CLINICAL APPLICATIONS OF SMART GLASSES

Friday, December 12th, 9.30 – 17.30.

Location: Noordhorst 205, Horst Building (20) at campus University of Twente
Drienerlolaan 5, Enschede, The Netherlands

During this event, international speakers will present their work on clinical applications of smart glasses, a new technological platform with great potential to support patients with sensory, motor, or cognitive deficits. The department of Biomedical Signals and Systems (BSS, MIRA) will present the results of a pilot study on cueing in patients with Parkinson's disease using the Google Glass. Moreover, there will be speakers from the universities of Newcastle, Barcelona, Munster and Leuven. The objective of this symposium is to stimulate collaboration and innovative projects concerning the use of smart glasses by patients.

More information and enrolment, mailto: e.j.m.storcken@utwente.nl

9.00 – 9.15   Richard van Wezel   (University of Twente/ Radboud University, Netherlands)
Opening

9.15 – 9.45   Andrew Spink (Noldus, The Netherlands)
Smart glasses and the behavior of their users

9.45 – 10.15   Hans Supèr (Univ. Barcelona, Spain)
Eye vergence as a measure of cognitive visual processing

10.15 – 10.45   Marten den Uyl (VicarVision, The Netherlands)
Automatic analysis of face expressions

10.45 – 11.15   *Coffee/Tea*

11.15 – 11.45   Yan Zhao (University of Twente, The Netherlands)
Smart Glasses for Parkinson Patients

11.45 – 12.15   Markus Lappe (University of Münster, Germany)
A virtual reality system for the enhancement of mobility in patients with chronic back pain

12.15 – 12.45   Martin Dresler (Radboud University, The Netherlands)
A memory palace made of glass: mnemonic training with smart glasses applications

12.45 – 13.45   *Lunch*

13.45 – 14.15   Roisin McNaney (Newcastle University, United Kingdom)
Designing for and with people with Parkinson's

14.15 – 14.45   Thea van der Geest (University of Twente, The Netherlands)
Smart Glasses for visually impaired persons

14.45 – 15.15   George Azzopardi (University of Groningen, The Netherlands)
Trainable object localization and recognition

15.15 – 15.45   *Coffee/Tea*

15.45 – 16.15   Almar Klein (Cinoptics Enschede, The Netherlands)
Visualization aspects in applications for HMD's and Smart Glasses

16.15 – 16.45   Peter Veltink (University of Twente, The Netherlands)
Ambulatory assessment of human movement performance – input to and/or perturbation by smart glasses?

16.45 – 17.15   Ben van der Harg (University of Twente, The Netherlands)
Smart Glasses: philosophical and ethical considerations

17.15 – 17.45   Pieter Ginis (KU Leuven, Belgium)
The CUPID project: what can we learn about intelligent cueing to improve the gait in patients with Parkinson's disease

17.45 – 18.30   *Drinks*