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Programme

18th European Conference on Eye Movements

August 16-21, 2015 | University of Vienna, Austria

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ECEM 2015

Programme

of the 18th European Conference on Eye Movements

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

August 16th to 21st, 2015

Vienna, Austria

— online version, updated August 14, 2015—

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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 commisioned to paint Medicine, Jurisprudence and Philosophy, while Matsch was assigned Theology. Klimt's faculty paintings faced severe criticism. They were considered to be too avantgarde 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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Contents

Foreword **7**

About ECEM **10**

General Information **11**

Practical Information **14**

The ECEM App **16**

Information for Presenters **17**
Keith Rayner Memorial Award 17
Talks 17
Posters 18
Chairs 18

Special Events **19**

Maps **20**

Programme at a Glance **23**

Programme Overview **24**

Sunday **30**
Sunday, Keynote, 6.30 pm - 7.30 pm 30

Monday **31**
Monday, Talk Session 1, 8.50 am - 10.30 am 31
Monday, Keynote, 11.00 am - 12.00 pm 32
Monday, Talk Session 2, 1.20 pm - 3.00 pm 33
Monday, Posters, 3.00 pm - 5.00 pm 35
Monday, Talk Session 3, 5.00 pm - 6.40/7.00 pm 40

Tuesday **42**
Tuesday, Talk Session 1, 8.50 am - 10.30 am 42
Tuesday, Keynote, 11.00 am - 12.00 pm 43
Tuesday, Talk Session 2, 1.20 pm - 3.00/3.20 pm 44
Tuesday, Posters, 3.00 pm - 5.00 pm 46

DOI 10.16910/jemr.8.4.2
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ISSN 1995-8692

Contents

Tuesday, Talk Session 3, 5.00 pm - 6.40 pm 51
Tuesday, Keynote, 7.15 pm - 8.15 pm 53

Wednesday **54**
Wednesday, Talk Session 1, 8.50 am - 10.30 am 54
Wednesday, Keynote, 11.00 am - 12.00 pm 55

Thursday **56**
Thursday, Talk Session 1, 8.50/9.10 am - 10.30 am 56
Thursday, Keynote, 11.00 am - 12.00 pm 57
Thursday, Talk Session 2, 1.20 pm - 3.00 pm 58
Thursday, Posters, 3.00 pm - 5.00 pm 60
Thursday, Talk Session 3, 5.00 pm - 6.40/7.00 pm 65

Friday **67**
Friday, Talk Session 1, 8.50 am - 10.30/10.50 am 67
Friday, Keynote, 11.30 am - 12.30 pm 69
Friday, Posters, 1.30 pm - 3.30 pm 70

Author Index **75**

Exhibitors and Sponsors **86**

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ISSN 1995-8692

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 650th 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 650th 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 18th 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

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Foreword

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 18th 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

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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. Tstosos (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

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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

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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 1st floor. The four poster sessions are held in the main ceremonial chamber on the 1st 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 1st 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

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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[1]

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.

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

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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 18th, ~~12:45~~ 12.30 – 13:20 pm, in the *Visitors Room* (see p. 22).

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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.

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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`

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`.

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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/`

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!

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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`. 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`.

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

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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`.

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** $\times$ **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.

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Special Events

Keynote Lectures

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

- Jukka Hyönä (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 16th, 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 19th, 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.

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Maps

From the Venue to the Dinner

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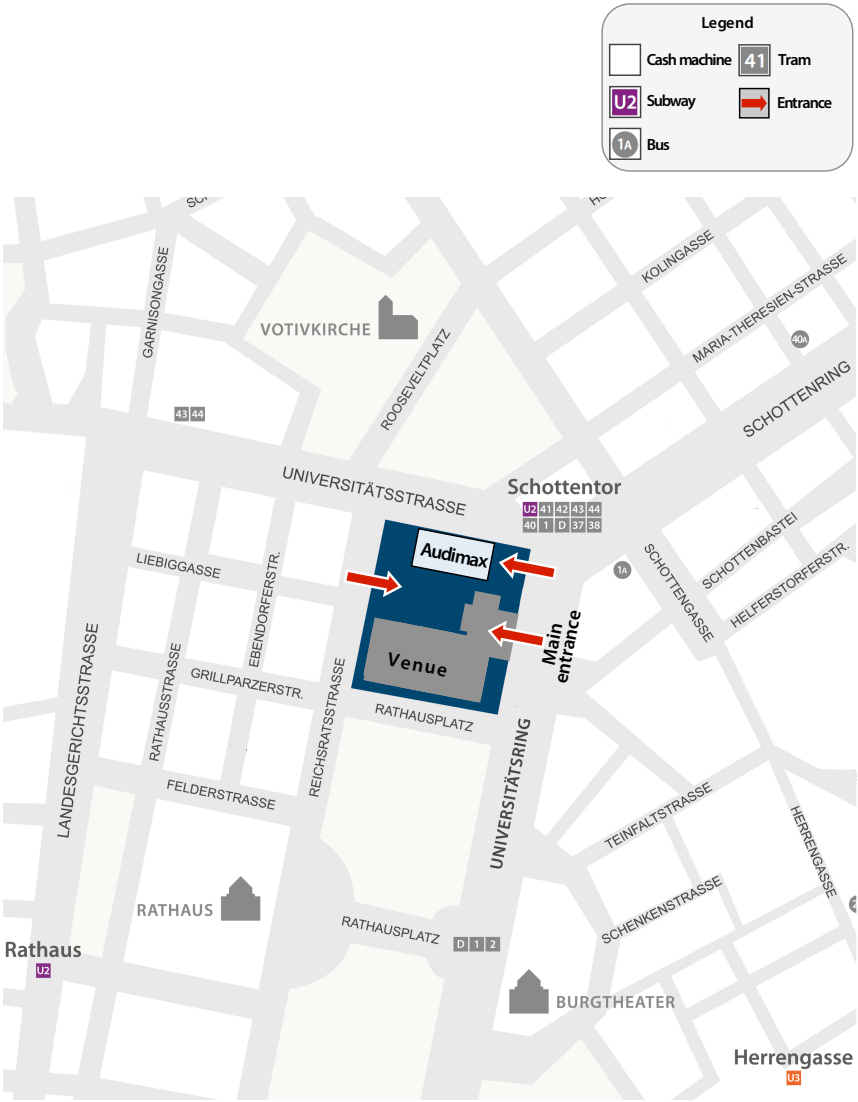
Surroundings



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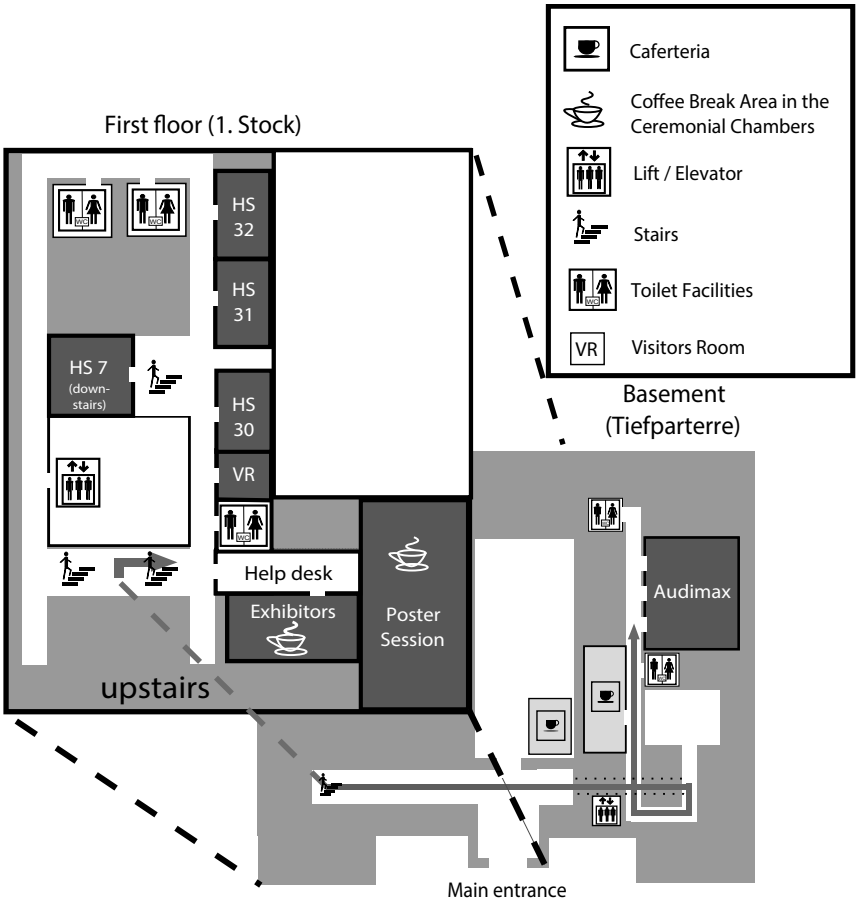
Conference Venue



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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 Hyönä	Keynote Itti	**Goodbye**	11.00 - 11.30
12.00 - 1.20			**Lunch break**			Keynote Moore	11.30 - 12.30
						Lunch break	12.30 - 1.30
1.20 - 3.00		Talks	Talks		Talks	Posters & Coffee break	1.30 - 3.30
3.00 - 4.00		ProgComp & Posters & Coffee break	Posters & Coffee break	Free afternoon	Posters & Coffee break		
4.00 - 5.00	Registration open						
		Talks	Talks		Talks		5.00 - 6.40
	6.00 **Welcome**						
	Keynote König						
	7.30 Reception		7.15 Keynote Vitu	**7.00 Dinner**			

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

* Symposium

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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* *D. A. Titone*	Natural scene perception and eye-tracking *W. Bischof*	Saccades I *R. Förster*	Eye movements and reading: Influences of higher cognition *M. A. Lindner*
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 *Robin Walker*			
12.00 pm - 1.20 pm ~~12.45~~ 12.30 pm - 1.20 pm	**Lunch break** (Main Ceremonial Chamber) **Meeting of ECEM Board of Organizers** (Visitors Room)			
1.20 pm - 3.00/3.20 pm	Reading: Development and special populations *N. N. Belanger*	Neural mechanisms of saliency, attention and orienting* *B. J. White*	Eye movements: Neurophysiology and neuropsychology *S. van der Stigchel*	Reading: Dyslexia and aphasia *T. Günther*
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 *S. Jainta*	Reading: Influences of valence, emotion, and negation *R. Filik*	Eye movements: Neurophysiology and EEG *A. Nikolaev*	The COGAIN Eye Data Quality Project* *F. B. Mulvey*
7.15 pm - 8.15 pm	**Keynote** (Audimax): From the properties of the superior colliculus to saccades in the real world: Towards an integrated view of eye-movement control *Françoise Vitu*			

* Symposium

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Wednesday

Time	HS 7	HS 30	HS 31	HS 32
8.50 am - 10.30 am	In memory of Keith Rayner* *A. W. Inhoff*	Eye movements in new media and film *G. Y. Kao*	Reading: Influences of context II *F. Kretzschmar*	Saccades and perception *A. Schütz*
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 *Jukka Hyönä*			
12.00 pm - 1.20 pm	**Lunch break** (Main Ceremonial Chamber)			
7.00 pm	**Conference dinner** (Town Hall)			

* Symposium

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Thursday

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

* Symposium

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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* *H. Leder*	Investigating deficit theories of dyslexia with naturalistic reading paradigms using eye-movement recordings* *B. Gagl*	Eye movements: Clinical *M. Perea*	Eye movements: Applied questions *J. P. Hansen*
10.30 am - 11.00 am	**Coffee break** (Main Ceremonial Chamber)			
11.00 am - 11.30 am	**Goodbye** (Audimax)			
11.30 am - 12.30 pm	**Keynote** (Audimax): The role of gaze control mechanisms in visual attention and visual perception *Tirin Moore*			
12.30 pm - 1.30 pm	**Lunch break** (Main Ceremonial Chamber)			
1.30 pm - 3.30 pm	**Posters & Coffee break** (Main Ceremonial Chamber)			

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Sunday, Keynote, 6.30 pm - 7.30 pm

Audimax

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

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Monday, Talk Session 1, 8.50 am - 10.30 am

Thematic session

Reading: Individual differences

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 Ecalle, 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

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

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Thematic session

Eye behavior: Perceptual effects and cognitive influences

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

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

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Monday, Talk Session 2, 1.20 pm - 3.00 pm

Thematic session

Reading: General I

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

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

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Monday, Talk Session 2, 1.20 pm - 3.00 pm

Thematic session

Eye movements: Social influences

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

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

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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, Renê 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 Lomtatidze*~~

Mon-11 Patterns of L1-L3 and L2-L3 cognate facilitation in multilingual speakers during sentence reading Previously: Friday, Posters, Fri-51
Agnieszka Lijewska

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

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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 Krieber, Katrin D. Bartl-Pokorny, Florian B. Pokorny, Christa Einspieler, Peter B. Marschik

Mon-27 Eye guidance in Russian: difference in processing nous vs. verbs
Svetlana Alexeeva

Mon-28 Children's Cognitive Processes and Learning Strategies for Reading Illustrated Biology Texts: Eye Movement Measurements
Yu-Cin Jian

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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 Schmidtke, 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

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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 Schüler, 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 Borras García, Elena Lopez 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 Lopez García, Rosa Borras 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

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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

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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

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Thematic session

Eye movements and reading: Clinical

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

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 intgration 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, Anuenue 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

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Tuesday, Talk Session 1, 8.50 am - 10.30 am

Symposium

What the eyes tell us about bilingual language processing

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

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

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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

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

Thematic session

Reading: Development and special populations

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 sensorimotor 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

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

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Thematic session

Eye movements: Neurophysiology and neuropsychology

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

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

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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-occulomotor 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 Germeys

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

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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 Bieliková

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. Liversedge

Tue-27 Eye movement in comprehending infographics with different color arrangement
Tsuei-Ju Hsieh, Yen-Chih Chen

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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. Carrol, 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

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~~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

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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

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Tuesday, Talk Session 3, 5.00 pm - 6.40 pm

Thematic session

Reading: Influences of context I

HS 7 Chair: Stephanie Jainta

5.00 pm Spontaneous transfer of syntax in natural reading
Awel Hydref Vaughan-Evans, Simon P. Liversedge, 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. Liversedge

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

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 Olkoniemi, 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. Liversedge

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Tuesday, Talk Session 3, 5.00 pm - 6.40 pm

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

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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

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Wednesday, Talk Session 1, 8.50 am - 10.30 am

Symposium

In memory of Keith Rayner

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

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

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ISSN 1995-8692

Thematic session

Reading: Influences of context II

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 Lüll, 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

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

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

Symposium

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

HS 7 Convenor: Sabine Born

8.50 am Transaccadic 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

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

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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

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Thursday, Talk Session 2, 1.20 pm - 3.00 pm

Symposium

Development of parafoveal processing during reading acquisition

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. Liversedge

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. Liversedge

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

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

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Thematic session

Eye movements, attention, and memory

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

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

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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 Murris, 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 Salience 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

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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 Racsmány

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

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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

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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. Liversedge

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. Liversedge

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. Liversedge, Julie A. Kirkby

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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

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

Thematic session

Reading: Parafoveal processing

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

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

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

Thematic session

Scanpaths, saliency, and fixation memory

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

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 Miellet, Cyril Pernet, Nayla Sokhn, Roberto Caldara

5.20 pm Accurate Pupil Localization Using Contour Sampling for Excimer Laser Eye Surgery
Horng-Horng 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 Abegg

6.40 pm Eye tracking with dogs
Soon Young Park

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

Symposium

Eye tracking in visual aesthetics: Perception of art

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

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

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Thematic session

Eye movements: Clinical

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. Castelhano, 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

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, Bibianna Balaj, Małgorzata Gut, Łukasz Goraczewski, Joanna Dreszer, Jakub Majewski, Ewelina Bendlin, Piotr Cholewa, Alicja Majka, Maciej Kowalski

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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

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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
Johanna 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
Leandro L. Di Stasi, Raúl Cabestrero, Michael B. McCamy, Francisco Ríos, Andrés Catena, Pilar Quirós, Jose A. López, Carolina Saez, Stephen L. Macknik, Susana Martinez-Conde

Fri-6 Adaptive Web-Based Textbook Utilizing Gaze Data
Mária Bieliková, Robert Moro, Jakub Simko, Jozef Tvarozek

Fri-7 An eyewear to see "yourself" by detecting movement of eyes and body
Shin'ichiro Kanoh, Susumu Ichi-nohe, Shunsuke Shioya, Kazutaka Inoue, Ryuta Kawashima

Fri-8 Eye Tracking in Advertising Effectiveness Research for Cultural Marketing
Claudia Kummer

Fri-9 Fatigue in the military: Fatigue detection tests based on saccadic eye movements
Carolina Diaz-Piedra, Hector Rieiro, Michael B. McCamy, Juan Suárez, Andrés Catena, Leandro L. Di Stasi

Fri-10 The Effect of Personalized Advertisement on Visual Attention and Memory Performance
Kai Kaspar, Marco Rüth, Kai-Christoph Hamborg, Moritz Köster

Fri-11 Aggregation of Driver Distraction for Large Scale Real-World Studies
Lucas Paletta, Roland Perko, Michael Schwarz

Fri-12 A gaze-contingent paradigm as a basis for interactive training of the phonetic contrasts discrimination: a pilot study
Joanna Dreszer, Bibianna Balaj, Jacek Matulewski, Monika Lewandowska, Łukasz Goraczewski, Włodzisław Duch

Fri-13 SMOOVS: A smooth-pursuit based text entry system
Otto Hans-Martin Lutz, Antje Christine Venjakob, Stefan Ruff

Fri-14 Can flight phase be inferred using eye movements? Evidences from real flight conditions
Sébastien Scannella, Vsevolod Peysakhovich, Florian Ehrig, Frédéric Dehais

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ISSN 1995-8692

Fri-15 Eye-gaze Based Attention Estimation in Minimal Invasive Surgery
Georgios Pipelidis, Michael Matscheko, Alois Ferscha

Fri-16 Linking the ability in cognitive tasks to efficient gaze allocation during driving
Andrew Kerr Mackenzie, Julie M. Harris

Fri-17 Para-sight: A visual search study into the effects of product similarity on brand location and recognition.
Timothy Paul Holmes, Haywood Crispin, Alice Georgina Lowenhoff

Fri-18 Attentional bias towards preferred brands in smokers – dot-probe study
Ewa Domaradzka, Maksymilian Bielecki

Fri-19 Eye movements, aesthetic preference and drawing
Eugene McSorley, Louis Williams, Rachel McCloy

Fri-20 Food choice and eye movements: The eyes have it on the day - not so much on the next.
Andreas Jarvstad, Peter J. Rogers, Jeffrey M. Brunstrom, Iain D. Gilchrist

Fri-21 The interplay of low-level and higher-level dimensions in abstract and representational artworks.
Martina Jakesch, Helmut Leder

Fri-22 Tracking eye movement in medical ultrasound video clip analysis of horse legs
Shelley Imanuela Buchinger, Marcus Kaar, Theresia Licka, Christian Valuch, Ulrich Ansorge

Fri-23 Scene viewing and gaze analysis during phonetic segmentation tasks
Arif Khan, Ingmar Steiner, Ross G. Macdonald, Yusuke Sugano, Andreas Bulling

Biological influences

Fri-24 The phase of menstrual cycle modulates eye movements in evolutionary-relevant context.
Joanna Pilarczyk, Emilia Schwertner, Michał Kuniecki

Fri-25 Effects of sex and sexual orientation on the visual exploration of facial attractiveness
Aleksandra Mitrovic, Pablo Tinio, Helmut Leder

Fri-26 Normalized eye movement metrics across motor simulation states: a difference of perspective?
Sheree Ann McCormick, Nicholas Costen, Paul Holmes

Influences of individual differences

Fri-27 Eye movements and executive control in older adults: Age-related decrease in response inhibition.
Thomas Lüttke, Anna Lena Kahl, Christian Vorstius, Ralph Radach

Fri-28 Do video-game players have a larger spotlight of attention compared to non-players?
Galina Henz, David Mack, Uwe Ilg

Fri-29 Personality traits and eye movements: an eye-tracking and pupillometry study
Anne-Kathrin Wilbers, Alina Vennekötter, Moritz Köster, Kai-Christoph Hamborg, Kai Kaspar

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Friday, Posters, 1.30 pm - 3.30 pm

Fri-30 Eye movements of chess players and novices in different settings
Charlotte Mezö, David Mack, Uwe Ilg

Fri-31 The study of vestibular dysfunctions in athletes using eye tracking technology
Oxana Klimova, Artem Kovalev

Fri-32 Gaze behavior during obstacle crossing in children and young adults
Anna-Maria Gorgas, Kate Hamel, David Anderson

Fri-33 Manual versus Saccadic Assessment of Inhibition and Switching Deficits: Evidence the Saccadic System Exhibits Resistance to Aging
Liana Machado, Chris Brett

Fri-34 Cultural Differences in Visual Attention
Albandari Sultan Alotaibi, Geoffrey Underwood, Alastair D. Smith

Fri-35 The influence of motor experience in the visual behavior during observation of motor activity known and not known
Olival Cardoso do Lago, Paulo Schor

Fri-36 Which aspects are important to elicit gaze following in typically developing infants?
Lise Van Schuerbeeck, Marijke A.K.A. Braeken, Jean Steyaert, Raf Meesen, Marleen Vanvuchelen

Fri-37 Eye movements as an indicator of spatial disorientation in pilots and amateurs
Bibianna Balaj, Piotr Francuz, Agnieszka Fudali-Czyż, Paweł Augustynowicz, Paweł Stróżak, Rafał Lewkowicz, Olaf Truszczyński

Fri-38 Post-Editing Effort as a Measure to evaluate Quality of Machine Translation
Jean Nitzke

Fri-39 Expert and Novice Differences in Gaze Transitions during Play of a Dynamic Video Game
Wayne D. Gray, Ryan M. Hope, John K. Lindstedt, Matthew-Donald Sangster

Fri-40 Effect of Expertise on the Comprehension of Plotted Functions
Dmitry Chumachenko, Anatoly Krichevets

Parafoveal processing

Fri-41 Co-registration of Eye Movements and Fixation-Related Potentials to Investigate Parafoveal Preview and Word Frequency Effects
Federica Degno, Piril Hepsomali, Fruzsina Soltész, Nick Donnelly, Simon P. Liversedge

Fri-42 Parafoveal preview effects of word n+2 in fixational eye-movements during reading
Stefan Alexander Seelig, Sarah Risse

Fri-43 The influence of parafoveal processing of character N+2 on saccade targeting in Chinese reading
Xuejun Bai, Yongsheng Wang, Chuanli Zang, Guoli Yan

Fri-44 Brain-electric correlates of the preview benefit: An overview of findings
Olaf Dimigen, Benthe Kornrumpf, Florian Niefind, Werner Sommer

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Reading

Fri-45 Word Order and Pupillometry
Leigh Breakell Fernandez, Barbara Hoehle, Jon Brock, Lyndsey Nickels

Fri-46 In search of a pupillary optimal viewing position (POVP)
Patrick Hynes, Ronan Reilly

Fri-47 The role of context in the processing of Russian suffixed and simple words
Olga Nagel

Fri-48 Revealing the Visual Requirements for Reading Chinese: Evidence from the Disappearing Text Paradigm
Guoli Yan, Nina Liu, Lili Yu, Kevin B. Paterson

Fri-49 Long range regressive saccades in developing readers
Anne Friede, Christian Vorstius, Albrecht W. Inhoff, Ralph Radach

Fri-50 The effect of word spacing and word frequency for Chinese-English bilinguals during bilingual reading
Xin Li, Xuejun Bai, Guoli Yan

~~Fri-51 Patterns of L1-L3 and L2-L3 cognate facilitation in multilingual speakers during sentence reading~~ Moved to: Monday, Posters, Mon-11
~~*Agnieszka Lijewska*~~

Fri-52 Syntactic Ambiguity Resolution: an eye-tracking study with reference to Russian
Daria Chernova, Veronika Prokopenya

Fri-53 Task effect on Eye-Fixations-Related Potentials in reading
Aline Frey, Benoit Lemaire, Marion Manen, Anne Guérin-Dugué

Fri-54 Stroke Encoding in Simplified and Traditional Chinese Character Processing: An Eye-tracking Experiment
Minna M. Zhai, H.C. Chen, Michael C. W. Yip

Fri-55 The use of Theory of Mind in Pronoun Resolution: An eye-tracking study
Patrick Sturt, Nayoung Kwon

Scan paths and scan patterns

Fri-56 The evaluation of individual differences using fractal analysis of scanpaths
Galina Y. Menshikova, Rostislav V. Belyaev, Vladimir V. Kolesov, Victor I. Ryabenkov

Fri-57 Test of a Dynamical Model for Natural Scene Exploration
Heiko H. Schütt, Hans A. Trukenbrod, Lars Rothkegel, Ralf Engbert

Fri-58 The role of initial fixation position on subsequent gaze behavior
Lars Rothkegel, Hans A. Trukenbrod, Ralf Engbert

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ISSN 1995-8692

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ISSN 1995-8692

Author Index

A
Aagten-Murphy, David, 32
Abashidze, Dato, 57
Abedian-Amiri, Ali, 46
Abegg, Mathias, 65, 66
Ablinger, Irene, 61
Acartürk, Cengiz, 47, 56, 64
Adam, Ramina, 45
Adams, Hieab H., 48
Agamennoni, Osvaldo Enrique, 41, 44
Alahyane, Nadia, 37
Aldaba, Mikel, 38
Al Dahhan, Noor Z., 52
Alexeeva, Svetlana, 36
Almeida, Pedro Rocha, 61
Alotaibi, Albandari Sultan, 72
Alvarez, Tara Lynn, 68
Amit, Roy, 34
Anderson, David, 72
Anderson, Nicola C., 42
Anderson, Tim J., 41
Andersson, Richard, 34, 66
Andrews, Sally, 65
Angele, Bernhard, 33, 36
Anisimov, Victor N., 60, 63
Annac, Efsun, 49
Ansorge, Ulrich, 35, 49, 58, 60, 71
Antolin, Jastine, 68
Arkesteijn, Kiki, 62
Arthur, Patricia, 33
Asada, Kosuke, 60
Ashraf, Mohamed, 62
Augustynowicz, Paweł, 72
Avila, Éric, 63
Ayaya, Satsuki, 60

B
Baber, Chris, 70
Bai, Xuejun, 40, 47, 63, 72, 73
Balaj, Bibianna, 68, 70, 72
Ball, Anna, 60
Barcellos, Jéssica, 35
Barla, Michal, 47
Barrington, Rhiannon S., 45, 67
Barth, Erhardt, 58
Bartl-Pokorny, Katrin D., 36
Batten, Jonathan P., 58, 62
Beck, Valerie Margaret, 59
Becker, Stefanie I., 40
Bedell, Harold, 34
Bedford, Rachael, 58
Beken, Figen, 47
Belanger, Nathalie N., 44
Belopolsky, Artem, 57, 59, 60
Belyaev, Rostislav V., 73
Bendlin, Ewelina, 68
Benedek, Mathias, 35
Bensch, Frank, 70
Benson, Valerie, 41, 60, 68
Bente, Gary, 46
Berg, David, 44
Bertel, Sven, 35, 36, 62
Bertram, Raymond, 51, 63, 70
Bezgin, Gleb, 59
Bianchi, Bruno, 48
Bielecki, Maksymilian, 43, 71
Bieliková, Mária, 46, 47, 70
Bilalić, Merim, 35
Binda, Paola, 56
Bischof, Walter, 42
Blinnikova, Irina, 50, 70
Bloch, Carola, 46
Blythe, Hazel I., 39, 45, 51, 55, 58, 63
Boardman, Michael, 57
Boettcher, Sage E. P., 49
Bogacz, Rafal, 37, 43
Böhme, Hans, 68
Bolderston, Helen, 68
Boon, Paul, 59
Borah, Josh, 52
Borgholt, Lasse, 48
Born, Jan, 61
Born, Sabine, 38, 55
Bornkessel-Schlesewsky, Ina, 55
Borras García, Rosa, 38
Botzer, Assaf, 70
Bouamama, Sana, 31
Bozkurt, Ufuk, 64
Braeken, Marijke A.K.A., 72
Braithwaite, Graham, 49
Brand-Gruwel, Saskia, 31

DOI 10.16910/jemr.8.4.2
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ISSN 1995-8692

Braun, Christoph, 38
Braun, Doris I., 39
Bremmer, Frank, 38
Brett, Chris, 72
Brieber, David, 67
Brien, Donald C., 52
Brinkmann, Hanna, 67
Brock, Jon, 73
Brunstrom, Jeffrey M., 71
Buchinger, Shelley Imanuela, 71
Bulatova, Elina, 35
Bulling, Andreas, 71
Buonocore, Antimo, 56
Burggraaf, Rudolf, 40
Burr, David C., 56

C
Cabestrero, Raúl, 70
Cajar, Anke, 49
Caldara, Roberto, 34, 59, 66
Carbajal, Maria J., 48
Carrillo, Facundo, 48
Carrol, Gareth T., 42, 48, 51
Caspi, Avi, 45
Casteau, Soazig, 37
Castelhano, Monica S., 68
Castro, Liliana Raquel, 41, 44
Catena, Andrés, 70
Cavanagh, Patrick, 46, 55
Cave, Kyle R., 40, 59
Cerqueira, João José, 61
Chang, Min, 45, 63
Chen, H.C., 73
Chen, Xiuli, 70
Chen, Yen-Chih, 47
Cheng, Haiyu, 48
Cheng, Jiayi, 49
Chernova, Daria, 47, 73
Chetverikov, Andrey, 50
Chi, Hui, 40, 47
Chiu, Kuo-Chih, 66
Choi, Soonja, 35
Cholewa, Piotr, 68
Chrobot, Nina, 35
Chua, Fook-Kee, 37
Chumachenko, Dmitry, 72
Cicchini, Guido Marco, 56
Clark, Rosie, 43
Clarke, Alasdair D. F., 40, 45
Clayden, Adam C., 50
Cleveland, Dixon C., 52
Collins, Thérèse, 32, 37, 46, 55
Cölln, Martin Christoph, 48
Colombo, Françoise, 34
Comesaña, Montserrat, 48
Conci, Anna, 35
Conklin, Kathy, 42, 48, 51
Cooke, Neil James, 70
Cop, Uschi, 42
Corneil, Brian, 44
Cornelissen, Tim H. W., 40, 62
Costa, João P. M., 61
Costen, Nicholas, 71
Crawford, Trevor, 37, 59, 61
Crispin, Haywood, 71
Cristino, Filipe, 48
Cruice, Madeline, 45
Cui, Jie, 47
Cui, Lei, 47
Cutter, Michael G., 36, 55
Czuchlewski, Kristina R., 31

D
Dalmaijer, Edwin S., 47, 61
Daraz, Jakub, 46
da Silva, Lucas Borges, 61
Davies, Robert, 37
de Bruin, Anique, 62
Degno, Federica, 72
Dehais, Frédéric, 70
de Jeu, Marcel, 38
Dekker, Arne, 46
Demeyer, Maarten, 46
Deniz, Ozan, 64
Deubel, Heiner, 32, 43
Devereaux, Alex, 61
Diaz-Piedra, Carolina, 70
Děchtěrenko, Filip, 38, 47
Dickins, Jonathan H., 45, 56, 58
Dijkerman, Chris, 45
Dimigen, Olaf, 72
Dirix, Nicolas, 55
Di Stasi, Leandro L., 70
do Lago, Olival Cardoso, 72
Domaradzka, Ewa, 71
Dominguez Martinez, Estefania, 68
Donk, Mieke, 34, 42, 60
Donnelly, Nick, 40, 49, 57, 59, 67, 72
Donovan, Tim, 37, 59
Doré-Mazars, Karine, 37, 38

DOI 10.16910/jemr.8.4.2
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ISSN 1995-8692

Dorr, Michael, 38, 58
do Santos Rodrigues, Erica, 36
Draschkow, Dejan, 57
Dreszer, Joanna, 68, 70
Drieghe, Denis, 31, 36, 40, 42, 45, 47, 54–56, 65
Duan, Zhaohui, 62
Duch, Włodzisław, 70
Dunn, Matt James, 39, 49
Dupont, Lien, 66
Dussias, Paola E., 42
Duyck, Marianne, 32
Duyck, Wouter, 42, 55
Dysli, Muriel, 65

E
Ecalle, Jean, 31
Edwards, Grace, 56
Ehinger, Benedikt Valerian, 49
Ehrig, Florian, 70
Eilers, Sarah, 63
Einhäuser, Wolfgang, 42
Einspieler, Christa, 36
Elbaum, Tomer, 70
Elisa, Rebecca Nicole, 60
End, Albert, 64
Endo, Reika, 38
Engbert, Ralf, 34, 44, 46, 49, 66, 73
Erichsen, Jonathan Thor, 39, 49
Esser, Günter, 44
Essig, Kai, 57
Ettinger, Ulrich, 60
Everling, Stefan, 45
Ewa, Domaradzka, 43
Eye Data Quality Standardisation Committee, COGAIN, 52

F
Fado, Arnau, 38
Fagard, Jacqueline, 37
Failing, Michel F., 65
Fal, Mehmetcan, 64
Falkowski, Andrzej, 35
Fedorova, Olga V., 63
Fernandes, Pedro Vieira, 61
Fernández, Gerardo, 41, 44
Fernandez, Leigh Breakell, 73
Fernandez Slezak, Diego, 48
Ferrand-Verdejo, Johan, 64
Ferrara, John, 33
Ferreira, Fernanda, 63
Ferreira, Marisa B., 48, 61
Ferscha, Alois, 71
Fiebach, Christian Jens, 67
Fiehler, Katja, 37
Figueiredo, José, 61
Filik, Ruth, 41, 51, 68
Fischer, Martin H., 35
Fisher, Robert B., 50
Fitzsimmons, Gemma, 48, 54
Flueckiger, Barbara, 54
Foerster, Rebecca M., 43
Fonsova, Natalia, 38
Forster, Michael, 67
Forster, Renê, 35, 36
Foulsham, Tom, 58
Fragoso, Luane, 36
Francuz, Piotr, 72
Frens, Maarten A., 32, 38, 40, 63
Freudenburg, Zachary, 45
Frey, Aline, 73
Fricke, Melinda, 42
Friede, Anne, 47, 73
Frintrop, Simone, 60
Fröhlich, Eva, 63
Fuchs, Isabella, 60
Fudali-Czyż, Agnieszka, 72
Fuhl, Wolfgang, 67
Furlan, Michele, 37

G
Gagl, Benjamin, 65, 67
Gamer, Matthias, 64
García-Blanco, Ana, 68
Garner, Matthew, 49, 57
Gartus, Andreas, 46
Gautier, Josselin, 34
Ge, Cao, 50
Gegenfurtner, Karl R., 32, 39
Gerjets, Peter, 61
Germeys, Filip, 46
Gerstenberger, Kerstin, 67
Geyer, Thomas, 49
Ghose, Tandra, 35, 63
Gilchrist, Iain D., 32, 37, 43, 50, 62, 71
Glaholt, Mackenzie G., 33
Godwin, Hayward J., 40, 48, 49, 57, 59
Goller, Florian, 35
Goller, Jürgen, 48

DOI 10.16910/jemr.8.4.2
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ISSN 1995-8692

Gonzalez-Rodriguez, Jose, 34
Goraczewski, Łukasz, 68, 70
Gorgas, Anna-Maria, 62, 72
Gouw, Paula, 31
Graf, Mario, 35
Gray, Wayne D., 66, 72
Greaves, Matthew, 49
Greenberg, Robert, 45
Gregg, Julie M., 54, 56
Gregory, Nicola Jean, 68
Gremmler, Svenja, 62, 68
Groner, Marina, 42
Groner, Rudolf, 54
Guan, Ying-Hua, 31
Gucma, Maciej, 57
Guérin-Dugué, Anne, 31, 49, 73
Guitton, Daniel, 45
Günther, Thomas, 45
Guo, Cindy Xiaopeng, 47
Guo, Kun, 48
Gut, Małgorzata, 68
Guyader, Nathalie, 49

H
Haass, Michael J., 31
Hadwin, Julie A., 49, 57, 60
Hafed, Ziad, 44
Häikiö, Tuomo, 51, 56, 58, 63
Hamborg, Kai-Christoph, 70, 71
Hamel, Kate, 72
Hansen, Dan Witzner, 34
Hansen, John Paulin, 68
Harezlak, Katarzyna, 32
Harland, Beth, 67
Harris, Julie M., 71
Hartmann, Matthias, 35
Hartsuiker, Robert, 42
Harvey, Hannah, 48
Haselhuhn, Tristan, 62
Hawelka, Stefan, 44, 55, 65, 67
He, Liyuan, 36
Hedge, Craig, 65
Heed, Tobias, 62
Heeman, Jessica, 41
Heinen, Stephen, 38
Helle, Laura, 70
Henein, Simon, 43
Henry, Regina, 63
Henschke, Sebastian F., 61
Henz, Galina, 71
Hepsomali, Piril, 72
Hermena, Ehab W., 31, 56, 65
Herwig, Arvid, 46, 55, 56
Hessels, Roy S., 62
Heuer, Sabine, 35
Hickey, Clayton, 57
Hill, Elisabeth, 44
Hilo, Rinat, 37
Hinde, Stephen John, 32
Hodgson, Timothy, 34
Hoehle, Barbara, 73
Höfler, Margit, 50, 62
Holliman, Nick S., 40
Hollingworth, Andrew, 59
Holmberg, Nils, 54
Holmes, Paul, 71
Holmes, Timothy Paul, 71
Holmqvist, Kenneth, 34, 43, 47, 52, 54, 63, 66
Holtmann, Martin, 60
Holubcova, Alena, 35
Hooge, Ignace T. C., 34, 40, 62, 66
Hope, Ryan M., 66, 72
Hörmann, Stefan, 38
Horstmann, Gernot, 60
Hou, Xiujuan, 62
Howard, Philippa Lucy, 41, 68
Howes, Andrew, 70
Howman, Hannah, 51
Hsiao, Yi-ting, 40
Hsieh, Grace M. Y., 36, 46
Hsieh, Tsuei-Ju, 47
Hsu, Hsien-Yuan, 31
Huber-Huber, Christoph, 49
Huck, Anneline, 45
Huestegge, Lynn, 41, 55
Humphris, Gerry, 35
Hunt, Amelia R., 40, 45
Husain, Masud, 61
Hutchison, R. Matthew, 45
Hutson, John P., 58
Hutzler, Florian, 44, 55, 65, 67
Hynes, Patrick, 73
Hyönä, Jukka, 27, 51, 55, 56, 63

I
Ichi-nohe, Susumu, 70
Ilg, Uwe, 71, 72
Inhoff, Albrecht W., 54, 56, 65, 73
Inoue, Kazutaka, 70

DOI 10.16910/jemr.8.4.2
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ISSN 1995-8692

Iseli, Christian, 54
Isik, Berna M., 32, 38
Ison, Matias J., 52
Itti, Laurent, 28, 44, 57
Izmalkova, Anna, 50, 70

J
Jackel, Lina, 60
Jainta, Stephanie, 39, 51, 55
Jakesch, Martina, 71
Jarodzka, Halszka, 31, 34
Järvikivi, Juhani, 37
Jarvstad, Andreas, 37, 71
Jaschinski, Wolfgang, 39
Jayes, Lewis T., 51
Jens R., Helmert, 46
Jian, Yu-Cin, 36
Jóhannesson, Ómar I., 50
Johansson, Roger, 43
Johnson, Aaron P., 49
Johnston, Kevin, 45
Jonassen, Morten, 68
Jones, Manon, 51
Joos, Markus, 52, 68
Joos, Roland E., 39
José, Ossandón, 49
Joseph, Holly, 44
Juhasz, Barbara, 54
Jurcinska, Inga, 36

K
Kaakinen, Johanna K., 51, 70
Kaar, Marcus, 71
Kahl, Anna Lena, 71
Kaisler, Raphaela E., 64
Kaldos, Janos, 36
Kamide, Yuki, 41
Kamienkowski, Juan E., 48, 52
Kaminiarz, Andre, 38
Kanoh, Shin'ichiro, 70
Kao, Gloria Yi-Ming, 54
Kasneci, Enkelejda, 67
Kaspar, Kai, 46, 48, 70, 71
Kasprowski, Pawel, 32
Kato, Masaharu, 60
Kato, Takaaki, 36
Kaunitz, Lisandro N., 52
Kawashima, Ryuta, 70
Kehr, Hugo M., 64
Kemner, Chantal, 62
Kennedy, Colin R., 45, 58
Keresztes, Attila, 61
Kerzel, Dirk, 38
Khalid, Shah, 60
Khan, Arif, 71
Kim, Kayeon, 52
Kim, Young-Suk, 31
Kingstone, Alan, 64
Kirby, John R., 52
Kirkby, Julie A., 45, 63, 67
Kirkici, Bilal, 47
Kirtley, Clare, 59
Kiseleva, Anna S., 63
Klapetek, Anna, 43
Klassen, Robert M., 31
Klein, Angela Ines, 44
Klerke, Sigrid, 48
Kliegl, Reinhold, 33
Klimova, Oxana, 72
Knott, Lauren, 59
Knox, Paul C., 37
Koch, Iring, 41
Kocián, Matěj, 38
Kok, Ellen, 62
Kolesov, Vladimir V., 73
Köller, Olaf, 43
König, Peter, 24, 30, 38, 48, 49, 62
Korinth, Sebastian Peter, 67
Körner, Christof, 35, 50, 62
Kornrumpf, Benthe, 72
Köster, Moritz, 70, 71
Koun, Eric, 64
Kovalev, Artem, 47, 72
Kowalski, Maciej, 68
Kramer, Arthur F., 49
Kretzschmar, Franziska, 55
Krichevets, Anatoly, 33, 72
Krieber, Magdalena, 36
Kristjánsson, Árni, 50
Kroll, Judith F., 42
Kronbichler, Martin, 55
Krügel, André, 44
Krüger, Hannah M., 55
Krumina, Gunta, 36, 39
Ku, Yu Min, 36
Kübler, Thomas, 67
Kuhn, Gustav, 44, 62
Kukona, Anuenue, 41
Kumagaya, Shinichiro, 60
Kummer, Claudia, 70

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ISSN 1995-8692

Kuniecki, Michał, 71
Kuperman, Victor, 31, 37, 63
Kusch, Kerstin, 46, 48
Kwon, Nayoung, 73
Kyröläinen, Aki-Juhani, 37

L
Ladstätter, Stefan, 47
Laicane, Ilze, 36
Laidlaw, Kaitlin E. W., 64
Laishley, Abby E., 63, 67
Lamers, Monique, 62
Landwehr, Niels, 52
Lange, Elke B., 47, 61
Lange-Küttner, Chris, 48
Lantz, Laura M. T., 37
Lao, Junpeng, 34, 59, 66
Laou, Philips, 33
Lappe, Markus, 62, 68
Larson, Adam M., 58
Latanov, Alexander V., 60, 63
Latif, Nida, 68
Latorella, Kara, 52
Latoschik, Marc Erich, 46
Laubrock, Jochen, 49, 58, 63, 65
Leder, Helmut, 46, 48, 64, 67, 71
Lee, Chia-Ying, 47
Lee, Choongkil, 52
Lee, Donghoon, 35
Leek, E. Charles, 48
Legenbauer, Tanja, 60
Leijten, Frans, 45
Leinenger, Mallorie, 51
Lemaire, Benoit, 31, 73
Lemoine-Lardennois, Christelle, 37, 38
Lencer, Rebekka, 68
Le Pelley, Mike E., 65
Leppink, Jimmie, 62
Leuthold, Hartmut, 51
Levy, Roger, 51
Lewandowska, Monika, 70
Lewkowicz, Rafał, 72
Li, Li, 32
Li, Lin, 40, 45, 63
Li, Sha, 40, 45, 63
Li, Wen-Chin, 49
Li, Xin, 73
Li, Xingshan, 40, 56
Liang, Feifei, 63
Licka, Theresia, 71
Liebscher, Daniel, 68
Lijewska, Agnieszka, 35, 73
Lim, Joo-Hwee, 49
Lin, Horng-Horng, 66
Lin, John J. H., 46, 68
Lin, Sunny S. J., 36, 46, 68
Lindner, Marlit Annalena, 43
Lindstedt, John K., 72
Linnell, Karina J., 62
Litchfield, Damien, 34, 37, 59
Liu, Huashan, 62
Liu, Nina, 36, 73
Liu, Yingdi, 34, 59
Liversedge, Simon P., 31, 36, 39–41, 45, 47–49, 51, 54–58, 63, 65, 67, 72
Loertscher, Miriam Laura, 54
Lomtatidze, Olga, 35
López, Jose A., 70
Lopez García, Elena, 38
Loschky, Lester C., 49, 58
Louwen, Suzanne C., 48
Lowenhoff, Alice Georgina, 71
Lüdtke, Jana, 63
Ludwig, Casimir J.H., 37, 46, 65
Lukavský, Jiří, 38, 47
Lüll, Svenja, 55
Lund, Haakon, 68
Lundbom, Nina, 70
Luniakova, Elizaveta, 47
Lunn, Judith Fiona, 37
Lüttke, Thomas, 47, 71
Lutz, Otto Hans-Martin, 70

M
MacAskill, Michael R., 41
Macdonald, Ross G., 35, 71
Macedo, António Filipe, 48, 61
Machado, Liana, 72
MacInnes, W. Joseph, 41
Mack, David, 71, 72
Mackenzie, Andrew Kerr, 71
Macknik, Stephen L., 47, 70
Madsen, Janus Askø, 68
Maggia, Christophe, 49
Magliano, Joseph P., 58
Majewski, Jakub, 68
Majka, Alicja, 68
Mancheva, Lyuba, 31
Manen, Marion, 73
Mann, Carl M., 57

DOI 10.16910/jemr.8.4.2
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ISSN 1995-8692

Margaretha, Suzy, 63
Marin, Manuela M., 64
Marschik, Peter B., 36
Marshall, Jane, 45
Marta, Zakrzewska, 43
Martin Christoph, Cölln, 46
Martinez-Conde, Susana, 47, 70
Marx, Christina, 44, 65
Mast, Fred W., 54
Mathôt, Sebastiaan, 32, 47, 57
Matscheko, Michael, 71
Matsuki, Kazunaga, 31
Matulewski, Jacek, 68, 70
Matzen, Laura E., 31
Maxfield, Justin, 42
McCamy, Michael B., 70
McCloy, Rachel, 65, 71
McCormick, Sheree Ann, 71
McGowan, Victoria A., 33, 45, 63
McIntosh, Anthony R., 59
McIntyre, Nora Ann, 31
McMichael, Stephanie N., 31
McNamara, Laura A., 31
McSorley, Eugene, 65, 71
Meermeier, Annegret, 68
Meesen, Raf, 72
Meeter, Martijn, 42
Megardon, Geoffrey, 46
Meghanathan, Radha Nila, 61
Mehrpouya, Hadi, 49
Meixner, Johannes M., 58, 63
Melcher, David P., 56, 64
Melmi, Jean-Baptiste, 57
Meng, Zhu, 36, 40
Menneer, Tamaryn, 40, 59
Mennel, Pierre, 54
Menshikova, Galina Y., 47, 73
Mestry, Natalie, 59
Meunier, Martine, 64
Meyberg, Susann, 34
Mezö, Charlotte, 72
Micai, Martina, 44
Michiels, Bart, 46
Miellet, Sébastien, 34, 59, 66
Miguel, Olga Joana, 61
Mink, Maurice, 49
Mishra, Ramesh, 43
Missal, Marcus, 32
Mitrovic, Aleksandra, 48, 71
Moehler, Tobias, 37
Moiseeva, Victoria, 38
Monasso, Giulietta S., 32, 38
Monika, Markowska, 48
Moore, Tirin, 29, 69
Morar, Natan Sorin, 70
Moro, Robert, 46, 70
Morrone, M. Concetta, 56
Muckli, Lars, 56
Muczynski, Bartosz, 57
Muhl-Richardson, Alex, 49
Müller, Hermann J., 49
Mulvey, Fiona, 52
Mulvey, Fiona B., 52
Munoz, Douglas P., 44, 52
Murris, Jozua, 60
Myall, Daniel J., 41
Myslín, Mark, 51

N
Nadal, Marcos, 67
Nagel, Olga, 73
Nakaura, Yoshiya, 62
Narayan, Vikram, 32
Neuhuber, Norah, 34
Nickels, Lyndsey, 73
Niefind, Florian, 72
Niehorster, Diederick C., 32, 34
Nijboer, Tanja C.W., 41
Nikolaev, Andrey R., 52, 61
Nikolova, Mirela, 39, 51, 55
Nissens, Tom, 65
Nitzke, Jean, 72
Nordholt, Sontje, 48
Nottbusch, Guido, 33
Nowakowska, Anna D. F., 45
Nunnendorf, Vanessa, 38
Nuthmann, Antje, 42, 50
Nyström, Marcus, 34, 63, 66

O
O'Driscoll, Gillian A., 41
Ohl, Sven, 56
Öhlschläger, Sabine, 49
Oliva, Manuel, 34, 63
Oliveira, Helena, 48
Olivers, Chris, 57
Olkoniemi, Henri, 51
Ondategui Parra, Juan Carlos, 38
Ooms, Kristien, 66
Oostendorp, Anna Kathryn, 64

DOI 10.16910/jemr.8.4.2
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ISSN 1995-8692

Orozco, David, 41
Ort, Eduard, 47
Ossandón, José Pablo, 62
Ostapchuk, Nicholas, 41
Ouyang, Xinyi, 59
Ozger, Murat, 34

P
Paeye, Celine, 46
Pagán, Ascensión, 56, 58
Paiva, Tiago Oliveira, 61
Pajkossy, Péter, 61
Paletta, Lucas, 34, 47, 70
Pan, Jinger, 65
Paoletti, Davide, 38
Papinutto, Michael, 59
Parente, Fabio, 41
Parise, Eugenio, 68
Park, Soon Young, 66
Parreira, Marta, 61
Parris, Benjamin A., 60
Pascoe, Jeffrey, 33
Paterson, Kevin B., 33, 37, 40, 45, 51, 63, 73
Patrone, Aniello Raffaele, 60
Pauly, Dennis, 33
Pavlou, Katerina, 60
Pelisson, Denis, 64
Peltoniemi, Suvi, 51
Pelz, Jeff, 52
Pelz, Jeff B., 52
Perea, Manuel, 68
Pereira, Paulo A., 61
Perko, Roland, 70
Pernet, Cyril, 66
Peters, Katharina, 45
Peysakhovich, Vsevolod, 70
Pfeiffer, Thies, 57
Pfeiffer-Leßmann, Nadine, 57
Pfeuffer, Christina Ursula, 55
Pieczykolan, Aleksandra, 41
Pilarczyk, Joanna, 71
Pinke, Melissa, 35
Pinnow, Marlies, 60
Pipelidis, Georgios, 71
Pitcher, Toni L., 41
Pivneva, Irina, 42
Pniewski, Benjamin, 60
Poffa, Remo, 39
Pointner, Mathias, 49
Pokorny, Florian B., 36
Porretta, Vincent, 37
Potapchuk, Elena, 38
Poth, Christian H., 55
Potter, Douglas D., 52
Prammer, Carina, 62
Prasad, Seema, 43
Priamikov, Alexander, 32
Prokopenya, Veronika, 47, 73
Pszeida, Martin, 47
Pujol Ramo, Jaume, 38
Puntiroli, Michael, 38

Q
Qu, Qingqing, 40, 56
Quiroga, Rodrigo Quian, 52
Quirós, Pilar, 70

R
Racsmány, Mihály, 61
Radach, Ralph, 31, 45, 47, 56, 61, 65, 71, 73
Ralph-Nearman, Christina, 68
Ramos Gameiro, Ricardo, 48
Ramsey, Nick, 45
Rath-Wilson, Kate, 45
Rayner, Keith, 33, 44, 51, 68
Reichelt, Maria, 36
Reichle, Erik D., 40, 54
Reid, Vincent, 68
Reilly, Ronan, 47, 65, 73
Reingold, Eyal M., 33
Renner, Patrick, 57
Rerko, Laura, 61
Retell, James D., 40
Richlan, Fabio, 55, 67
Richoz, Anne-Raphaëlle, 59
Richter, Tobias, 63
Rieiro, Hector, 70
Riggs, Charlotte A., 57
Rigoll, Gerhard, 38
Ringer, Ryan C., 49
Ríos, Francisco, 70
Risse, Sarah, 44, 65, 72
Robben, Simon, 62
Rodrigues, Erica dos Santos, 35
Rogers, Peter J., 71
Röhrbein, Florian, 48, 62
Rolfs, Martin, 56
Rosenberg, Raphael, 67

DOI 10.16910/jemr.8.4.2
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ISSN 1995-8692

Rosenstiel, Wolfgang, 67
Roth, Daniel, 46
Rothkegel, Lars, 73
Rothkopf, Constantin, 38
Rothwell, Austin, 64
Rotova, Natalia, 50
Roy, Arup, 45
Roy, Penny, 45
Ruff, Stefan, 70
Ruffieux, Nicolas, 34
Rüger, Wolfgang, 68
Rüth, Marco, 70
Ryabenkov, Victor I., 73
Ryan, Jennifer D., 59

S
Saez, Carolina, 70
Safran, Avinoam B., 45
Sahel, Jose A., 45
Sahraie, Arash, 45
Saldaña, David, 44
Salmerón, Ladislao, 68
Sandberg, Helena, 54
Sangi, Mehrdad, 47
Sangster, Matthew-Donald, 72
Saunders, Daniel R., 64
Savage, Steven W., 52
Scannella, Sébastien, 70
Schack, Thomas, 57
Schaper, Marie Luisa, 48
Scharinger, Christian, 61
Scharke, Wolfgang, 45
Scheepers, Christoph, 63
Scheiter, Katharina, 63
Schelske, Yannik T. H., 35, 63
Schenk, Simon, 38
Scherzer, Otmar, 60
Schlagbauer, Bernhard, 49
Schlesewsky, Matthias, 55
Schmid, Sebastian, 62
Schmidtke, Daniel, 37
Schneeweiß, Paul, 49
Schneider, Michael, 48
Schneider, Werner X., 43, 55, 56
Schöberl, Tobias, 60
Schor, Paulo, 72
Schotter, Elizabeth R., 44, 54
Schreij, Daniel, 47
Schroeder, Sascha, 56, 58, 63
Schubert, Torsten, 46
Schüler, Felix, 38
Schumacher, Marcela, 41
Schuster, Sarah, 44, 55, 65, 67
Schütt, Heiko H., 73
Schütz, Alexander C., 37, 39, 55, 57
Schwarz, Michael, 34, 47, 70
Schwarz, Norbert, 35
Schwedes, Charlotte, 59
Schwenzfeier, Anne Kathrin, 60
Schwertner, Emilia, 71
Sebastian, Pannasch, 46
Seelig, Stefan Alexander, 72
Seixas, Maria João de Sousa, 61
Seppälä, Katri, 58
Seya, Yasuhiro, 62
Seywerth, Raphael, 58
Shalom, Diego E., 48
Shanidze, Natela, 38
Shen, Kelly, 59
Shen, Wei, 40, 56
Sheridan, Heather, 33
Shi, Bertram, 32
Shillcock, Richard, 40, 43, 49
Shinoda, Hiroyuki, 62
Shioya, Shunsuke, 70
Shulgovskiy, Valeriy V., 38, 60
Shvarts, Anna, 33
Siebold, Alisha, 34
Sigman, Mariano, 48, 52
Silberling, Valentine, 61
Silling, Karen, 68
Silvis, Jeroen, 60
Sim, Grace, 33
Šimek, Miroslav, 47
Simko, Jakub, 70
Simonsen, Peter, 48
Simpson, Sol, 52
Sinn, Petra, 34, 47
Sippel, Katrin, 67
Siu, Wilfred W.F., 32
Skilters, Jurgis, 36
Skinner, Andy, 65
Slattery, Timothy J., 33, 54
Slavutskaya, Maria, 38
Smith, Alastair D., 41, 72
Smith, Andrew T., 37
Smith, Irene J., 50
Smith, Sarah, 57
Smith, Tim J., 32, 58, 62
Soares, Ana Paula, 48

DOI 10.16910/jemr.8.4.2
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ISSN 1995-8692

Sokhn, Nayla, 66
Solman, Grayden, 42
Soltan, Marina, 33
Soltész, Fruzsina, 72
Sommer, Werner, 34, 72
Sousa, Inês, 61
Sperlich, Anja, 58, 63
Spichtig, Alexandra N., 33
Spiegel, Simon, 54
Spiel, Katharina, 62
Spotorno, Sara, 50
Starke, Sandra Dorothee, 70
Staudte, Maria, 35
Steiner, Ingmar, 71
Steinmann, Daniel, 48
Stevens-Adams, Susan M., 31
Steyaert, Jean, 72
Stothart, George, 65
Stracuzzi, David, 31
Strandvall, Tommy, 35, 68
Stróżak, Paweł, 72
Strukelj, Alexander, 63
Sturt, Patrick, 73
Suárez, Juan, 70
Sugano, Yusuke, 71
Sumner, Emma, 44
Sumner, Petroc, 46
Suzuki, Takeshi, 63
Svede, Aiga, 39
Syed, Zeeshan, 62
Szinte, Martin, 32

T
Tagu, Jérôme, 38
Tai, Sheng Yao, 36
Tailhefer, Coline, 37
Takacs, Jadwiga, 46
Takahashi, Kohske, 46
Talanina, Aleksandra, 47
Talasan, Henry, 68
Tao, Chen-Chao, 54
Tatler, Benjamin W., 50, 52, 59
Tereshchenko, Leonid Victorovich, 60
Tew, Oliver, 57
Thakkar, Katharine N., 61
Thalwitzer, Mario, 67
Theeuwes, Jan, 59, 65
Thierry, Guillaume, 51
Thompson, Benjamin, 47
Thompson, Dominic, 63
Thompson, Robin, 45
Thornton, Ian M., 50
Throneburg, Zachary W., 49
Tiemeier, Henning W., 48
Tiffin-Richards, Simon Patrick, 58
Tinio, Pablo, 71
Titone, Debra A., 41, 42
Tousley, Elias, 33
Toyoshima, Hisashi, 38
Traub, Franziska, 43
Treija, Elina, 39
Triesch, Jochen, 32
Trukenbrod, Hans A., 46, 66, 73
Truszczyński, Olaf, 72
Tsai, Jie-Li, 47
Tsotsos, John K., 25, 32
Tudge, Luke, 46
Turcan, Alexandra, 51
Turuwhenua, Jason, 47
Tvarozek, Jozef, 70

U
Ueda, Hiroshi, 46
Underwood, Geoffrey, 72
Uschi, Cop, 55

V
Valdois, Sylviane, 31
Valsecchi, Matteo, 32
Valuch, Christian, 58, 60, 71
Van Assche, Eva, 42
van der Geest, Jos N., 32, 38, 40, 48, 63
van der Linden, Lotje, 32, 37, 47, 57
Van der Stigchel, Stefan, 41, 45, 47, 57, 61
Van der Stoep, Nathan, 41
van der Vliet, Rick, 48
Van Dyke, Julie A., 31, 37, 63
Van Eetvelde, Veerle, 66
van Gog, Tamara, 34, 35
van Leeuwen, Cees, 52, 61
van Marlen, Tim, 35
Van Meeuwen, Ludo, 31
van Merriënboer, Jeroen, 62
Van Schuerbeeck, Lise, 72
Vansteensel, Mariska, 45
Vanvuchelen, Marleen, 72
van Wermeskerken, Margot, 34, 35
van Zoest, Wieske, 34, 38, 57, 64, 65
Varatharajah, Alexander, 52
Vardi, Ilan, 43

DOI 10.16910/jemr.8.4.2
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ISSN 1995-8692

Vaughan-Evans, Awel Hydref, 51
Veldre, Aaron, 65
Venini, Dustin, 40
Venjakob, Antje Christine, 70
Vennekötter, Alina, 71
Verfaillie, Karl, 46
Verghese, Preeti, 38
Vergilino-Perez, Dorine, 38
Vetter, Petra, 56
Vig, Eleonora, 58
Vitu, Françoise, 26, 32, 37, 53
Võ, Melissa Le-Hoa, 40, 49, 57, 66
von der Malsburg, Titus, 36
von Mühlenen, Adrian, 48
Vorstius, Christian, 31, 47, 65, 71, 73
Vulchanova, Mila, 44

W
Wade, Kimberly, 48
Wagner, Michael, 70
Walcher, Sonja, 35
Walker, Robin, 26, 37, 43, 48
Wang, Aiping, 42
Wang, Chin-An, 44
Wang, Dong, 52
Wang, Fuxing, 62
Wang, Jingxin, 40, 45, 63
Wang, Jing-Yi, 61
Wang, Mengsi, 56
Wang, Ruimeng, 50, 61
Wang, Yang, 50, 61
Wang, Yongsheng, 40, 63, 72
Wardhani, Intan, 40
Warrington, Kayleigh L., 33
Wase, Cara, 43
Watanabe, Katsumi, 46
Watanabe, Masayuki, 41
Weal, Mark J., 54
Weaver, Matthew D., 34, 57
Weber, Frederik D., 61
Weibel, David, 54
Weichselbaum, Hanna, 60
Weiß, Katharina, 46, 56
Wende, Kim, 32
Wentura, Dirk, 59
Wenzlaff, Frederike, 46
Wetzel, Stefanie, 35, 36
Wexler, Mark, 32
White, Brian J., 44
White, Sarah J., 33, 37, 63
Whitford, Veronica M., 41, 42
Wilbers, Anne-Kathrin, 46, 71
Wild, Klaus-Peter, 62
Williams, Glenn Patrick, 41
Williams, Louis, 71
Willmes, Klaus, 61
Wolf, Christian, 55, 57
Wolfe, Jeremy M., 40, 66
Wolohan, Felicity Denise Angela, 37
Womelsdorf, Thilo, 44
Worf, Lucy C., 67
Wu, Esther Xiu Wen, 37
Wu, Jie, 48
Wu, Mengxuan, 48

X
Xie, Fang, 45, 63
Xie, Heping, 62

Y
Yalcin, Özge Nilay, 56
Yamaguchi, Yasushi, 46
Yamanoi, Takahiro, 38
Yan, Guoli, 36, 40, 47, 63, 72, 73
Yan, Ming, 42, 65
Yang, Haibo, 50, 61
Yen, Shih-Cheng, 37
Yip, Michael C. W., 73
Yonemura, Tomoko, 38
Yu, Chen-Ping, 42
Yu, Chung-San, 49
Yu, Lili, 73
Yuval-Greenberg, Shlomit, 34, 37

Z
Zander, Steffi, 36
Zang, Chuanli, 40, 63, 72
Zelinsky, Gregory, 37, 42
Zemblys, Raimondas, 52
Zeng, you jia, 54
Zerr, Paul, 61
Zhai, Minna M., 73
Zhang, Manman, 63
Zhang, Yi, 50, 61
Zhao, Xin, 50, 61
Zhou, Yuefang, 35
Zimmermann, Julia, 37
Zinno, Angela, 33

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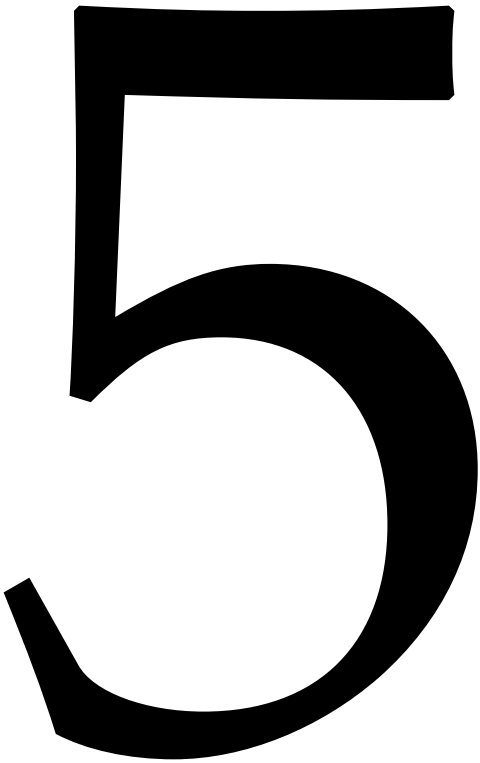

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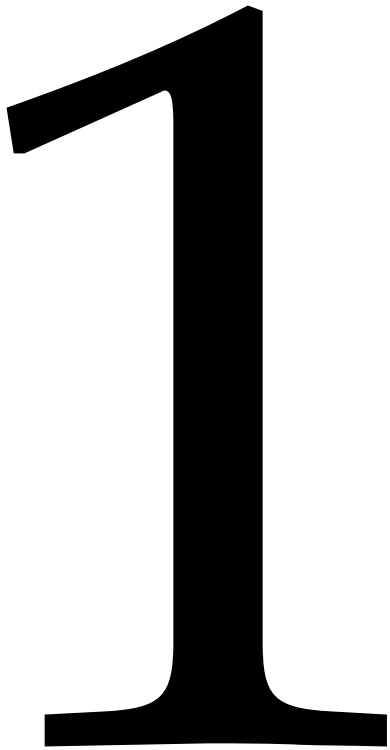

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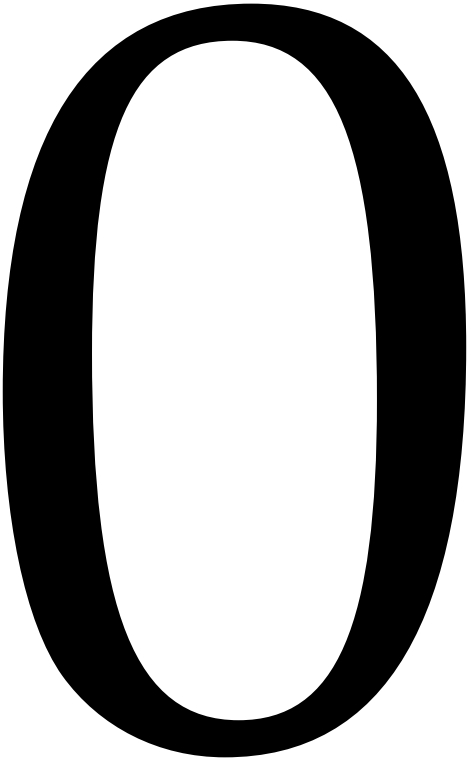

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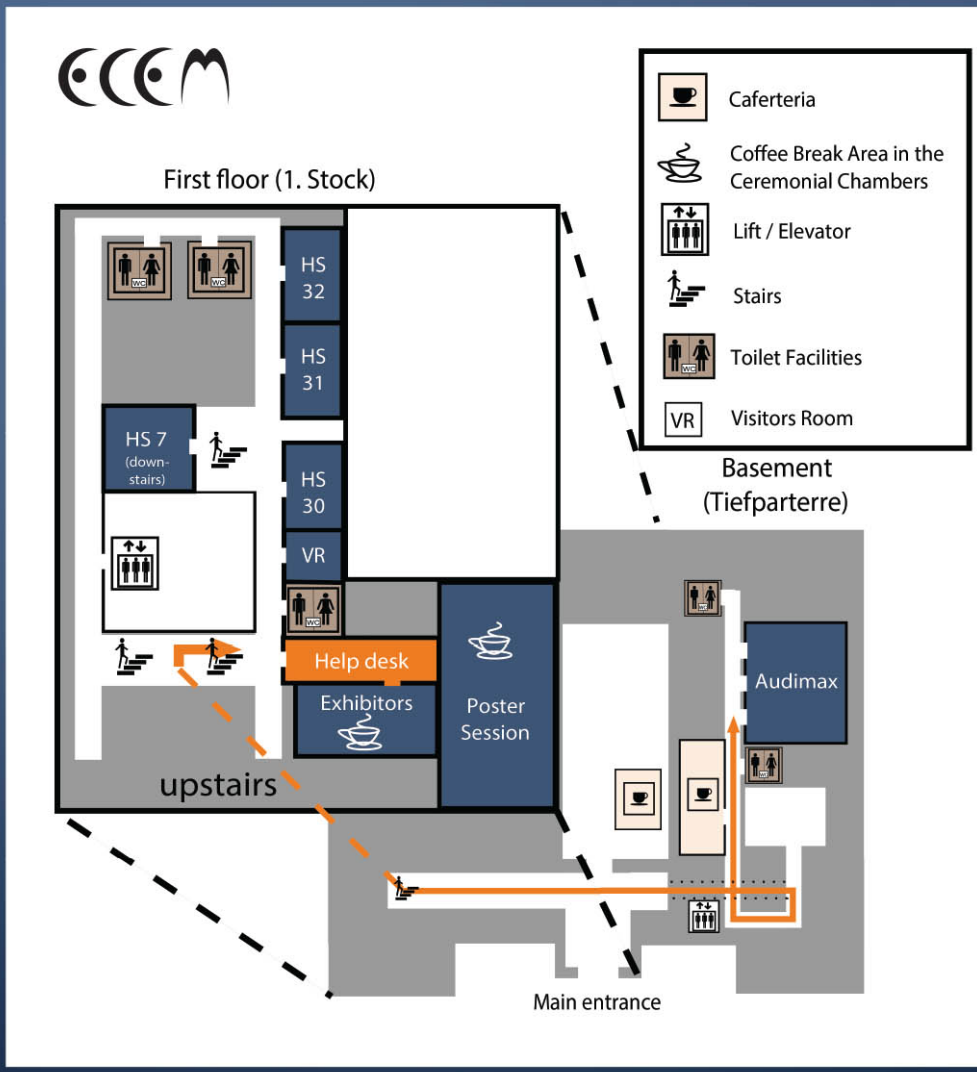

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