place in the Main Ceremonial Chamber (Großer Festsaal) from 3.00 pm to 5.00 pm on Monday, Tuesday, and Thursday, and from 1.30 pm to 3.30 pm on Friday.

In the programme booklet, a number will be printed next to each poster entry. This number will denote your poster board. **Please put your poster on the according poster board in the morning of the corresponding day**, thus making it possible for interested colleagues to view them all day. During the actual poster sessions, the presenting author is expected to be present at the poster. Material for mounting the posters to the boards will be available in the Poster hall.

We also recommend preparation of handouts (miniature versions of the poster) or sheets of paper where interested colleagues can leave their e-mail address in order to receive a PDF version of the poster after the conference.

## Chairs

Symposium convenors and session chairs should be present in the room of presentations at least 10 minutes prior to the start and for the full duration of the chaired session. As a chair, please meet the presenters before their presentations start and make sure that all presenters have uploaded their presentations on the presenting laptop prior to the start of the session (at least one student helper will provide assistance for the duration of the full chaired session). Please also make sure that the speakers stick to their allotted times. You can use the numbers printed at the end of the programme booklet to notify the presenters of their remaining time (5, 1, and 0 minutes). After the talks, please moderate the discussion while keeping an eye on the start time of the next presenter.

Most importantly, take care that the talks start at the precise times as according to the published programme. If a talk is cancelled with too short prior notice (e.g. if a speaker simply does not show up), please wait until the official starting time of the next presentation. This will allow possibly interested participants to join the audience in time for each talk. As a consequence, the order of the talks of your chaired session should also not be changed as compared to the published programme.

# Special Events

## Keynote Lectures

We are very pleased to welcome seven outstanding keynote speakers to this year's ECEM:

- Jukka Hyöinä (University of Turku, Finland)
- Laurent Itti (University of Southern California, US)
- Peter König (University of Osnabrück, Germany)
- Tirin Moore (Stanford University, US)
- John K. Tsotsos (York University, Toronto, Canada)
- Françoise Vitu (CNRS & Aix-Marseille Université, France)
- Robin Walker (Royal Holloway, UK)

Keynote lectures will take place in the Audimax (Auditorium Maximum) on each conference day, starting at 6.30 pm on Sunday, 11.00 am on Monday to Thursday with the additional Tuesday evening keynote at 7.15 pm, and 11.30 am on Friday.

## Welcome Reception

On the first day of the conference, Sunday, August 16<sup>th</sup>, after the keynote lecture, the ECEM will welcome all participants in the Arcaded Courtyard of the main building of the University of Vienna with a Welcome Reception including drinks and a full dinner.

In the arcades, 154 busts and insignia commemorate of renowned research scholars of the university. During the conference, the courtyard will serve as a place for recreation and communication in between the sessions.

## Conference Dinner

The ECEM conference dinner will take place Wednesday evening, August 19<sup>th</sup>, at 7 pm (doors open 6.45 pm). The conference dinner is a major event at every conference and we hope it will be one of the highlights of your visit. Kindly note that you have to buy a ticket to join us for the conference dinner. If you did not buy your ticket when registering for the conference, you can ask at the conference desk whether there are still tickets available. (Tickets are € 75,- for regular participants, € 55,- for students and include food, wine, mineral water, and musical entertainment. For additional beverages, e.g. coca-cola 0.33l for 3.30 €, beer 0,33 l for 3,70 €, you will have to pay extra. These beverages can be bought at a bar at the venue.)

Food will be served by the Wiener Rathauskeller, one of Vienna's finest restaurants. The conference dinner will take place in the inner court of the Town Hall. Since its completion in 1883, Vienna's Rathaus, or Town Hall, has been the headquarters of the city and provincial government.

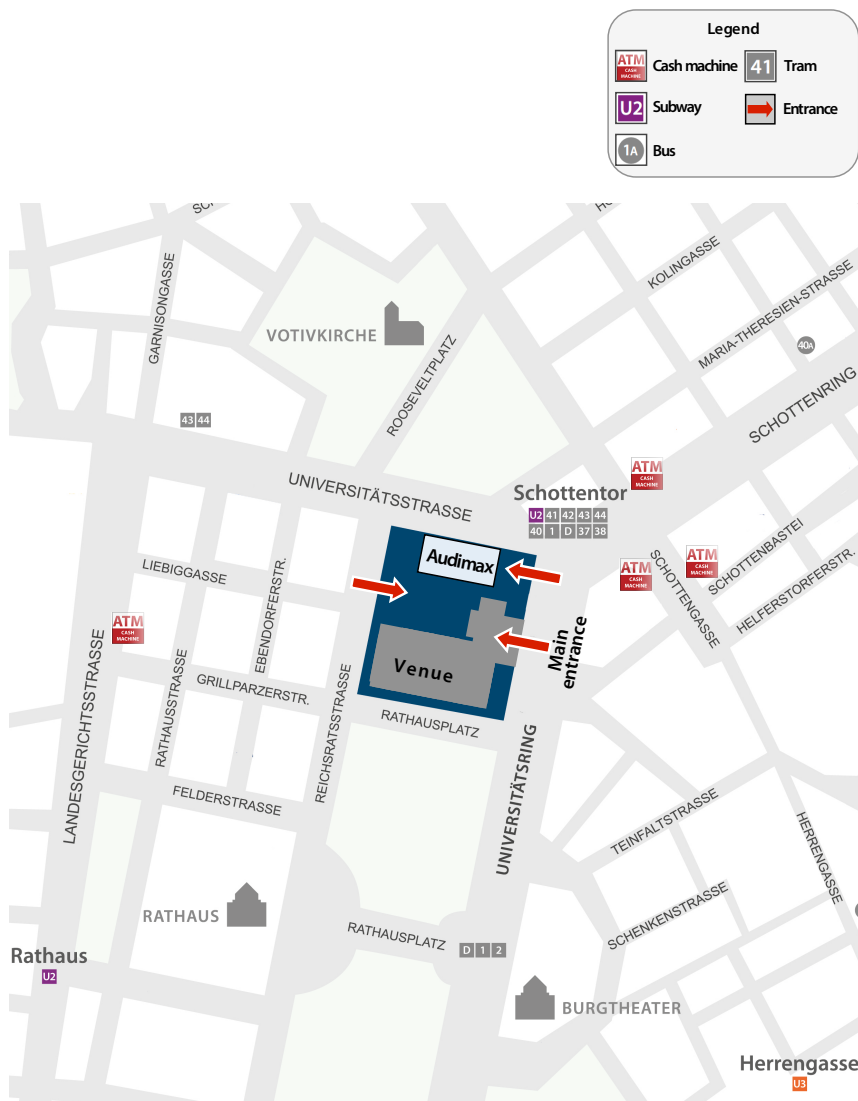
To get to the Conference Dinner, you have to access the Town Hall from the Lichtenfelsgasse (see p. 20). At the entrance, you will be asked to show your Dinner invitation without which you won't be let in. Please also bring your name badge to the dinner because it makes conversation so much easier.

## Maps

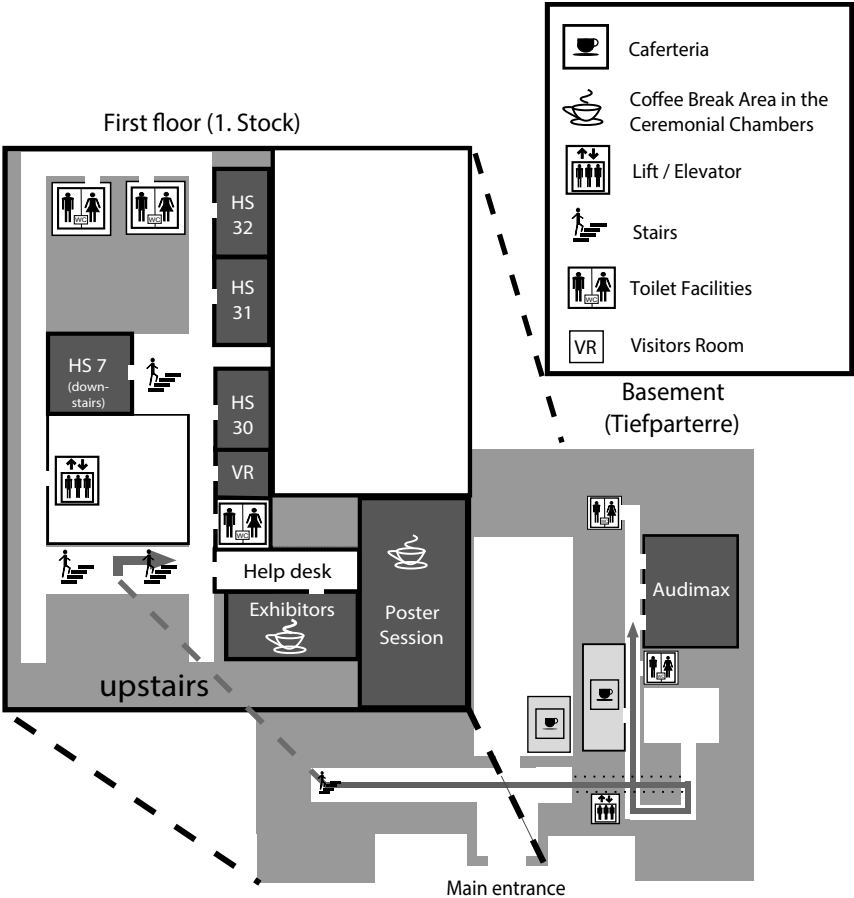
### From the Venue to the Dinner



## Surroundings



Conference Venue



# Programme at a Glance

Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Time
8.50 - 10.30		Talks	Talks	Talks	Talks	Talks	8.50 - 10.30
10.30 - 11.00				Coffee break			10.30 - 11.00
11.00 - 12.00		Keynote Tsotsos	Keynote Walker	Keynote Hyölä	Keynote Itti	Goodbye Keynote Moore	11.00 - 11.30
12.00 - 1.20			Lunch break	Lunch break		Lunch break	11.30 - 12.30
1.20 - 3.00		Talks	Talks		Talks	Posters & Coffee break	12.30 - 1.30
3.00 - 4.00		ProgComp & Posters & Coffee break	Posters & Coffee break	Free after- noon	Posters & Coffee break		
4.00 - 5.00	Registration open						
	6.00 Welcome Keynote König	Talks	Talks		Talks		5.00 - 6.40
	7.30 Reception		7.15 Keynote Vitu	7.00 Dinner			

# Programme Overview

Sunday		
Time	Audimax	Arcaded Courtyard
6.00 pm - 6.30 pm	Welcome address	
6.30 pm - 7.30 pm	Keynote: Eye movements as a central part of cognitive processes <i>Peter König</i>	
7.30 pm	Welcome reception	
* Symposium		



## Monday

Time	HS 7	HS 30	HS 31	HS 32
8.50 am - 10.30 am	Reading: Individual differences <i>V. Kuperman</i>	Integrating eye movements in research on expertise and skill acquisition <i>H. Jarodzka</i>	Eye behavior: Perceptual effects and cognitive influences <i>M. Wexler</i>	Eye movements: Smooth pursuit, manual tracking, control <i>J. N. van der Geest</i>
10.30 am - 11.00 am	<b>Coffee break</b> (Main Ceremonial Chamber)			
11.00 am - 12.00 pm	<b>Keynote</b> (Audimax): STAR: The Selective Tuning Attentive Reference Model <i>John K. Tsotsos</i>			
12.00 pm - 1.20 pm	<b>Lunch break</b> (Main Ceremonial Chamber)			
1.20 pm - 3.00 pm	Reading: General I <i>R. Kliegl</i>	Eye movements and reading: Expertise <i>E. Reingold</i>	Eye movements: Social influences <i>L. Paletta</i>	Microsaccades <i>S. Yuval-Greenberg</i>
3.00 pm - 5.00 pm	<b>Posters &amp; Coffee break</b> (Main Ceremonial Chamber)			
5.00 pm - 6.40 / 7.00 pm	Reading: Chinese <i>X. Li</i>	Visual search <i>T. Menner</i>	Eye movements and reading: Clinical <i>O. Agamemnoni</i>	Eye movements: Conflict and inhibition <i>W. J. MacInnes</i>

\* Symposium

Tuesday

Time	HS 7	HS 30	HS 31	HS 32
8.50/9.10 am - 10.30 am	What the eyes tell us about bilingual language processing* <i>D. A. Titone</i>	Natural scene perception and eye-tracking <i>W. Bischof</i>	Saccades I <i>R. Förster</i>	Eye movements and reading: Influences of higher cognition <i>M. A. Lindner</i>
10.30 am - 11.00 am	Coffee break (Main Ceremonial Chamber)			
11.00 am - 12.00 pm	Keynote (Audimax): Saccadic distractor effects: The when and where of saccade generation <i>Robin Walker</i>			
12.00 pm - 1.20 pm 12.45-1.20 pm - 1.20 pm	Lunch break (Main Ceremonial Chamber)			
1.20 pm - 3.00/3.20 pm	Reading: Development and special populations <i>N. N. Belanger</i>	Neural mechanisms of saliency, attention and orienting* <i>B. J. White</i>	Eye movements: Neurophysiology and neuropsychology <i>S. van der Stigchel</i>	Reading: Dyslexia and aphasia <i>T. Günther</i>
3.00 pm - 5.00 pm	Posters & Coffee break (Main Ceremonial Chamber) SMI Programming Competition Finals (Visitors Room)			
5.00 pm - 6.40 pm	Reading: Influences of context I <i>S. Jainta</i>	Reading: Influences of valence, emotion, and negation <i>R. Filik</i>	Eye movements: Neurophysiology and EEG <i>A. Nikolaev</i>	The COGAIN Eye Data Quality Project* <i>F. B. Mulvey</i>

\* Symposium

## Wednesday

Time	HS 7	HS 30	HS 31	HS 32
8.50 am - 10.30 am	In memory of Keith Rayner* <i>A. W. Inhoff</i>	Eye movements in new media and film <i>G. Y. Kao</i>	Reading: Influences of context II <i>F. Kretzschmar</i>	Saccades and perception <i>A. Schütz</i>
10.30 am - 11.00 am	Coffee break (Main Ceremonial Chamber)			
11.00 am - 12.00 pm	Keynote (Audimax): Fluctuations in attentional span during reading <i>Jukka Hyöniä</i>			
12.00 pm - 1.20 pm	Lunch break (Main Ceremonial Chamber)			
7.00 pm	Conference dinner (Town Hall)			

\* Symposium

Thursday

Time	HS 7	HS 30	HS 31	HS 32
8.50 am - 10.30 am	Triple P: Pre-, peri- and post-saccadic perception* <i>S. Born</i>	Reading: General II <i>S. Schroeder</i>	Eye movements and attention <i>A. Belopolsky</i>	Mobile eye-tracking: Tools and findings <i>C. A. Riggs</i>
10.30 am - 11.00 am	Coffee break (Main Ceremonial Chamber)			
11.00 am - 12.00 pm	Keynote (Audimax): Computational modeling of bottom-up and top-down visual attention in complex dynamic environments <i>Laurent Itti</i>			
12.00 pm - 1.20 pm	Lunch break (Main Ceremonial Chamber)			
1.20 pm - 3.00 pm	Development of parafoveal processing during reading acquisition* <i>S. Schroeder</i>	Eye movements and attention in moving images* <i>C. Valuch</i>	Eye movements, attention, and memory <i>D. Lithfield</i>	Eye movements: Faces <i>R. Caldara</i>
3.00 pm - 5.00 pm	Posters & Coffee break (Main Ceremonial Chamber)			
5.00 pm - 6.40 / 7.00 pm	Reading: Parafoveal processing <i>R. Radach</i>	Saccades II <i>J. Theeuwes</i>	Scanpaths, saliency, and fixation memory <i>R. Engbert</i>	Eye-tracking: Issues of measurement <i>I. Hooge</i>

\* Symposium

## Friday

Time	HS 7	HS 30	HS 31	HS 32
8.50 am - 10.30/10.50 am	Eye tracking in visual aesthetics: Perception of art* <i>H. Leder</i>	Investigating deficit theories of dyslexia with naturalistic reading paradigms using eye-movement recordings* <i>B. Gagl</i>	Eye movements: Clinical <i>M. Perea</i>	Eye movements: Applied questions <i>J. P. Hansen</i>
10.30 am - 11.00 am	<b>Coffee break</b> (Main Ceremonial Chamber)			
11.00 am - 11.30 am	<b>Goodbye</b> (Audimax)			
11.30 am - 12.30 pm	<b>Keynote</b> (Audimax): The role of gaze control mechanisms in visual attention and visual perception <i>Tirrin Moore</i>			
12.30 pm - 1.30 pm	<b>Lunch break</b> (Main Ceremonial Chamber)			
1.30 pm - 3.30 pm	<b>Posters &amp; Coffee break</b> (Main Ceremonial Chamber)			

\* Symposium

*Sunday, Keynote, 6.30 pm - 7.30 pm*

**Sunday, Keynote, 6.30 pm - 7.30 pm**

**Audimax**

6.30 pm    Eye movements as a central part of cognitive processes  
*Peter König*

## Monday, Talk Session 1, 8.50 am - 10.30 am

Thematic session

**Reading: Individual differences**

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**HS 7**

Chair: Victor Kuperman

- 8.50 am    Relative importance of text and reader characteristics for eye-movements in reading comprehension  
*Victor Kuperman, Kazunaga Matsuki, Julie A. Van Dyke*
- 9.10 am    Do Chinese readers rely on phonological recoding when comprehending English texts?  
*Ying-Hua Guan, Hsien-Yuan Hsu*
- 9.30 am    Eye movement control in oral vs. silent reading: Evidence from a large sample of very young readers.  
*Christian Vorstius, Young-Suk Kim, Ralph Radach*
- 9.50 am    Individual differences in language skills affect children's eye movement characteristics  
*Lyuba Mancheva, Benoit Lemaire, Anne Guérin-Dugué, Jean Ecalte, Sylviane Valdois*
- 10.10 am   Age of Acquisition Effects in Arabic Reading  
*Sana Bouamama, Simon P. Liversedge, Ehab W. Hermena, Denis Drieghe*

Thematic session

**Integrating eye movements in research on expertise and skill acquisition**

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**HS 30**

Chair: Halszka Jarodzka

- 8.50 am    Effects of Professional Visual Search Experience on Domain-General Visual Search Tasks  
*Laura E. Matzen, Michael J. Haass, Laura A. McNamara, Susan M. Stevens-Adams, Stephanie N. McMichael*
- 9.10 am    Saliency Estimation for Advanced Imaging Scenes Using Pixel Statistics  
*Michael J. Haass, Laura E. Matzen, Laura A. McNamara, Kristina R. Czuchlewski*
- 9.30 am    Challenges in Eyetracking Data Analysis: From the Laboratory to the Wild World of Information  
*Laura A. McNamara, David Stracuzzi, Kristina R. Czuchlewski*
- 9.50 am    Air traffic control: Visual expertise in a dynamic problem solving task  
*Halszka Jarodzka, Paula Gouw, Ludo Van Meeuwen, Saskia Brand-Gruwel*
- 10.10 am   The Influence of Culture and Expertise on Teacher Gaze Patterns  
*Nora Ann McIntyre, Robert M. Klassen*

Monday, Keynote, 11.00 am - 12.00 pm

Thematic session

**Eye behavior: Perceptual effects and cognitive influences**

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**HS 31**

Chair: Mark Wexler

- 8.50 am    The speed-up of perceptual time during blinks  
*Mark Wexler, Marianne Duyck, Thérèse Collins*
- 9.10 am    A common spatial map for Auditory and Visual Targets revealed by  
Landmark-induced positional shifts  
*David Aagten-Murphy, Martin Szinte, Heiner Deubel*
- 9.30 am    Unseen transsaccadic changes induce re-calibration of perceived peripheral  
size  
*Matteo Valsecchi, Karl R. Gegenfurtner*
- 9.50 am    Low-level versus high-level effects on saccadic landing positions on daily-  
life objects  
*Lotje van der Linden, Sebastiaan Mathôt, Françoise Vitu*
- 10.10 am   In search of oculomotor capture during film viewing: implications for the  
balance of top-down and bottom-up control in the saccadic system  
*Stephen John Hinde, Tim J. Smith, Iain D. Gilchrist*

Thematic session

**Eye movements: Smooth pursuit, manual tracking, control**

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**HS 32**

Chair: Jos N van der Geest

- 8.50 am    Properties of human smooth pursuit adaptation  
*Jos N. van der Geest, Berna M. Isik, Maarten A. Frens, Giulietta S. Monasso*
- 9.10 am    Concurrent manual tracking enhances pursuit eye movements  
*Diederick C. Niehorster, Wilfred W.F. Siu, Li Li*
- 9.30 am    The Biometric Identification Based on Eye and Mouse Movement Traits  
*Katarzyna Harezlak, Pawel Kasprowski*
- 9.50 am    Physical causality guides eye movements  
*Marcus Missal, Kim Wende*
- 10.10 am   OpenEyeSim: a biomechanical model for studying oculomotor control  
*Alexander Priamikov, Vikram Narayan, Bertram Shi, Jochen Triesch*

**Monday, Keynote, 11.00 am - 12.00 pm**

**Audimax**

- 11.00 am   STAR: The Selective Tuning Attentive Reference Model  
*John K. Tsotsos*



## Monday, Talk Session 2, 1.20 pm - 3.00 pm

Thematic session

### Reading: General I

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**HS 7**

Chair: Reinhold Kliegl

- 1.20 pm A Joint Analysis of Fixation Locations and Fixation Durations during Reading  
*Reinhold Kliegl*
- 1.40 pm Eye Movements and the Effect of Word Frequency on Display Change Detection during Reading  
*Bernhard Angele, Timothy J. Slattery, Keith Rayner*
- 2.00 pm Word processing during sentence reading: Eye movement behaviour of young and older adult readers  
*Victoria A. McGowan, Kayleigh L. Warrington, Sarah J. White, Kevin B. Paterson*
- 2.20 pm The effect of capitalization on reading in German  
*Dennis Pauly, Guido Nottbusch*
- 2.40 pm An Eye-Movement Study of Comprehension-Based Silent Reading Efficiency Across Grade Levels in U.S. Students  
*Alexandra N. Spichtig, Jeffrey Pascoe, John Ferrara, Angela Zinno, Elias Tousley*

Thematic session

### Eye movements and reading: Expertise

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**HS 30**

Chair: Eyal Reingold

- 1.20 pm The perceptual component of chess expertise: Evidence from eye movements  
*Eyal M. Reingold, Heather Sheridan*
- 1.40 pm The perception of the number line by adults and preschoolers: eye-movements during the teaching process.  
*Anna Shvarts, Anatoly Krichevets*
- 2.00 pm Eye movements during visual search of infrared images  
*Mackenzie G. Glaholt, Grace Sim, Philips Laou*
- 2.20 pm Sight Reading Expertise, Eye Movements and What Happens when you Remove the Bar Lines.  
*Patricia Arthur*
- 2.40 pm Eye movement control during rapid reading: Word recognition and integration  
*Sarah J. White, Kayleigh L. Warrington, Marina Soltan, Victoria A. McGowan, Kevin B. Paterson*

Thematic session

**Eye movements: Social influences**

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**HS 31**

Chair: Lucas Paletta

- 1.20 pm    Attentional Effect of Social Cueing in Orientation Tasks  
*Norah Neuhuber, Lucas Paletta, Michael Schwarz*
- 1.40 pm    Social salience-based prioritization does not transfer to oculomotor visual search.  
*Alisha Siebold, Matthew D. Weaver, Mieke Donk, Wieske van Zoest*
- 2.00 pm    The presence of others: Exploring the effects of a social context on eye movements  
*Manuel Oliva, Diederick C. Niehorster, Halszka Jarodzka, Kenneth Holmqvist*
- 2.20 pm    Eye Movements during Viewing of Simulated Crime Scenes Pictures by Crime Scene Investigators  
*Murat Ozger, Timothy Hodgson, Jose Gonzalez-Rodriguez*
- 2.40 pm    Was it me? Recognition and Interpretation of Static and Dynamic Eye Movement Displays  
*Margot van Wermeskerken, Damien Litchfield, Tamara van Gog*

Thematic session

**Microsaccades**

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**HS 32**

Chair: Shlomit Yuval-Greenberg

- 1.20 pm    Monocular microsaccades reflect eye dominance  
*Josselin Gautier, Harold Bedell*
- 1.40 pm    ~~Revising the link between microsaccade direction and the spatial cueing of attention~~  
*Susann Meyberg, Petra Sinn, Ralf Engbert, Werner Sommer*    CANCELLED
- 2.00 pm    Visual categorization boosts microsaccade rate  
*Yingdi Liu, Junpeng Lao, Nicolas Ruffieux, Françoise Colombo, Sébastien Miellet, Roberto Caldara*
- 2.20 pm    The interdependence of microsaccades and its modulation by the visual context  
*Shlomit Yuval-Greenberg, Roy Amit*
- 2.40 pm    Are microsaccade amplitudes overestimated in modern studies?  
*Richard Andersson, Dan Witzner Hansen, Ignace T. C. Hooge, Marcus Nyström*

## Monday, Posters, 3.00 pm - 5.00 pm

### Main Ceremonial Chamber

#### Cognitive influences

- Mon-1 Assessment of Cognitive Functions using Eye Tracking  
*Sabine Heuer, Melissa Pinke*
- Mon-2 The mechanism of the Einstellung (set) effect: An investigation with eye tracking  
*Mario Graf, Anna Conci, Merim Bilalić*
- Mon-3 Diverging Thoughts, Diverging Eyes?  
*Sonja Walcher, Christof Körner, Mathias Benedek*
- Mon-4 Eye movements as predictors of users' cognitive load with parallel coordinate plots  
*Stefanie Wetzel, Sven Bertel*
- Mon-5 How I speak is what I see – About differences in gaze behaviour between Korean and German speakers  
*Florian Goller, Donghoon Lee, Ulrich Ansorge, Soonja Choi*
- Mon-6 Seeing difficulty in the eyes – metacognitive fluency and eye movements  
*Nina Chrobot, Norbert Schwarz, Tommy Strandvall, Andrzej Falkowski*
- Mon-7 From thinking to speaking: (Eye)tracking the time course of sentence formulation  
*Erica dos Santos Rodrigues, René Forster, Jéssica Barcellos*
- Mon-8 Experimental Methods in Cognitive Linguistics: Cognitive Simulations as Instances of Mental Imagery During Fictive Motion Processing, an Eye-Tracking Study  
*Alena Holubcova*
- Mon-9 The “visual number world”: a new approach to study mental arithmetic  
*Matthias Hartmann, Martin H. Fischer*
- Mon-10 The role of intention in gaze following  
*Ross G. Macdonald, Maria Staudte*
- Mon-11 ~~Some features of perception of media creolized texts~~ CANCELLED  
~~*Elina Bulatova, Olga Lomtadze*~~
- Mon-11 Patterns of L1-L3 and L2-L3 cognate facilitation in multilingual speakers during sentence reading  
*Agnieszka Lijewska* Previously: Friday, Posters, Fri-51
- Mon-12 Give me a cue: Effects of visual complexity and description ambiguity on attention  
*Tim van Marlen, Margot van Wermeskerken, Tamara van Gog*
- Mon-13 Effect of Exogenous Factors on Eye Movement Based Automatic User Identification  
*Yannik T. H. Schelske, Tandra Ghose*
- Mon-14 Applying the eye tracking methodology in healthcare communication research  
*Yuefang Zhou, Gerry Humphris*

Monday, Posters, 3.00 pm - 5.00 pm

### Looking at text and pictures

- Mon-15 Does integration of text and picture information really aid reading comprehension?  
Evidence from eye-movement patterns of six graders  
*Sheng Yao Tai, Yu Min Ku*
- Mon-16 Integration of linguistic and visual information in line graph analysis: an experimental study with undergraduate students  
*Luane Fragoso, Erica do Santos Rodrigues, Renê Forster*
- Mon-17 Aversive gaze during multimedia learning: emotionally charged stimuli and the personalisation effect  
*Sven Bertel, Stefanie Wetzel, Maria Reichelt, Steffi Zander*
- Mon-18 A preliminary study of reading narrative text with illustrations in EFL readers in Taiwan  
*Grace M. Y. Hsieh, Sunny S. J. Lin*
- Mon-19 Effects of textual and audio information on paintings to object perception, attention and gaze-pattern during the observation of paintings.  
*Janos Kaldos*
- Mon-20 How narrative text with illustrations affect reading performance on good and poor EFL junior high readers in Taiwan  
*Grace M. Y. Hsieh, Sunny S. J. Lin*

### Reading

- Mon-21 Looking at a far away mountain in Kendo: eye, head, and body coordination under natural condition  
*Takaaki Kato*
- Mon-22 Do letter migration effects occur between two parafoveal words during reading?  
*Michael G. Cutter, Denis Drieghe, Simon P. Liversedge*
- Mon-23 False positives in standard analyses of eye movements in reading  
*Bernhard Angele, Titus von der Malsburg*
- Mon-24 Effects of irrelevant speech on Chinese sentence reading: An eye-tracking study  
*Guoli Yan, Zhu Meng, Nina Liu, Liyuan He*
- Mon-25 The Effect of Fatigue on Eye Movements and Metaphor Compresion in Reading  
*Ilze Laicane, Jurgis Skilters, Inga Jurcinska, Gunta Krumina*
- Mon-26 The relation between reading skills and eye movements in German-speaking adolescents: A function of reading mode?  
*Magdalena Kriebler, Katrin D. Bartl-Pokorny, Florian B. Pokorny, Christa Einspieler, Peter B. Marschik*
- Mon-27 Eye guidance in Russian: difference in processing nouns vs. verbs  
*Svetlana Alexeeva*
- Mon-28 Children's Cognitive Processes and Learning Strategies for Reading Illustrated Biology Texts: Eye Movement Measurements  
*Yu-Cin Jian*

- Mon-29 The role of morpho-semantic information in processing Russian verbal aspect: Evidence from pupil dilation, fixation durations and reaction times  
*Aki-Juhani Kyröläinen, Vincent Porretta, Juhani Järvikivi*
- Mon-30 Spontaneous re-reading within sentences: The role of previously read words and the importance of word n-1  
*Laura M. T. Lantz, Sarah J. White, Kevin B. Paterson*
- Mon-31 The role of semantic transparency on the processing of English compound words: insights from individual differences  
*Daniel Schmidtko, Julie A. Van Dyke, Victor Kuperman*

### Saccades

- Mon-32 Expectation and saccade latency: Prior probability and number of alternatives  
*Andreas Jarvstad, Casimir J.H. Ludwig, Rafal Bogacz, Iain D. Gilchrist*
- Mon-33 Saccade curvature as a function of movement preparation time in simultaneous and sequential dual-task paradigms  
*Tobias Moehler, Katja Fiehler*
- Mon-34 Adaptive shortening and lengthening of saccade amplitude in 10-41 months-old children  
*Christelle Lemoine-Lardennois, Nadia Alahyane, Coline Tailhefer, Thérèse Collins, Jacqueline Fagard, Karine Doré-Mazars*
- Mon-35 Exploring Attentional Mechanisms in Express Saccade Makers  
*Felicity Denise Angela Wolohan, Paul C. Knox*
- Mon-36 Saccadic preparation vs. covert attention: event related potentials to stimulation at a cued location  
*Rinat Hilo, Shlomit Yuval-Greenberg*
- Mon-37 Saccadic Eye Movement Abnormalities in Children with Epilepsy  
*Judith Fiona Lunn, Tim Donovan, Damien Litchfield, Trevor Crawford, Robert Davies*
- Mon-38 On saccade programming as a function of stimulus complexity: Estimating the population-averaging window for simple shapes, textured discs and natural objects  
*Lotje van der Linden, Gregory Zelinsky, Françoise Vitu*
- Mon-39 The spatio-temporal modulation of saccades in a double-step paradigm  
*Soazig Casteau, Robin Walker*
- Mon-40 Saccade plan cancellation and overlap during free viewing  
*Esther Xiu Wen Wu, Fook-Kee Chua, Shih-Cheng Yen*
- Mon-41 Retinotopic coding of value for saccadic eye movements  
*Alexander C. Schütz, Julia Zimmermann*
- Mon-42 The role of cortical and subcortical regions in modulating exogenous and endogenous control of gaze.  
*Michele Furlan, Andrew T. Smith, Robin Walker*

Monday, Posters, 3.00 pm - 5.00 pm

- Mon-43 Bottom-up or top-down? An MEG approach to disentangle oculomotor selection strategies  
*Davide Paoletti, Wieske van Zoest, Christoph Braun*
- Mon-44 Presaccadic potentials at the experimental scheme with distracters (stimulation of dominant and undominant eye)  
*Victoria Moiseeva, Maria Slavutskaya, Valeriy V. Shulgovskiy, Natalia Fonsova*
- Mon-45 The Price of Saccades  
*Felix Schüller, Vanessa Nunnendorf, Constantin Rothkopf, Peter König*
- Mon-46 Influence of stimulus exposure time in the evaluation of saccades measured with a new visual analyzer  
*Juan Carlos Ondategui Parra, Rosa Borrás García, Elena López García, Arnau Fado, Mikel Aldaba, Jaume Pujol Ramo*
- Mon-47 Motor preparation and attentional benefits: potential targets and resolving competition  
*Michael Puntiroli, Dirk Kerzel, Sabine Born*
- Mon-48 A perceptual asymmetry may be determined by eye dominance  
*Jérôme Tagu, Karine Doré-Mazars, Christelle Lemoine-Lardennois, Dorine Vergilino-Perez*

### **Smooth pursuit**

- Mon-49 Adaptation of smooth pursuit in response to an intra-saccadic change in target velocity  
*Giulietta S. Monasso, Maarten A. Frens, Jos N. van der Geest*
- Mon-50 Random errors in adaptation of smooth pursuit and saccades  
*Berna M. Isik, Marcel de Jeu, Maarten A. Frens, Jos N. van der Geest*
- Mon-51 Linear motion processing in the brain during smooth pursuit eye movement: A spatiotemporal localization  
*Tomoko Yonemura, Hisashi Toyoshima, Reika Endo, Takahiro Yamanoi*
- Mon-52 The influence of stimulus-predictability on directional pursuit accuracy in man and monkey  
*Andre Kaminiarz, Frank Bremmer*
- Mon-53 Stimulus speed influence in evaluating pursuit movements measured with a new visual analyzer  
*Jaume Pujol Ramo, Mikel Aldaba, Arnau Fado, Elena López García, Rosa Borrás García, Juan Carlos Ondategui Parra*
- Mon-54 Smooth pursuit detection using multiple Hidden Markov Models and Mahalanobis distances  
*Simon Schenk, Stefan Hörmann, Gerhard Rigoll, Michael Dorr*
- Mon-55 Comparison of similarity metrics for smooth pursuit eye movements  
*Filip Děchtěrenko, Matěj Kocián, Jiří Lukavský*
- Mon-56 Evaluation of Smooth Pursuit in Individuals with Central Field Loss  
*Natela Shanidze, Elena Potapchuk, Stephen Heinen, Preeti Verghese*

- Mon-57 Changes in visual sensitivity during smooth pursuit and saccadic eye movements  
*Doris I. Braun, Alexander C. Schütz, Karl R. Gegenfurtner*

**Vergence**

- Mon-58 A case-study on relations between dynamic and static vergence states: vergence velocity, heterophoria, objective and subjective fixation disparity  
*Wolfgang Jaschinski*
- Mon-59 Vergence responses to vertical disparity during reading and lexical identification  
*Mirela Nikolova, Stephanie Jainta, Hazel I. Blythe, Simon P. Liversedge*
- Mon-60 Monocular and binocular calibrations in evaluating fixation disparity with video-based eye-tracker  
*Aiga Svede, Elina Treija, Wolfgang Jaschinski, Gunta Krumina*
- Mon-61 The influence of optometric and other parameters on binocular eye movements  
*Remo Poffa, Roland E. Joos*
- Mon-62 Temporal visual function in infantile nystagmus      Previously: Tuesday, Posters, Tue-42  
*Matt James Dunn, Jonathan Thor Erichsen*

## Monday, Talk Session 3, 5.00 pm - 6.40/7.00 pm

Thematic session

Reading: Chinese

HS 7

Chair: Xingshan Li

- 5.00 pm Modeling eye movement control during Chinese reading  
*Xingshan Li*
- 5.20 pm Semantic information could mediate visual attention during spoken word recognition in Chinese  
*Wei Shen, Qingqing Qu, Xingshan Li*
- 5.40 pm Effects of Aging and the Visual Quality of Text on Eye Movements While Reading Chinese  
*Kevin B. Paterson, Lin Li, Sha Li, Simon P. Liversedge, Jingxin Wang*
- 6.00 pm The use of probabilistic lexicality cues for word segmentation in Chinese reading  
*Chuanli Zang, Yongsheng Wang, Xuejun Bai, Guoli Yan, Denis Drieghe, Simon P. Liversedge*
- 6.20 pm The upper halves of Chinese characters are more advantageous than the lower halves for word identification during reading  
*Hui Chi, Guoli Yan, Zhu Meng, Chuanli Zang, Simon P. Liversedge*
- 6.40 pm Binocularity and the reading of Chinese characters, words and text  
*Yi-ting Hsiao, Richard Shillcock*

Thematic session

Visual search

HS 30

Chair: Tamaryn Menneer

- 5.00 pm Manipulating lag-2 revisits during visual search reveals evidence for mixed influences for fixation termination during visual search.  
*Tamaryn Menneer, Hayward J. Godwin, Erik D. Reichle*
- 5.20 pm Visual Search for Transparent and Opaque Overlapping Objects in Depth  
*Hayward J. Godwin, Tamaryn Menneer, Simon P. Liversedge, Kyle R. Cave, Nick S. Holliman, Nick Donnelly*
- 5.40 pm Stuck on semantics: Automatic processing of object-scene incongruities modulates ongoing gaze behavior.  
*Tim H. W. Cornelissen, Melissa Le-Hoa Võ*
- 6.00 pm A strategic failure in eye movements that extends to other modalities  
*Alasdair D. F. Clarke, Amelia R. Hunt*
- 6.20 pm Mirror blindness in visual search for unfamiliar shapes and faces.  
*Stefanie I. Becker, Dustin Venini, James D. Retell, Intan Wardhani, Jeremy M. Wolfe*
- 6.40 pm Effectiveness and use of strategy in visual search increase during adolescence  
*Rudolf Burggraaf, Jos N. van der Geest, Maarten A. Frens, Ignace T. C. Hooge*



Thematic session

**Eye movements and reading: Clinical**

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**HS 31**

Chair: Osvaldo Agamennoni

- 5.00 pm Phonological Processing and Oculomotor Control Differentially Modulate Reading Comprehension Deficits in Schizophrenia and Developmental Dyslexia  
*Veronica M. Whitford, Nicholas Ostapchuk, Debra A. Titone, Gillian A. O'Driscoll*
- 5.20 pm Eye Movements and Sentence Processing in Adults with Autism Spectrum Disorder  
*Philippa Lucy Howard, Valerie Benson, Simon P. Liversedge*
- 5.40 pm Mild Alzheimer's disease: evidences from the analysis of eye movement during reading  
*Gerardo Fernández, David Orozco, Liliana Raquel Castro, Marcela Schumacher, Osvaldo Enrique Agamennoni*
- 6.00 pm Is "Pervasive ocular tremor of Parkinson's" actually neither pervasive, nor ocular, nor uniquely parkinsonian?  
*Michael R. MacAskill, Daniel J. Myall, Toni L. Pitcher, Masayuki Watanabe, Tim J. Anderson*

Thematic session

**Eye movements: Conflict and inhibition**

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**HS 32**

Chair: W. Joseph MacInnes

- 5.00 pm Oculomotor dominance in multitasking: Conflict resolution in cross-modal action  
*Aleksandra Pieczykolan, Lynn Huestegge*
- 5.20 pm Talking While Looking: On the Modularity of the Oculomotor Control System  
*Lynn Huestegge, Aleksandra Pieczykolan, Iring Koch*
- 5.40 pm Audiovisual integration of an irrelevant distractor  
*Jessica Heeman, Tanja C.W. Nijboer, Nathan Van der Stoep, Stefan Van der Stigchel*
- 6.00 pm Event structure influences on object accessibility during competitive retrieval  
*Glenn Patrick Williams, Anuenu Kukona, Yuki Kamide*
- 6.20 pm The role of imagined perspective in route description encoding and map representations: evidence from eye tracking.  
*Fabio Parente, Alastair D. Smith, Ruth Filik*
- 6.40 pm Multiple diffusion models to compare saccadic and manual responses for Inhibition of return  
*W. Joseph MacInnes*

## Tuesday, Talk Session 1, 8.50 am - 10.30 am

### Symposium

#### What the eyes tell us about bilingual language processing

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HS 7

Convenor: Debra A Titone

- 8.50 am How second language experience impacts first and second language reading: Evidence from several eye movement tasks in younger and older adults  
*Debra A. Titone, Veronica M. Whitford, Irina Pivneva*
- 9.10 am Cognate effects in L1 and L2 natural reading  
*Eva Van Assche, Uschi Cop, Denis Drieghe, Wouter Duyck, Robert Hartsuiker*
- 9.30 am Bilingual listeners use phonetic cues to anticipate codeswitches  
*Melinda Fricke, Judith F. Kroll, Paola E. Dussias*
- 9.50 am Found in translation: what eye movement data can tell us about the development of formulaic language in bilingual speakers  
*Kathy Conklin, Gareth T. Carrol*
- 10.10 am Cross-language parafoveal semantic preview benefit for Korean-Chinese bilingual readers  
*Ming Yan, Aiping Wang*

### Thematic session

#### Natural scene perception and eye-tracking

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HS 30

Chair: Walter Bischof

- 8.50 am The influence of image and object features on fixation selection in scene viewing: A generalized linear mixed model approach  
*Antje Nuthmann, Wolfgang Einhäuser*
- 9.10 am The independent and causal contributions of chromatic and achromatic features to fixation selection in natural scenes  
*Wolfgang Einhäuser, Antje Nuthmann*
- 9.30 am Representing real-world object categories for visuo-motor decisions using category-consistent features  
*Gregory Zelinsky, Justin Maxfield, Chen-Ping Yu*
- 9.50 am The influence of a scene preview on eye movement behaviour in natural scenes.  
*Nicola C. Anderson, Mieke Donk, Martijn Meeter*
- 10.10 am Generalized Recurrence Analysis of Eye Movements  
*Walter Bischof, Grayden Solman, Marina Groner*

Thematic session

**Saccades I**

**HS 31**

Chair: Rebecca Förster

- 8.50 am The effect of spatial probability and reward on saccadic and manual response times  
*Rosie Clark, Rafal Bogacz, Iain D. Gilchrist*
- 9.10 am Distribution of attention and parallel saccade programming in antisaccades  
*Anna Klapetek, Heiner Deubel*
- 9.30 am Saccade control and expectation violations in sensorimotor sequences: Evidence for a check-after-surprise mode of attentional selection  
*Rebecca M. Foerster, Werner X. Schneider*
- 9.50 am The Geometry of Eye Movement Dynamics  
*Simon Henein, Ilan Vardi*

Thematic session

**Eye movements and reading: Influences of higher cognition**

**HS 32**

Chair: Marlit Annalena Lindner

- 8.50 9.10 am Mass measurement of fixation behaviours and audience nature in a realistic educational setting  
*Richard Shillcock, Cara Wase*
- 9.10 9.30 am Unraveling the Multimedia Effect in Testing: How Representational Pictures Affect Schoolchildren's Processing of Multiple-Choice Questions  
*Marlit Annalena Lindner, Olaf Köller*
- 9.30 9.50 am Eye movements during the recollection of text information reflect content rather than the text itself  
*Franziska Traub, Roger Johansson, Kenneth Holmqvist*
- 9.50 am ~~Verbal working memory load does not constrain parallel language activation in bilinguals: Evidence from a visual world eye tracking study~~  
~~*Seema Prasad, Ramesh Mishra*~~ CANCELLED
- 10.10 am Comparison of Scanpaths Using Multimatch Algorithm – Influence of Affect, Photo Content, and Individual Differences  
*Maksymilian Bielecki, Domaradzka Ewa, Zakrzewska Marta*

**Tuesday, Keynote, 11.00 am - 12.00 pm**

**Audimax**

- 11.00 am Saccadic distractor effects: The when and where of saccade generation  
*Robin Walker*

## Tuesday, Talk Session 2, 1.20 pm - 3.00/3.20 pm

Thematic session

**Reading: Development and special populations**

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**HS 7**

Chair: Nathalie N. Belanger

- 1.20 pm Young Skilled Deaf Readers Have an Enhanced Perceptual Span in Reading  
*Nathalie N. Belanger, Elizabeth R. Schotter, Keith Rayner*
- 1.40 pm Childrens' eye movements during reading: Evidence for deficits in sensori-motor target computation in children with ADHD, but not in children with dyslexia.  
*André Krügel, Angela Ines Klein, Sarah Risse, Günter Esser, Ralf Engbert*
- 2.00 pm Oculomotor function in children with and without Developmental Coordination Disorder.  
*Emma Sumner, Gustav Kuhn, Elisabeth Hill*
- 2.20 pm Exploring spontaneous inference generation in children with ASD during reading  
*Martina Micai, Holly Joseph, Mila Vulchanova, David Saldaña*
- 2.40 pm An incremental boundary study on parafoveal preprocessing in children: Parafoveal masks overestimate the preview benefit.  
*Christina Marx, Stefan Hawelka, Sarah Schuster, Florian Hutzler*
- 3.00 pm Analysis of microsaccades extracted from fixations along sentence reading in young and senior groups  
*Liliana Raquel Castro, Gerardo Fernández, Osvaldo Enrique Agamennoni*

Symposium

**Neural mechanisms of saliency, attention and orienting**

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**HS 30**

Convenor: Brian Joseph White

- 1.20 pm A midbrain saliency map in the primate superior colliculus  
*Brian J. White, David Berg, Laurent Itti, Douglas P. Munoz*
- 1.40 pm The role of the superior colliculus in the coordination of the pupil orienting response  
*Chin-An Wang, Douglas P. Munoz*
- 2.00 pm The role of the frontal eye fields (FEF) in the expression of non-saccadic measures of oculomotor output  
*Brian Corneil*
- 2.20 pm Neuronal response gain modulation around the time of microsaccades  
*Ziad Hafed*
- 2.40 pm Cell and circuit origins of top-down bias in primate prefrontal cortex  
*Thilo Womelsdorf*

Thematic session

**Eye movements: Neurophysiology and neuropsychology**

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**HS 31**

Chair: Stefan van der Stigchel

- 1.20 pm Functional connectivity changes after a frontal cortex lesion in a non-human primate  
*Ramina Adam, Kevin Johnston, R. Matthew Hutchison, Stefan Everling*
- 1.40 pm Removal of an epileptically compromised frontal eye fields restores antisaccade behavior  
*Stefan Van der Stigchel, Zachary Freudenburg, Mariska Vansteensel, Chris Dijkerman, Nick Ramsey, Frans Leijten*
- 2.00 pm Patients with parietal lesions encode corollary discharges for endogenously driven bilateral saccades  
*Kate Rath-Wilson, Daniel Guitton*
- 2.20 pm Crude calibration is sufficient for blind users to extend the functionality of a retinal prosthesis  
*Avi Caspi, Arup Roy, Robert Greenberg, Avinoam B. Safran, Jose A. Sahel*
- 2.40 pm The effect of partial versus total field removal on search strategies in simulated hemianopia  
*Anna D. F. Nowakowska, Alasdair D. F. Clarke, Amelia R. Hunt, Arash Sahraie*

Thematic session

**Reading: Dyslexia and aphasia**

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**HS 32**

Chair: Thomas Günther

- 1.20 pm Phonological processing during silent reading in readers with dyslexia  
*Jonathan H. Dickins, Hazel I. Blythe, Colin R. Kennedy, Simon P. Liversedge*
- 1.40 pm Dyslexic adult readers show transposed-letter effects in reading  
*Rhiannon S. Barrington, Denis Drieghe, Julie A. Kirkby*
- 2.00 pm Benefits of Increased Character and Word Spacing for Developing Chinese Readers with Dyslexia: Evidence from Eye Movements  
*Jingxin Wang, Sha Li, Lin Li, Fang Xie, Min Chang, Victoria A. McGowan, Kevin B. Paterson*
- 2.20 pm Mindless reading in children with attention deficit, dyslexia and the comorbid condition  
*Thomas Günther, Katharina Peters, Wolfgang Scharke, Ralph Radach*
- 2.40 pm Meaning-structure probabilities influence comprehension of mild garden path sentences in aphasia  
*Anneline Huck, Madeline Cruice, Robin Thompson, Penny Roy, Jane Marshall*

Tuesday, Posters, 3.00 pm - 5.00 pm

## Tuesday, Posters, 3.00 pm - 5.00 pm

### Main Ceremonial Chamber

#### Curvature of eye movement trajectories

- Tue-1 A comparison of early and late measures of saccade trajectory deviation  
*Luke Tudge, Torsten Schubert*
- Tue-2 Spatio-temporal stimuli interactions in the visuo-oculomotor pathway: are they spatiotopic or retinotopic?  
*Geoffrey Megardon, Petroc Sumner, Casimir J.H. Ludwig*

#### Eye movements and perception

- Tue-3 Illusory motion perception and eye movements: a study of the cycloid illusion  
*Hiroshi Ueda, Kohske Takahashi, Katsumi Watanabe, Yasushi Yamaguchi*
- Tue-4 Predicting perceived visual complexity using objective image properties and eye-movement measurements  
*Andreas Gartus, Jadwiga Takacs, Helmut Leder*
- Tue-5 Evidence for trans-saccadic fusion.  
*Celine Paeye, Thérèse Collins, Patrick Cavanagh*
- Tue-6 Where triangles become circular: The impact of transsaccadic predictions on shape perception depends on retinal eccentricity  
*Katharina Weiß, Arvid Herwig*
- Tue-7 Analyzing Gender Attribution Using Eye Tracking  
*Frederike Wenzlaff, Arne Dekker*
- Tue-8 Do eye movements reflect preference structure in more realistic scenarios?  
*Kerstin Kusch, Cölln Martin Christoph, Helmert Jens R., Pannasch Sebastian*
- Tue-9 Quantification of Signal Carriers for Emotion Recognition from Body Movement and Facial Affects  
*Daniel Roth, Carola Bloch, Anne-Kathrin Wilbers, Kai Kaspar, Marc Erich Latoschik, Gary Bente*
- Tue-10 Object substitution masking across saccadic eye movements  
*Karl Verfaillie, Bart Michiels, Maarten Demeyer, Filip Germeyns*

#### Eye-tracking methods

- Tue-11 An evaluation of velocity-based saccade detection in mobile eye tracking  
*Ali Abedian-Amiri, Hans A. Trukenbrod, Ralf Engbert*
- Tue-12 Defining Areas of Interest for the Dynamic Web Pages  
*Robert Moro, Jakub Daraz, Mária Bieliková*
- Tue-13 An upgraded program for statistical analysis of eye movement data: The transition patterns  
*John J. H. Lin, Grace M. Y. Hsieh, Sunny S. J. Lin*

- Tue-14 Easy as Py: Eye Tracking with OpenSesame and PyGaze  
*Sebastiaan Mathôt, Lotje van der Linden, Eduard Ort, Daniel Schreij, Stefan Van der Stigchel, Edwin S. Dalmaijer*
- Tue-15 The method of lie detection during face recognition using eye tracking  
*Artem Kovalev, Elizaveta Luniakova, Galina Y. Menshikova*
- Tue-16 Comparing Eye-tracking Data Using Machine Learning  
*Michal Barla, Miroslav Šimek, Mária Bielíková*
- Tue-17 A Model for Analyzing the Role of Camera Parameters in the Clinical Assessment of Eye Movements  
*Mehrdad Sangi, Benjamin Thompson, Cindy Xiaopeng Guo, Jason Turuwhenua*
- Tue-18 Effect of wearing glasses on eye tracking measurements  
*Filip Děchtěrenko, Jiří Lukavský, Kenneth Holmqvist*
- Tue-19 Continuous 3D Recovery of Human Gaze using Multisensory Pose Tracking  
*Lucas Paletta, Michael Schwarz, Stefan Ladstätter, Martin Pszeida*

#### Microsaccades

- Tue-20 Contrast-Dependent Neural Responses to Microsaccades in Primary Visual Cortex (V1)  
*Jie Cui, Stephen L. Macknik, Susana Martinez-Conde*
- Tue-21 The effect of music reception on microsaccade rate and pupil dilatation  
*Elke B. Lange, Petra Sinn*

#### Reading

- Tue-22 Eye Movement Control in Turkish: Word-Length and Morphological-Complexity Effects on Fixation Landing Positions  
*Cengiz Acartürk, Figen Beken, Bilal Kirkici*
- Tue-23 Referential ambiguity resolution: an eye-tracking study with reference to Russian  
*Veronika Prokopenya, Aleksandra Talanina, Daria Chernova*
- Tue-24 Contextual predictability and phonological preview benefit in reading Chinese sentences  
*Jie-Li Tsai, Chia-Ying Lee*
- Tue-25 Eye movements of two extremely fast readers  
*Ralph Radach, Christian Vorstius, Thomas Lüttke, Anne Friede, Ronan Reilly*
- Tue-26 The Morphological Structure of Compound Words influences Parafoveal Processing in Chinese Reading  
*Lei Cui, Denis Drieghe, Guoli Yan, Xuejun Bai, Hui Chi, Simon P. Livsedge*
- Tue-27 Eye movement in comprehending infographics with different color arrangement  
*Tsuei-Ju Hsieh, Yen-Chih Chen*

*Tuesday, Posters, 3.00 pm - 5.00 pm*

- Tue-28 Lexico-syntactic interactions in second language sentence processing: What can eye-movements reveal?  
*Ana Paula Soares, Helena Oliveira, Marisa B. Ferreira, Montserrat Comesaña, António Filipe Macedo*
- Tue-29 Reading short stories: Repetition Effects and Semantic Distance Effects on Eye Movements  
*Juan E. Kamienkowski, Bruno Bianchi, Maria J. Carbajal, Facundo Carrillo, Mariano Sigman, Diego Fernandez Slezak, Diego E. Shalom*
- Tue-30 Reading eye movement behaviour in a large cohort of 9-year old children  
*Suzanne C. Louwen, Rick van der Vliet, Hieab H. Adams, Henning W. Tiemeier, Jos N. van der Geest*
- Tue-31 The effect of horizontal movement of text on lexical and sentence-level processing during reading  
*Hannah Harvey, Hayward J. Godwin, Gemma Fitzsimmons, Simon P. Liversedge, Robin Walker*
- Tue-32 When Words Are Changing Places: Eyetracking Reveals Control Strategies  
*Chris Lange-Küttner, Markowska Monika*
- Tue-33 Effects of font size and spacing on Chinese reading the newspaper material in urban low-age senior citizens  
*Jie Wu, Haiyu Cheng, Mengxuan Wu*
- Tue-34 Using eye-tracking to explore formulaic sequences: Some methodological challenges  
*Gareth T. Carroll, Kathy Conklin*

#### **Social influences**

- Tue-35 Eye movements in sequential line-ups for suspects with distinctive features  
*Adrian von Mühlenen, Marie Luisa Schaper, Daniel Steinmann, Kimberly Wade*
- Tue-36 Appealing or threatening images alter gaze behavior with attractive faces  
*Jürgen Goller, Aleksandra Mitrovic, Helmut Leder*

#### **Visual influences**

- Tue-37 Investigating Screen Center Bias and Orbital Reserve as Causes for Central Fixation Bias  
*Lasse Borgholt, Peter Simonsen, Sigrid Klerke*
- Tue-38 Comparison of models of visual attention in degraded images  
*Michael Schneider, Kun Guo, Florian Röhrbein*
- Tue-39 Midas look: Fixation maps on virtual 3-D objects  
*Martin Christoph Cölln, Kerstin Kusch*
- Tue-40 The impact of image size on eye movement parameters  
*Ricardo Ramos Gameiro, Kai Kaspar, Sontje Nordholt, Peter König*
- Tue-41 The role of surprisal in predicting gaze during a contour change detection task  
*Filipe Cristino, E. Charles Leek*



- Tue-42 ~~Temporal visual function in infantile nystagmus~~ Moved to: Monday, Posters, Mon-62  
~~Matt James Dunn, Jonathan Thor Erichsen~~
- Tue-43 Temporal visual function in infantile nystagmus  
*Matt James Dunn, Jonathan Thor Erichsen*
- Tue-44 Prediction errors are modulated by inferred information from the blind spot  
*Benedikt Valerian Ehinger, Peter König, Ossandón José*
- Tue-45 Computational Eye Movements  
*Joo-Hwee Lim*
- Tue-46 How depth influences eye movements when viewing stereoscopic images of natural scenes  
*Christophe Maggia, Anne Guérin-Dugué, Nathalie Guyader*
- Tue-47 The Useful Field of View in real world scene viewing: Tunnel vision versus general interference  
*Lester C. Loschky, Ryan C. Ringer, Zachary W. Throneburg, Arthur F. Kramer, Aaron P. Johnson*
- Tue-48 Pilots' Saccadic Eye Movements and Attention Shift during Flight Operations  
*Wen-Chin Li, Chung-San Yu, Matthew Greaves, Graham Braithwaite*

**Visual search**

- Tue-49 Pupil dilation indicates mind-wandering in visual search depending on task difficulty  
*Christoph Huber-Huber, Ulrich Ansorge*
- Tue-50 Searching two hemifield-scenes simultaneously with the contralateral left and right hemisphere  
*Richard Shillcock, Jiayi Cheng, Hadi Mehrpouya*
- Tue-51 Find the fork in the bedroom! Contextual cueing for semantic intruders  
*Sabine Öhlschläger, Melissa Le-Hoa Võ*
- Tue-52 Target detection in dynamically changing visual displays: Eye movements suggest two modes of search  
*Alex Muhl-Richardson, Hayward J. Godwin, Matthew Garner, Julie A. Hadwin, Simon P. Liversedge, Nick Donnelly*
- Tue-53 Worth a look: The effects of irrelevant rewarding stimuli on eye movements  
*Sage E. P. Boettcher, Melissa Le-Hoa Võ*
- Tue-54 What eye movements can reveal about the coupling of attention and context memory in visual search  
*Efsun Annac, Mathias Pointner, Hermann J. Müller, Thomas Geyer*
- Tue-55 Central and peripheral scene degradation modulate the detectability of peripheral targets  
*Anke Cajar, Paul Schneeweiß, Jochen Laubrock, Ralf Engbert*
- Tue-56 The relationship of long-term and short-term perceptual hypotheses – Evidence from contextual cueing of interrupted visual search  
*Bernhard Schlagbauer, Maurice Mink, Hermann J. Müller, Thomas Geyer*

*Tuesday, Posters, 3.00 pm - 5.00 pm*

- Tue-57 Visual search vs. visual foraging in studying visual attention  
*Ómar I. Jóhannesson, Ian M. Thornton, Irene J. Smith, Andrey Chetverikov, Árni Kristjánsson*
- Tue-58 On the (un)importance of foveal vision during visual search in real-world scenes  
*Adam C. Clayden, Robert B. Fisher, Antje Nuthmann*
- Tue-59 Eyes movement in the visual semantic search  
*Irina Blinnikova, Anna Izmalkova, Natalia Rotova*
- Tue-60 Competition for perceptual salience in eye guidance during realistic scene search  
*Sara Spotorno, Benjamin W. Tatler*
- Tue-61 Let's inhibit anyway! Inhibition of saccadic return for search-relevant and search-irrelevant items  
*Margit Höfler, Iain D. Gilchrist, Christof Körner*
- Tue-62 Reward modulates oculomotor competition between distractors and target in top-down visual search  
*Cao Ge, Ruimeng Wang, Xin Zhao, Yi Zhang, Yang Wang, Haibo Yang*

## Tuesday, Talk Session 3, 5.00 pm - 6.40 pm

Thematic session

### Reading: Influences of context I

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HS 7

Chair: Stephanie Jainta

- 5.00 pm Spontaneous transfer of syntax in natural reading  
*Awel Hydref Vaughan-Evans, Simon P. Livesedge, Guillaume Thierry, Manon Jones*
- 5.20 pm No word is an island: How eye-tracking helps us to understand the processing advantage when native speakers read familiar sequences  
*Gareth T. Carrol, Kathy Conklin*
- 5.40 pm The effect of hyphenation at syllable boundaries in early Finnish reading instruction  
*Raymond Bertram, Tuomo Häikiö, Jukka Hyönä*
- 6.00 pm Does text contrast mediate binocular advantages in reading?  
*Stephanie Jainta, Mirela Nikolova, Simon P. Livesedge*
- 6.20 pm Do resource constraints affect lexical processing? Evidence from eye movements  
*Mallorie Leinenger, Mark Myslín, Keith Rayner, Roger Levy*

Thematic session

### Reading: Influences of valence, emotion, and negation

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HS 30

Chair: Ruth Filik

- 5.00 pm Valence, arousal and credibility of an argument influence eye movements during sentence reading  
*Johanna K. Kaakinen, Suvi Peltoniemi*
- 5.20 pm Examining the timecourse of the emotional impact of verbal irony: Evidence from eye movements during reading  
*Ruth Filik, Hartmut Leuthold*
- 5.40 pm The role of working memory and emphasizing skills in the processing of written sarcasm  
*Henri Olkonien, Johanna K. Kaakinen*
- 6.00 pm The role of contextual factors in written sarcasm comprehension  
*Alexandra Turcan, Hannah Howman, Ruth Filik*
- 6.20 pm Processing negated bounded and unbounded expressions during reading: An eye movement investigation  
*Lewis T. Jayes, Hazel I. Blythe, Kevin B. Paterson, Simon P. Livesedge*

Thematic session

**Eye movements: Neurophysiology and EEG**

**HS 31**

Chair: Andrey Nikolaev

- 5.00 pm ~~Pre-target activity of V1 linked to occurrence of express latency saccades~~  
~~Kayeon Kim, Choongkil Lee~~ CANCELLED
- 5.20 5.00 pm Saccadic Eye Movements and Neural Correlates Involved during Letter and Object Naming Speed Tasks  
*Noor Z. Al Dahhan, Donald C. Brien, John R. Kirby, Douglas P. Munoz*
- 5.40 5.20 pm Expecting a Surprise? EEG Signal Dynamics in Unrestricted Natural Visual Search  
*Alexander Varatharajah, Juan E. Kamienkowski, Lisandro N. Kaunitz, Mariano Sigman, Rodrigo Quian Quiroga, Matias J. Ison*
- 6.00 5.40 pm Simultaneous processing of EEG and eye movements in free viewing behavior  
*Andrey R. Nikolaev, Cees van Leeuwen*
- 6.20 6.00 pm The effect of secondary cognitive task demand on fixation event related potentials (fERPs) during a hazard perception task  
*Steven W. Savage, Benjamin W. Tatler, Douglas D. Potter*

Symposium

**The COGAIN Eye Data Quality Project**

**HS 32**

Convenor: Fiona Bríd Mulvey

- 5.00 pm Revisiting Eyetracker Noise Estimators  
*Dixon C. Cleveland, Fiona B. Mulvey, Jeff B. Pelz, COGAIN Eye Data Quality Standardisation Committee*
- 5.20 pm Modeling of settings for event detection algorithms based on noise level in eye tracking data  
*Raimondas Zemblys, Kenneth Holmqvist, Dong Wang, Fiona Mulvey, Jeff Pelz, Sol Simpson*
- 5.40 pm Eye data quality and event detection: A comparison of algorithm performance across spectral noise characteristics  
*Jeff B. Pelz, Fiona B. Mulvey, Dixon C. Cleveland*
- 6.00 pm The effect of sample selection methods on data quality measures and on predictors for data quality  
*Kenneth Holmqvist, Raimondas Zemblys, Dixon C. Cleveland, Fiona B. Mulvey, Josh Borah, Jeff B. Pelz*
- 6.20 pm How reliable is my eye-movement data? Results of system comparison and participant characteristics-based prediction of data quality from the COGAIN Eye Data Quality Project's Standardisation Committee.  
*Fiona B. Mulvey, Niels Landwehr, Josh Borah, Dixon C. Cleveland, Markus Joos, Kara Latorella, Jeff B. Pelz, Sol Simpson, Dong Wang, COGAIN Eye Data Quality Standardisation Committee*

**Tuesday, Keynote, 7.15 pm - 8.15 pm**

**Audimax**

- 7.15 pm    From the properties of the superior colliculus to saccades in the real world:  
              Towards an integrated view of eye-movement control  
              *Françoise Vitu*

## Wednesday, Talk Session 1, 8.50 am - 10.30 am

### Symposium

#### In memory of Keith Rayner

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**HS 7**

Convenor: Albrecht W Inhoff

- 8.50 am Information Uptake during Reading is Effective but not always Accurate  
*Albrecht W. Inhoff, Julie M. Gregg*
- 9.10 am English Compound Word Recognition during Reading: An Eye Movement Investigation  
*Barbara Juhasz*
- 9.30 am Opening the Door on Cloze  
*Timothy J. Slattery*
- 9.50 am Computational Modeling of Reading: The "Whole Burrito"  
*Erik D. Reichle*
- 10.10 am Semantic Preview Benefit in Reading and Keith Rayner's More Recent Contribution to the Field of Eye Movements in Reading  
*Elizabeth R. Schotter, Simon P. Liversedge*

### Thematic session

#### Eye movements in new media and film

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**HS 30**

Chair: Gloria Yi-Ming Kao

- 8.50 am List or grid? Eye movement assessment of the influence of the presentation format on decision making during Web searching  
*you jia Zeng, Chen-Chao Tao*
- 9.10 am Reading for Comprehension versus Skim Reading on the Web: How Skim Reading is informed by Hyperlinks.  
*Gemma Fitzsimmons, Mark J. Weal, Denis Drieghe*
- 9.30 am Animated adverts impair children's online reading and text comprehension  
*Nils Holmberg, Kenneth Holmqvist, Helena Sandberg*
- 9.50 am An eye-tracking comparison of cognitive load and flow status in reading e-books with printed words, spoken words, and portrait  
*Gloria Yi-Ming Kao*
- 10.10 am Analog versus digital: How human perception adapts to new film aesthetics  
*Miriam Laura Loertscher, David Weibel, Barbara Flueckiger, Simon Spiegel, Pierre Mennel, Fred W. Mast, Rudolf Groner, Christian Iseli*

Thematic session

**Reading: Influences of context II**

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**HS 31**

Chair: Franziska Kretzschmar

- 8.50 am Words in context: The effects of word length, frequency and predictability on brain responses during natural reading  
*Sarah Schuster, Stefan Hawelka, Florian Hutzler, Martin Kronbichler, Fabio Richlan*
- 9.10 am Animacy-based predictions show delayed effects in non-competitive environments  
*Franziska Kretzschmar, Svenja Lüß, Ina Bornkessel-Schlesewsky, Matthias Schlesewsky*
- 9.30 am Reading sentences of uniform word length  
*Michael G. Cutter, Denis Drieghe, Simon P. Liversedge*
- 9.50 am Using a dichoptic moving window presentation technique to investigate binocular advantages during reading  
*Mirela Nikolova, Stephanie Jainta, Hazel I. Blythe, Simon P. Liversedge*
- 10.10 am Orthographic neighborhood effects in L1 and L2 reading  
*Cop Uschi, Nicolas Dirix, Wouter Duyck*

Thematic session

**Saccades and perception**

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**HS 32**

Chair: Alexander Schütz

- 8.50 am Stimulus duration and compression of space  
*Sabine Born, Hannah M. Krüger, Patrick Cavanagh*
- 9.10 am On the Perception of Space Following Saccadic Adaption  
*Hannah M. Krüger, Patrick Cavanagh, Thérèse Collins*
- 9.30 am Integration of pre-saccadic peripheral and post-saccadic foveal information follows relative reliabilities  
*Alexander C. Schütz, Christian Wolf*
- 9.50 am Attentional competition across the saccade depends on visual stability: Evidence from the blanking paradigm  
*Christian H. Poth, Arvid Herwig, Werner X. Schneider*
- 10.10 am Visions of the Future: Action outcome prediction revealed by eye-movements  
*Christina Ursula Pfeuffer, Lynn Huestegge*

**Wednesday, Keynote, 11.00 am - 12.00 pm**

**Audimax**

- 11.00 am Fluctuations in attentional span during reading  
*Jukka Hyönä*

## Thursday, Talk Session 1, 8.50/9.10 am - 10.30 am

### Symposium

#### Triple P: Pre-, peri- and post-saccadic perception

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HS 7

Convenor: Sabine Born

- 8.50 am Transsaccadic spatial stability and pre-saccadic perception  
*Paola Binda, Guido Marco Cicchini, David C. Burr, M. Concetta Morrone*
- 9.10 am A predictive copy of the motor command influences visual stability across saccades  
*Antimo Buonocore, David P. Melcher*
- 9.30 am How transsaccadic predictions shape the perception of shape  
*Arvid Herwig, Katharina Weiß, Werner X. Schneider*
- 9.50 am Cortical feedback to primary visual cortex during interhemifield saccades  
*Grace Edwards, Petra Vetter, Lars Muckli*
- 10.10 am Saccadic influences on vision beyond early stages of sensory encoding  
*Sven Ohl, Martin Rolfs*

### Thematic session

#### Reading: General II

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HS 30

Chair: Sascha Schroeder

- 8.50 am The development of eye-movements in three different orthographies: an eye-tracking investigation  
*Sascha Schroeder, Tuomo Häikiö, Ascensión Pagán, Jonathan H. Dickins, Jukka Hyönä, Simon P. Liversedge*
- 9.10 am Chinese Individuals Use Orthography Knowledge in Spoken Word Recognition  
*Qingqing Qu, Wei Shen, Mengsi Wang, Xingshan Li*
- 9.30 am Orthographic Similarity and Relative Frequency Influence Competition during Visual Word Identification  
*Julie M. Gregg, Ralph Radach, Albrecht W. Inhoff*
- 9.50 am The Influence of Word Length, Spatial Extent, and Initial Bigram Characteristics on Eye Movement Control During Reading: Evidence from Arabic  
*Ehab W. Hermena, Denis Drieghe, Simon P. Liversedge*
- 10.10 am Reading in Agglutinating Languages: The Role of Morphology on Eye Movements  
*Cengiz Acartürk, Özge Nilay Yalcin*



Thematic session

**Eye movements and attention**

**HS 31**

Chair: Artem Belopolsky

- 8.50 am Tracking down attentional templates  
*Artem Belopolsky, Chris Olivers*
- 9.10 am Information gain does not modulate the facilitation of saccades by a perceptual task  
*Christian Wolf, Alexander C. Schütz*
- 9.30 am Near-perfect decoding of visual attention with pupillometry  
*Sebastiaan Mathôt, Jean-Baptiste Melmi, Lotje van der Linden, Stefan Van der Stigchel*
- 9.50 am Covert selection and suppression as determinants of oculomotor behaviour: An eye-tracking and EEG study  
*Matthew D. Weaver, Clayton Hickey, Wieske van Zoest*
- 10.10 am Visual search for targets both in and out of predictable locations within routes  
*Oliver Tew, Hayward J. Godwin, Matthew Garner, Julie A. Hadwin, Simon P. Liversedge, Nick Donnelly*

Thematic session

**Mobile eye-tracking: Tools and findings**

**HS 32**

Chair: Charlotte A Riggs

- 8.50 9.10 am Rummage Searching for Targets by Individuals, Teams and Experts  
*Charlotte A. Riggs, Carl M. Mann, Hayward J. Godwin, Sarah Smith, Michael Boardman, Simon P. Liversedge, Nick Donnelly*
- 9.10 9.30 am Do it yourself! Active object handling leads to faster search times.  
*Dejan Draschkow, Melissa Le-Hoa Võ*
- 9.30 9.50 am Automatic Analysis of a Mobile Dual Eye-Tracking Study on Joint Attention  
*Patrick Renner, Thies Pfeiffer, Nadine Pfeiffer-Leßmann*
- 9.50 am ~~GazeVideoAnalyzer – A Modular Approach Towards Automatic Annotation of Gaze Videos using Robust Object Recognizers~~  
~~*Kai Essig, Dato Abashidze, Thomas Schack*~~ CANCELLED
- 10.10 am Application of Markov chains in the analysis of data acquisition process in ship simulator environment  
*Bartosz Muczynski, Maciej Gucma*

**Thursday, Keynote, 11.00 am - 12.00 pm**

**Audimax**

- 11.00 am Computational modeling of bottom-up and top-down visual attention in complex dynamic environments  
*Laurent Itti*

## Thursday, Talk Session 2, 1.20 pm - 3.00 pm

### Symposium

#### Development of parafoveal processing during reading acquisition

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HS 7

Convenor: Sascha Schroeder

- 1.20 pm Does parafoveal processing require competence in basic word-decoding processes? A longitudinal developmental study of the perceptual span  
*Jochen Laubrock, Johannes M. Meixner, Anja Sperlich*
- 1.40 pm Parafoveal pre-processing of word initial trigrams during reading in children  
*Ascensión Pagán, Hazel I. Blythe, Simon P. Livversedge*
- 2.00 pm Development of children's parafoveal processing of phonological and orthographic information  
*Simon Patrick Tiffin-Richards, Sascha Schroeder*
- 2.20 pm Parafoveal preprocessing of phonology during silent reading in typically developing readers and readers with Permanent Childhood Hearing Impairment  
*Hazel I. Blythe, Jonathan H. Dickins, Colin R. Kennedy, Simon P. Livversedge*
- 2.40 pm Recent developments in the research of children's parafoveal processing in reading  
*Tuomo Häikiö*

### Symposium

#### Eye movements and attention in moving images

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HS 30

Convenor: Christian Valuch

- 1.20 pm Saliency for static and dynamic scenes  
*Michael Dorr, Eleonora Vig, Erhardt Barth*
- 1.40 pm The "tyranny of film": Movie viewers' gaze minimally reflects differences in their comprehension processes  
*Lester C. Loschky, John P. Hutson, Adam M. Larson, Joseph P. Magliano, Tim J. Smith*
- 2.00 pm Hear my lips: Implicit detection of asynchronous audio-visual speech by eye movements  
*Tim J. Smith, Jonathan P. Batten, Katri Seppälä, Rachael Bedford*
- 2.20 pm Meaning, memory and individual differences in fixation during the viewing of dynamic scenes  
*Tom Foulsham*
- 2.40 pm The role of implicit visual memory for gaze guidance after cuts in edited moving images  
*Christian Valuch, Raphael Seywerth, Ulrich Ansorge*

Thematic session

**Eye movements, attention, and memory**

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**HS 31**

Chair: Damien Litchfield

- 1.20 pm Updating of visual-spatial working memory across saccades  
*Paul Boon, Artem Belopolsky, Jan Theeuwes*
- 1.40 pm Network analysis of anatomical connectivity reveals an information processing stream for memory-guided visual behavior  
*Kelly Shen, Gleb Bezgin, Anthony R. McIntosh, Jennifer D. Ryan*
- 2.00 pm Attentional Guidance by Simultaneously Active Working Memory Representations: Evidence from Competition in Saccade Target Selection  
*Valerie Margaret Beck, Andrew Hollingworth*
- 2.20 pm Priorities for representation: Task settings and object interaction both influence object memory  
*Clare Kirtley, Benjamin W. Tatler*
- 2.40 pm False memory-guided eye movements: insights from the DRM-Saccade paradigm  
*Damien Litchfield, Lauren Knott, Tim Donovan, Trevor Crawford*

Thematic session

**Eye movements: Faces**

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**HS 32**

Chair: Roberto Caldara

- 1.20 pm The Facespan – the perceptual span for face recognition  
*Michael Papinutto, Junpeng Lao, Roberto Caldara, Sébastien Miellet*
- 1.40 pm Face recognition: The contribution of different input locations and input durations to recognition processes  
*Charlotte Schwedes, Dirk Wentura*
- 2.00 pm Idiosyncratic Visual Information Sampling Strategies regulate the Face Inversion Effect  
*Xinyi Ouyang, Sébastien Miellet, Junpeng Lao, Roberto Caldara*
- 2.20 pm Cultural Diversity in Eye Movements is shaped by Nurture not Nature  
*Roberto Caldara, Anne-Raphaëlle Richoz, Yingdi Liu, Junpeng Lao*
- 2.40 pm Exploring Measures of Guidance in Visual Search for Multiple Unfamiliar Faces  
*Natalie Mestry, Tamaryn Menneer, Hayward J. Godwin, Kyle R. Cave, Nick Donnelly*

Thursday, Posters, 3.00 pm - 5.00 pm

## Thursday, Posters, 3.00 pm - 5.00 pm

### Main Ceremonial Chamber

#### Attention capture/Oculomotor capture

- Thu-1 Feature priming rather than visual working memory affects oculomotor selection in a bottom-up manner  
*Mieke Donk, Jeroen Silvis, Jozua Murriss, Artem Belopolsky*
- Thu-2 Subliminal oculomotor capture: The role of contrast polarity  
*Hanna Weichselbaum, Isabella Fuchs, Ulrich Ansorge*
- Thu-3 Perceptual saliency biases fixations on a surprise trial  
*Gernot Horstmann*
- Thu-4 Is oculomotor capture due to attentional capture or to saccade priming?  
*Tobias Schöberl, Ulrich Ansorge*
- Thu-5 Saccadic Eye Movements Reveal Stronger Attention Capture by Fearful than Neutral Faces  
*Shah Khalid, Ulrich Ansorge*
- Thu-6 A Comparison of Bottom-up and Top-down Saliency between Human Vision and a Computer Model of Visual Attention  
*Simone Frintrop, Lina Jackel, Ulrich Ettinger*
- Thu-7 Variational saliency maps for dynamic image sequences  
*Aniello Raffaele Patrone, Christian Valuch, Ulrich Ansorge, Otmar Scherzer*

#### Clinical applications

- Thu-8 Eye Movements Reveal links between Attentional Biases to Threat and Friendship Quality in 9-11-year-olds with Internalising and Externalising Personality Traits.  
*Katerina Pavlou, Julie A. Hadwin, Valerie Benson*
- Thu-9 Presymptomatic changes in saccadic eye movement in hemiparkinsonian MPTP-treated monkeys  
*Leonid Victorovich Tereshchenko, Victor N. Anisimov, Valeriy V. Shulgovskiy, Alexander V. Latanov*
- Thu-10 To exploit or explore? Using pupillometry to track norepinephrine activity in adults with ADHD symptoms  
*Rebecca Nicole Elisa, Benjamin A. Parris*
- Thu-11 Emotion recognition and attentional deployment in adolescent, psychiatric patients with affective dysregulation  
*Anne Kathrin Schwenzfeier, Benjamin Pniewski, Marlies Pinnow, Anna Ball, Martin Holtmann, Tanja Legenbauer*
- Thu-12 Inefficient facial scan paths in autism?  
*Masaharu Kato, Kosuke Asada, Shinichiro Kumagaya, Satsuki Ayaya*

Thu-13 Fixational saccades in Multiple Sclerosis disorders

*João P. M. Costa, Marisa B. Ferreira, Marta Parreira, Olga Joana Miguel, Inês Sousa, José Figueiredo, João José Cerqueira, Paulo A. Pereira, António Filipe Macedo*

Thu-14 Investigating fatigue in Multiple Sclerosis using saccades

*Marisa B. Ferreira, Marta Parreira, Olga Joana Miguel, Inês Sousa, José Figueiredo, Paulo A. Pereira, João José Cerqueira, António Filipe Macedo*

Thu-15 Eye tracking and attentional bias for emotion stimuli with symptoms of earthquake related PTSD

*Haibo Yang, Xin Zhao, Ruimeng Wang, Yang Wang, Yi Zhang*

Thu-16 Eye movement based evaluation of a text-level reading intervention for aphasic patients

*Irene Ablinger, Ralph Radach, Klaus Willmes, Valentine Silberling*

Thu-17 Relationship between psychopathic personality traits, visual attention and emotion recognition of facial expressions: An eye-tracking study

*Maria João de Sousa Seixas, Pedro Rocha Almeida, Pedro Vieira Fernandes, Tiago Oliveira Paiva, Lucas Borges da Silva*

Thu-18 The Gap-effect in people with dementia: A longitudinal eye-tracking study

*Trevor Crawford, Alex Devereaux*

**Eye movements and memory**

Thu-19 Perceptual memory can bias subsequent saccades after natural but not induced systematic endpoint errors

*Paul Zerr, Katharine N. Thakkar, Stefan Van der Stigchel*

Thu-20 Visual working memory resources are dynamically redistributed to saccade targets before saccade onset

*Edwin S. Dalmaijer, Masud Husain*

Thu-21 Finding memory load in the eyes

*Radha Nila Meghanathan, Cees van Leeuwen, Andrey R. Nikolaev*

Thu-22 Sleep dependency of episodic memory consolidation – hints from children's eyes.

*Jing-Yi Wang, Frederik D. Weber, Jan Born*

Thu-23 Verbal and spatial encoding show different eye movement strategies in a working memory task

*Sebastian F. Henschke, Elke B. Lange, Laura Rerko*

Thu-24 Learning set size influences pupil dilation during retrieval

*Péter Pajkossy, Attila Keresztes, Mihály Racsmany*

Thu-25 Working memory matters, near-hand postures do not: Why are the effects of working-memory load and interference-control demands on pupil dilation not influenced by the near-hand effect?

*Christian Scharinger, Peter Gerjets*

Thu-26 Tracking the eyes for sleep's benefit in episodic memory consolidation.

*Frederik D. Weber, Jan Born*

*Thursday, Posters, 3.00 pm - 5.00 pm*

- Thu-27 Parallel Modulation of Pupil Diameter and EEG Occipital Alpha Power by Attentional Engagement  
*Zeeshan Syed, Karina J. Linnell*

**Intermodal influences**

- Thu-28 Tactile stimulation biases in free viewing behavior  
*José Pablo Ossandón, Tobias Heed, Peter König*
- Thu-29 Modulation of the vestibulo-ocular reflex by transcranial direct current stimulation  
*Kiki Arkesteijn*
- Thu-30 Remote eyetracker recovery and performance during head rotation  
*Roy S. Hessels, Tim H. W. Cornelissen, Chantal Kemner, Ignace T. C. Hooge*
- Thu-31 Seeing what you hear: two exploratory studies using eye movement registrations to reveal the time course of speech understanding  
*Monique Lamers*
- Thu-32 Can We Entrain the Saccade Timer to Musical Tempo?  
*Jonathan P. Batten, Gustav Kuhn, Tim J. Smith*
- Thu-33 Up-down asymmetry in visually induced self-motion perception (vection)  
*Yasuhiro Seya, Hiroyuki Shinoda, Yoshiya Nakaura*

**Learning and adaptation**

- Thu-34 The Effects of Synchronized Cues and Learners' Expertise on Multimedia Learning: An Eye Movement Study  
*Fuxing Wang, Heping Xie*
- Thu-35 Framing Gameplay Experience with Eye Movement Based Adaptation  
*Katharina Spiel, Sven Bertel*
- Thu-36 Saccadic adaptation is associated with starting eye position  
*Svenja Gremmler, Markus Lappe*
- Thu-37 Gait assessment – development of skilled gaze behavior in physiotherapy students  
*Carina Prammer, Anna-Maria Gorgas*
- Thu-38 Learning human gazing behavior with a simple neural network  
*Mohamed Ashraf, Florian Röhrbein*
- Thu-39 Do saccades adapt to the distance between targets in visual search?  
*Christof Körner, Margit Höfler, Iain D. Gilchrist*
- Thu-40 Monitoring the Learning Process when Learning Radiology by Case Comparisons  
*Ellen Kok, Anique de Bruin, Jimmie Leppink, Simon Robben, Jeroen van Merriënboer*
- Thu-41 Measuring learning strategies: An eye-tracking approach  
*Tristan Haselhuhn, Sebastian Schmid, Klaus-Peter Wild*
- Thu-42 The Perceptual Differences between Experienced Chinese Chess Players and Novices: Evidence from Eye Movement  
*Fuxing Wang, Xiujuan Hou, Zhaohui Duan, Huashan Liu*

- Thu-43 Eye Movement Based Classification of Expertise in Photo Editing  
*Tandra Ghose, Yannik T. H. Schelske, Takeshi Suzuki*

- Thu-44 Cerebellar transcranial Direct Current Stimulation does not affect inward saccadic adaptation  
*Suzy Margaretha, Eric Avila, Jos N. van der Geest, Maarten A. Frens*

### Reading

- Thu-45 Coloring as a syllabification cue in beginning reading: An intervention study  
*Tuomo Häikiö, Jukka Hyönä, Raymond Bertram*

- Thu-46 Development of the perceptual span: Nonlinear mixed-effects modeling  
*Johannes M. Meixner, Jochen Laubrock, Anja Sperlich*

- Thu-47 When negative information can't be ignored: Age-related differences in emotion word processing in younger and older adults  
*Eva Fröhlich, Jana Lüdtke*

- Thu-48 Eye movements during the reading of coherent and incoherent sentences: Differential effects for early and late measures  
*Sarah Eilers, Sascha Schroeder, Tobias Richter*

- Thu-49 Eye movement behaviour during the reading of spaced and unspaced Chinese text: Effects of adult age  
*Victoria A. McGowan, Jingxin Wang, Lin Li, Sha Li, Fang Xie, Min Chang, Sarah J. White, Kevin B. Paterson*

- Thu-50 Eye movement parameters in reading syntactically ambiguous sentences in Russian language  
*Victor N. Anisimov, Anna S. Kiseleva, Olga V. Fedorova, Alexander V. Latanov*

- Thu-51 Character positional frequency effects on Chinese word segmentation are independent from neighbourhood size  
*Feifei Liang, Yongsheng Wang, Hazel I. Blythe, Chuanli Zang, Xuejun Bai, Simon P. Liv-  
ersedge*

- Thu-52 Effects of word frequency and visual complexity on eye movements of young and older Chinese readers  
*Chuanli Zang, Manman Zhang, Xuejun Bai, Guoli Yan, Kevin B. Paterson, Simon P. Liv-  
ersedge*

- Thu-53 Exploring the Lack of a Disfluency Effect during Reading  
*Alexander Strukelj, Katharina Scheiter, Marcus Nyström, Manuel Oliva, Kenneth Holmqvist*

- Thu-54 Eye-tracking evidence that get-passives imply Patient control  
*Dominic Thompson, Fernanda Ferreira, Christoph Scheepers*

- Thu-55 The Contribution of Executive Function Components Varies Across the Timeline of Reading  
*Regina Henry, Victor Kuperman, Julie A. Van Dyke*

- Thu-56 Syllables as Encoding Units in a Word Copying Task  
*Abby E. Laishley, Simon P. Liv-  
ersedge, Julie A. Kirkby*

Thursday, Posters, 3.00 pm - 5.00 pm

### **Social influences**

- Thu-57 Worse prediction of overt attention by physical saliency in the presence of social features  
*Albert End, Matthias Gamer*
- Thu-58 GET-Social: Group Eye Tracking Environment for Social Gaze Analysis  
*Ozan Deniz, Mehmetcan Fal, Ufuk Bozkurt, Cengiz Acartürk*
- Thu-59 When I say hello: Covert attention to real people in everyday environments  
*Kaitlin E. W. Laidlaw, Austin Rothwell, Alan Kingstone*
- Thu-60 A Dual Eyetracker Design for Measuring Shared Attention in Dynamic Oculomotor Selection  
*Daniel R. Saunders, David P. Melcher, Wieske van Zoest*
- Thu-61 ~~Sexually motivated attention and decision making~~ CANCELLED  
~~*Anna Kathryn Oostendorp, Hugo M. Kehr*~~
- Thu-62 Effect of others' sheer presence on visuo-oculomotor tasks?  
*Denis Pelisson, Johan Ferrand-Verdejo, Eric Koun, Martine Meunier*
- Thu-63 Effects of gaze and facial expressions of emotions on eye movements and person judgments in social settings.  
*Raphaela E. Kaisler, Manuela M. Marin, Helmut Leder*



## Thursday, Talk Session 3, 5.00 pm - 6.40/7.00 pm

Thematic session

**Reading: Parafoveal processing**

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**HS 7**

Chair: Ralph Radach

- 5.00 pm Individual differences in parafoveal processing as a function of reading rate and visual acuity measures  
*Sarah Risse*
- 5.20 pm Parafoveal Processing in Silent and Oral Reading of Chinese Sentences  
*Jinger Pan, Jochen Laubrock, Ming Yan*
- 5.40 pm Acquisition of information from left of the current fixation in reading  
*Ralph Radach, Ronan Reilly, Christian Vorstius, Albrecht W. Inhoff*
- 6.00 pm On the peril of parafoveal masks and asset of the novel incremental boundary paradigm  
*Florian Hutzler, Stefan Hawelka, Benjamin Gagl, Christina Marx, Sarah Schuster*
- 6.20 pm Parafoveal processing of contextually predictable words: Effects of reading proficiency  
*Aaron Veldre, Sally Andrews*
- 6.40 pm Parafoveal Processing of Arabic Diacritical Marks  
*Denis Drieghe, Ehab W. Hermena, Simon P. Liversedge*

Thematic session

**Saccades II**

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**HS 30**

Chair: Jan Theeuwes

- 5.00 pm Control of fixation duration by foveal and peripheral evidence  
*Casimir J.H. Ludwig, George Stothart, Craig Hedge, Andy Skinner*
- 5.20 pm Individual differences in the time-course of saccadic selection  
*Wieske van Zoest*
- 5.40 pm Oculomotor capture by stimuli that signal the availability of reward  
*Jan Theeuwes, Tom Nissens, Mike E. Le Pelley, Michel F. Failing*
- 6.00 pm The impact of reward on low-level eye movement control  
*Eugene McSorley, Rachel McCloy*
- 6.20 pm Saccadic Vector Averaging For Auditory-Visual Stimuli  
*Muriel Dysli, Mathias Abegg*

Thematic session

**Scanpaths, saliency, and fixation memory**

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**HS 31**

Chair: Ralf Engbert

- 5.00 pm    Modeling scanpath statistics obtained from mobile eye-tracking  
*Ralf Engbert*
- 5.20 pm    Investigating scanpaths: The effect of memory  
*Hans A. Trukenbrod*
- 5.40 pm    A scanpath algorithm for dynamic regions of interest and complex task environments  
*Ryan M. Hope, Wayne D. Gray*
- 6.00 pm    Comparing saliency maps and human focus maps when free-viewing landscape photographs  
*Lien Dupont, Kristien Ooms, Veerle Van Eetvelde*
- 6.20 pm    Let me tell you where you looked! How much do people know about their own fixations?  
*Melissa Le-Hoa Võ, Jeremy M. Wolfe*

Thematic session

**Eye-tracking: Issues of measurement**

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**HS 32**

Chair: Ignace Hooge

- 5.00 pm    iMap 4: An Open Source Toolbox for the Statistical Fixation Mapping of Eye Movement data with Linear Mixed Modeling  
*Junpeng Lao, Sébastien Mielliet, Cyril Pernet, Nayla Sokhn, Roberto Caldara*
- 5.20 pm    Accurate Pupil Localization Using Contour Sampling for Excimer Laser Eye Surgery  
*Hong-Hong Lin, Kuo-Chih Chiu*
- 5.40 pm    The effect of pupil size on the dynamics of the eye tracker signal during saccades  
*Marcus Nyström, Ignace T. C. Hooge, Richard Andersson*
- 6.00 pm    Pupil-CR technique is not suitable for studying detailed dynamics of eye movements  
*Ignace T. C. Hooge, Kenneth Holmqvist, Marcus Nyström*
- 6.20 pm    New Onset Gaze Dependent Disparity in Healthy Humans Changes Saccades, Vergence Eye Movements and Phoria  
*Mathias Aebegg*
- 6.40 pm    Eye tracking with dogs  
*Soon Young Park*

## Friday, Talk Session 1, 8.50 am - 10.30/10.50 am

### Symposium

#### Eye tracking in visual aesthetics: Perception of art

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HS 7

Convenor: Helmut Leder

- 8.50 am Using a concealed, calibration free eye-tracker for studying art perception in the museum  
*Mario Thalwitzer, Hanna Brinkmann, Raphael Rosenberg*
- 9.10 am Arbitrarily shaped areas of interest based on gaze density gradient  
*Wolfgang Fuhl, Thomas Kübler, Katrin Sippel, Wolfgang Rosenstiel, Enkelejda Kasneci*
- 9.30 am Absorption, theatricality and modes of spectatorship in the artworks of Edouard Manet  
*Nick Donnelly, Beth Harland, Simon P. Liversedge*
- 9.50 am Temporal unfolding of eye movements when looking for beauty and complexity  
*Michael Forster, Marcos Nadal, David Brieber, Helmut Leder*
- 10.10 am Discussion  
*Helmut Leder*

### Symposium

#### Investigating deficit theories of dyslexia with naturalistic reading paradigms using eye-movement recordings

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HS 30

Convenor: Benjamin Gagl

- 8.50 am On forward inferences of fast and slow readers. An eye movement study  
*Stefan Hawelka, Sarah Schuster, Benjamin Gagl, Florian Hutzler*
- 9.10 am Eye movements and parafoveal processing in children with dyslexia  
*Julie A. Kirkby, Rhiannon S. Barrington, Lucy C. Worf, Abby E. Laishley*
- 9.30 am A similar correction mechanism in slow and fluent readers after suboptimal landing positions.  
*Benjamin Gagl, Stefan Hawelka, Florian Hutzler*
- 9.50 am Effects of Letter Spacing on Eye Movements during Silent Reading  
*Sebastian Peter Korinth, Kerstin Gerstenberger, Christian Jens Fiebach*
- 10.10 am Brain activation of slow and fluent readers during natural reading: A fixation-related fMRI study  
*Fabio Richlan, Sarah Schuster, Stefan Hawelka, Florian Hutzler*

Thematic session

**Eye movements: Clinical**

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**HS 31**

Chair: Manuel Perea

- 8.50 am    Attentional Capture by Emotional Scenes across Episodes in Bipolar Disorder: Evidence from a Free-Viewing Task  
*Ana García-Blanco, Ladislao Salmerón, Manuel Perea*
- 9.10 am    Hypervigilance for faces but typical gaze following in social anxiety  
*Nicola Jean Gregory, Helen Bolderston, Jastine Antolin*
- 9.30 am    The Relationship Between Implicit Expectations About Character Behaviour and Eating Disorder Tendencies in Males and Females: Evidence From Eye Movements During Reading  
*Christina Ralph-Nearman, Ruth Filik*
- 9.50 am    Sensorimotor outward adaptation in schizophrenia  
*Rebekka Lencer, Annegret Meermeier, Karen Silling, Svenja Gremmler, Markus Lappe*
- 10.10 am   Eye Movements indicate no immediate detection of Social Oddities in Complex Scenes in Autism Spectrum Disorder  
*Valerie Benson, Monica S. Castelano, Philippa Lucy Howard, Nida Latif, Keith Rayner*
- 10.30 am   Repetitive Vergence Training in Binocularly Normal Controls  
*Tara Lynn Alvarez, Henry Talasan*

Thematic session

**Eye movements: Applied questions**

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**HS 32**

Chair: John Paulin Hansen

- 8.50 am    Gaze interaction with textual user interfaces  
*John Paulin Hansen, Haakon Lund, Janus Askø Madsen, Morten Jonassen*
- 9.10 am    Eye Typing for speed: Comparing three different eye typing keyboard layouts  
*Markus Joos, Daniel Liebscher, Wolfgang Rüger, Hans Böhme*
- 9.30 am    Gaze-contingent techniques increase infant attention during ERP studies  
*Estefania Dominguez Martinez, Vincent Reid, Eugenio Parise, Tommy Strandvall*
- 9.50 am    A closer look at the differences in eye movement between successful and unsuccessful solvers while solving geometry problems with handwriting devices  
*John J. H. Lin, Sunny S. J. Lin*
- 10.10 am   The Gaze Controlled Game as a Cognitive Training for Children with Math Difficulties  
*Jacek Matulewski, Bibiana Balaj, Małgorzata Gut, Łukasz Goraczewski, Joanna Dreszer, Jakub Majewski, Ewelina Bendlin, Piotr Cholewa, Alicja Majka, Maciej Kowalski*

**Friday, Keynote, 11.30 am - 12.30 pm**

**Audimax**

- 11.30 am    The role of gaze control mechanisms in visual attention and visual perception  
*Tirin Moore*

Friday, Posters, 1.30 pm - 3.30 pm

## Friday, Posters, 1.30 pm - 3.30 pm

### Main Ceremonial Chamber

#### Applications

- Fri-1 The Effect of Expertise on Viewing of Dynamically Presented Medical Images  
*Joanna K. Kaakinen, Raymond Bertram, Laura Helle, Frank Bensch, Nina Lundbom*
- Fri-2 Scan pattern similarity in repetitive user interface examination.  
*Sandra Dorothee Starke, Natan Sorin Morar, Chris Baber, Neil James Cooke, Xiuli Chen, Andrew Howes*
- Fri-3 Dominant eye vs. Cyclopean eye in gaze interface tracking  
*Michael Wagner, Tomer Elbaum, Assaf Botzer*
- Fri-4 Applying eye tracking technologies in foreign language vocabulary learning studies  
*Anna Izmalkova, Irina Blinnikova*
- Fri-5 The use of oculomotor parameters to detect hypobaric hypoxia  
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- Fri-7 An eyewear to see “yourself” by detecting movement of eyes and body  
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- Fri-8 Eye Tracking in Advertising Effectiveness Research for Cultural Marketing  
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- Fri-10 The Effect of Personalized Advertisement on Visual Attention and Memory Performance  
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- Fri-11 Aggregation of Driver Distraction for Large Scale Real-World Studies  
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- Fri-28 Do video-game players have a larger spotlight of attention compared to non-players?  
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- Fri-43 The influence of parafoveal processing of character N+2 on saccade targeting in Chinese reading  
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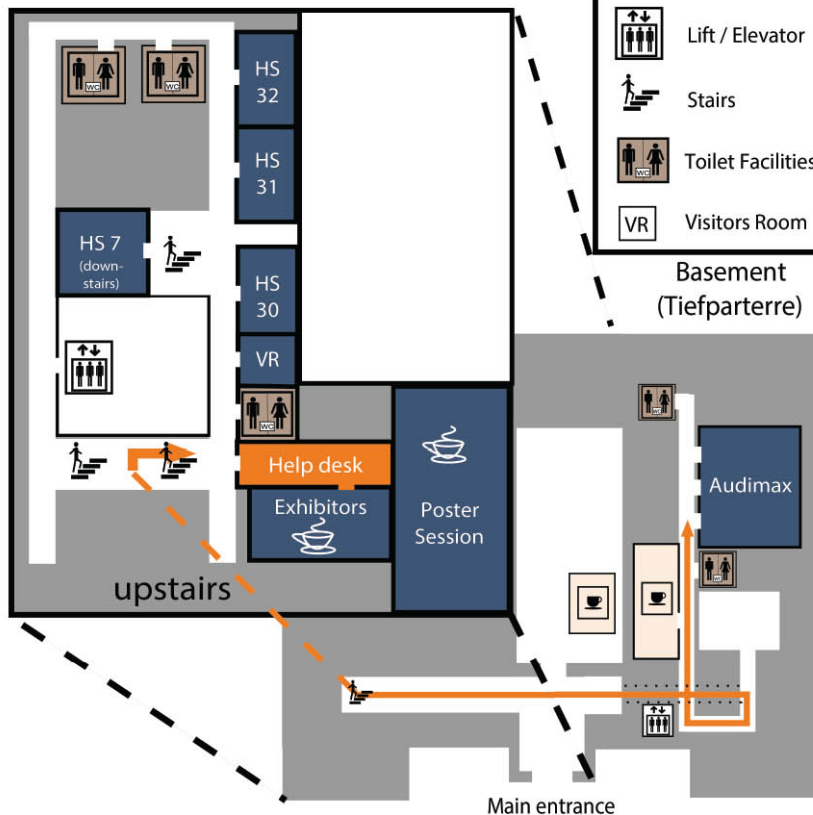


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