

Program for the workshop:

Safety Critical Human Cyberphysical Systems

in celebration of 40 years of collaboration between Groningen and Oldenburg Universities

Date: October 29th, 2020 Time 9-15 hrs.

9.00-9.10 Welcome – Martin Fränzle (vice president research)

9.10-9.30 Susanne Boll/Martin Fränzle/Topic: Coordinated research programs at UOL

Impulse Talks

9.30-9.45 Dick de Waard (RUG, Psychology) – Human behaviour in cyber-physical systems in traffic - automated driving

9:45-10.00 Anirudh Unni, Jochem Rieger (UOL, Psychology) – Characterizing and modeling human states in human-CPS interactions at the brain-level

10.00-10.30 Discussion

10.30-10.40 Break

10.40-10.55 Jelmer Borst (RUG, Human Modeling/AI) – Interrupted by your Pupil: Scheduling Interruptions based on Pupil Dilation.

10.55-11.10 Maike Schwammberger, Martin Fränzle (UOL, Computer Science) – Safe Controllers for Autonomous Urban Traffic Manoeuvres -- Bringing together Formal Methods and Reality.

11.10-11.25 Bart Besselink (RUG, Non-linear control systems) – Towards a contract theory for modular design of cyber-physical systems

11.25-11.55 Discussion

Lunchbreak 11:55-12.40

12.40-12.55 Dario Bauso (RUG, Game theory) – Title

12.55-13.10 Christoph Herrmann (UOL, Psychology) – Psychology and Psychophysiology in Cyber-Physical-Systems such as autonomous vehicles

13.10-13.40 Discussion

13.40-13.55 Hedderik van Rijn (RUG Psychology, Bayesian models) – Title

13.55-14.25 Andreas Hein (UOL, Health sciences) – Human-Cyber-Physical Systems for Elderly Care

14.25-14.55 Discussion