

Program VvBN PhD-day 2015
‘Enabling technology for human functioning’

Thursday September 24, 2015

University of Twente
Drienerlolaan 5
Enschede
Building Zuidhorst
Room ZH 286

9.30 Welcome and coffee

10.00 Opening – Prof. dr. Miriam Vollenbroek

10.05 Keynote Lecture Prof. dr. Wim de Ridder

Podium presentations

10.35 An mHealth intervention for physical activity coaching in cancer survivors
Marije Wolvers – Roessingh Research and Development

10.50 Systematic review of the effects of biofeedback during gait retraining in orthopaedic or musculoskeletal conditions
Rosie Richards – MOVE Research Institute/VU University Medical Center

11.05 PERSSILAA project: Sensitivity of a screening method to identify (pre)frailty among older adults
Sanne Frazer – Roessingh Research and Development

11.20 Kinematic validation of the Interactive Walkway for quantitative gait assessments
Daphne Geerse – MOVE Research Institute/VU University Medical Center

11.35 Coffee Break

Podium presentations

- 11:50 A new leg prosthesis to improve lateral balance in prosthetic walking
Esar van Hal – University Medical Centre Groningen
- 12.05 Investigating the effect of shear on skin viability, in relation to the development of pressure ulcers.
Iris Hoogendoorn – University of Twente/Roessingh Research and Development
- 12.20 Visualization of shoulder range of motion for clinical diagnostics
Arno Stienen – University of Twente
- 12.35 Poster pitches
1. An technology enhanced home-based exercise program to improve daily activity performance in community dwelling older adults; design of a randomized controlled trial.
Tessa Dadema – Amsterdam School of Health Professions
 2. An inverse dynamic analysis on the influence of lower arm support on persons with FSHC during reaching.
Hans Essers – Maastricht University
 3. Muscle activity during Robot Assisted Gait: the differences with treadmill walking and the effects of Guidance.
Klaske van Kammen - Revalidatie Friesland / University Medical Centre Groningen
 4. Effect of tsDCS applied with different electrode configurations on the lumbar spinal circuits.
Alexander Kuck – University of Twente
 5. Stability recovery after tripping is not predicted by static posturography in vestibular disorder patients.
Christopher McCrum – Maastricht University
 6. Coordination of trunk, head and arm movements during functional tasks.
Laura Peeters – Radboud University Medical Centre
 7. Towards intuitive multi-DOF EMG-based control of active arm supports for men with Duchenne muscular dystrophy: design of an artificial neural network to map EMG to force.
Joan Lobo Prat – University of Twente
 8. Validity of two commercially available activity monitors in determining physical activity, sedentary time and breaks.
Maik Sliepen – University of Münster
- 13.00 Lunch, information market, posters
- 14.00 Keynote Lecture Prof. dr. ir. Vanessa Evers

Podium Presentations

- 14.30 LOPES II – Design and evaluation of an admittance controlled gait training robot with shadow-leg approach
Jos Meuleman – MOOG BV/University of Twente
- 14.45 Technology-supported versus usual arm and hand training at home in chronic stroke
Sharon Nijenhuis – Roessingh Research and Development
- 15.00 Does flexibility in reaching movements increase through training?
Inge Tuitert – Aix-Marseille Université/University Medical Center Groningen
- 15.15 Coffee break

Podium Presentations

- 15.30 Alerting older cyclists for traffic approaching from behind: two modalities of warnings compared
Carola Engbers – Roessingh Research and Development
- 15.45 C-Gait: patient-tailored C-Mill gait adaptability training
Celine Timmermans - MOVE Research Institute/VU University Medical Center
- 16.00 Enhance – intention based enhancement of reaching and grasping during daily life tasks in the homes of stroke patients
Anne van Ommeren – Roessingh Research and Development
- 16.15 Hand and wrist orthoses for home-based post-stroke rehabilitation
Serdar Ates – University of Twente
- 16.30 Closing and drinks