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 pupilometry
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