

## Program

9:00 a.m. Welcome note  
Doctoral Symposium Co-Chairs

### STUDENT PRESENTATIONS

9:15 a.m. *Isolating the adaptive element of tonic convergence & divergence*  
Ian M. Erkelens, University of Waterloo, School of Optometry & Vision Science

9:30 a.m. *Diagnosis of spatial thinking using eye tracking and pupillometry*  
Benedict C.O.F. Fehringer, Department of Psychology of Education, University of Mannheim, Germany

9:45 a.m. *Pupil Size as an Indicator of Neurochemical Activity During Learning*  
Russell Cohen Hoffing, Department of Psychology, University of California Riverside

10:00 a.m. *Modified DBSCAN Algorithm on Oculomotor Fixation Identification*  
Beibin Li, Child Study Center, Yale University

10:15 a.m. *Hybrid model and appearance based eye tracking with Kinect*  
Kang Wang, Rensselaer Polytechnic Institute

10:30 a.m. Coffee Break

10:45 a.m. *Low-latency eye tracking for eye motion compensation in high-resolution ophthalmoscopy*  
Juan Liu, Department of Biomedical Engineering, Marquette University, Wisconsin

11:00 a.m. *Eye Tracking for Human Robot Interaction*  
Oskar Palinko, Istituto Italiano di Tecnologia, Genova, Italy

11:15 a.m. *Optimality of the Distance Dispersion Fixation Identification Algorithm*  
Beibin Li, Child Study Center, Yale University

11:30 a.m. *How do you look at what you touch? A study of touch interaction and gaze correlation on tablets*  
Pierre Weill-Tessier, Lancaster University

11:45 a.m. *Developing Instantaneous Eye-Activity Based Task Analysis*  
Hoe Kin Wong, University of New South Wales, Australia

Noon Lunch

### 1:30 p.m. SMALL GROUP DISCUSSIONS

2:30 p.m. Coffee Break

### 3:00 p.m. LARGE GROUP DISCUSSIONS

Short summaries from group work  
Conclusions

3:50 p.m. Closing remarks  
Doctoral Symposium Co-Chairs