

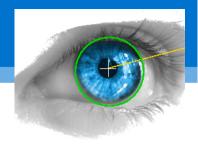
# 1st International Workshop on Pervasive Eye Tracking and Mobile Eye-Based Interaction - PETMEI 2011

Andreas Bulling
University of Cambridge / Lancaster University, UK

Andrew T. Duchowski Clemson University, USA

Päivi Majaranta University of Tampere, Finland

## We'll see rather formal presentations...



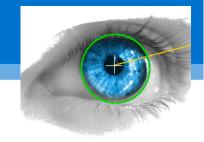
## ... but please still

- 1) ask questions during and after each presentation
  - 2) discuss lively during the breaks
- 3) write down any implications, challenges or applications that come to your mind

in order to foster interaction, boost novel ideas and prepare for the plenary discussion.

Thanks! ;-)

#### Thanks to the PC members



Hirotaka Aoki, Tokyo Institute of Technology, Japan

Roger Carpenter, University of Cambridge, United Kingdom

Anind Dey, Carnegie Mellon University, USA

Hans Gellersen, Lancaster University, United Kingdom

Mary M. Hayhoe, University of Texas, USA

Per Ola Kristensson, University of St Andrews, United Kingdom

Antonio Krüger, German Research Center for AI, Germany

Alexander de Luca, Ludwig-Maximilians-University Munich, Germany

Walterio Mayol, University of Bristol, United Kingdom

Antti Oulasvirta, Helsinki Institute for Information Technology, Finland

Pernilla Qvarfordt, FX Palo Alto Laboratory, USA

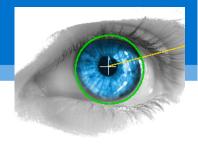
**Albrecht Schmidt**, University of Stuttgart, Germany

Sophie Stellmach, University of Magdeburg, Germany

Martin Tall, Duke University, USA

Shumin Zhai, Google Research, USA

## Thanks to our sponsors



#### Champion



#### **Contributors**











#### Institutional

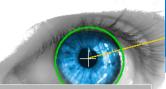








## **Program**



| 09:00 – 10:00 | Jeff B. Pelz (Keynote) Semantic Analysis of Mobile Eye Tracking Data  Coffee break   |
|---------------|--|
| 10:30 – 11:00 | Jurek Breuninger, Christian Lange and Klaus Bengler Implementing Gaze Control for Peripheral Devices   |
| 11:00 – 11:30 | Yanxia Zhang, Andreas Bulling and Hans Gellersen Discrimination of Gaze Directions Using Low-Level Eye Image Features  |
| 11:30 – 12:00 | Mélodie Vidal, Andreas Bulling and Hans Gellersen  Analysing EOG Signal Features for the Discrimination of Eye Movement with Wearable  Devices  Lunch break              |
| 13:15 – 13:45 | Shiwei Cheng The Research Framework of Eye-tracking Based Mobile Device Usability Evaluation   |
| 13:45 – 14:15 | Haiwei Dong and Zhiwei Luo Human Factor Affects Eye Movement Pattern during Riding Motorcycle on the Mountain  |
| 14:15 – 14:30 | Jayson Turner, Andreas Bulling and Hans Gellersen Combining Gaze with Manual Interaction to Extend Physical Reach  |
| 14:30 – 15:00 | Xinyong Zhang, Pianpian Xu, Qing Zhang and Hongbin Zha<br>Speed-accuracy Trade-off in Dwell-based Eye Pointing Tasks at Different Cognitive Levels                       |
| 15:00 – 15:30 | Aiko Hagiwara, Akihiro Sugimoto and Kazuhiko Kawamoto Saliency-Based Image Editing for Guiding Visual Attention  |
| 16:00 – 16:15 | Chip Tonkin, Andrew Duchowski, Joshua Kahue, Paul Schiffgens and Frank Rischner  Eye Tracking Over Small and Large Shopping Displays                                     |
| 16:15 – 16:30 | Geert Brône, Bert Oben and Toon Goedemé Towards a more effective method for analyzing mobile eye-tracking data: integrating gaze data with object recognition algorithms |
| 16:30 – 17:15 | Demo session   |
| 17:15 – 18:00 | Plenary discussion   |
|               |  |

## Joint dinner



#### **Quanjude Roast Duck Restaurant**

http://chinabites.com/beijing/restaurants/quan-ju-de/57/

#### Time:

7:00 pm (10 minute walk)

#### Address:

Haidian District, 1 Zhongguancun Dong Lu, (Inside Qinghua Science Park)

#### **Chinese Address:**

海淀区中关村东路 1 号院 (清华科技园科技大厦 A 座 1 楼)

#### Phone:

82150018 82151015



## Let's get started...



### Pervasive eye tracking

Continuous eye monitoring and analysis 24/7

→ unobtrusive eye-based human-computer interfaces that will become pervasively usable in everyday life

