

GERMAN SPORT UNIVERSITY COLOGNE



# iStoppFalls Symposium Programme 2014

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04.08.2014



Friday 24 October 2014

8.30-17.00 Registration

**Welcome address (Hörsaal 2)**

9.30-9.45 Prof. Dr. H. Strüder (Rector, German Sport University Cologne),(Subject to approval)

9.45-10.00 Prof. W. Zijlstra (Head Institute of Movement and Sport Gerontology, German Sport University Cologne)

10.00-10.15 Dr. R. Wieching (iStoppFalls project coordinator, University of Siegen)

**Poster Session to run throughout Day 1. All presenters will be available during coffee breaks to answer questions.**

	Session 1a (SR 14/15) Chair	Physical Activity & Fall Prevention Yves Gschwind (Neuroscience Research Australia)	Session 1b (SR 14/15) Chair	Research Methods Karl Kreiner (Austrian Institute of Technology)
<u>10.35-10.55</u>	Fall prevention in older adults: views from end-users: Heidrun Mollenkopf (Die BundesarbeitsGemeinschaft der Senioren-Organisation)		Quality of life an ICT: Hannah R. Marston (German Sport University Cologne)	
<u>10.55-11.15</u>	The role of technology in the current Healthcare paradigm shift: Nick Guldemon (University Medical Centre Utrecht The Netherlands)		Qualitative methods in ICT and ageing: Claudia Müller (University of Siegen)	
<u>11.15-11.35</u>	Daily life mobility and fall risk: an evaluation of the iStoppFalls randomized controlled trial: Janneke Annegarn (Philips)		Market acceptance and dissemination of iStoppFalls. Research on the enablers and barriers in the uptake and adherence of iStoppFalls and possibilities for dissemination: Elderik Kranen (Philips)	
<u>11.35-11.55</u>	Evidence-based fall prevention: FARSEEING experience: Lorenzo Chiari (University of Bologna)			

12.00- 13.30 Lunch

**13.30-14.30** **Keynote – Academic (Hörsaal 2)**  
**Dawn Skelton (Glasgow Caledonian University): Falls prevention: an update on evidence and implication for ICT**  
**Chair Michael Brach (TBC)**

	Session 2a (SR 14/15) Chair	Utilization of Sensor Technology Heribert Baldus (Philips)	Session 2b (SR 14/15) Chair	Usability/Accessibility Gunnar Stevens (University of Siegen)
<b>14.40-15.05</b>	A new method for fall risk prediction: Andreas Ejupi (Austrian Institute of Technology)		Exploring usability, accessibility and user experience of the iStoppFalls System: qualitative results from the living lab in Siegen: Corinna Ogonowski (University of Siegen)	
<b>15.05-15.30</b>	Distress detection based on multimodal data fusion for medical remote monitoring: Jerome Boudy (France Telekom and University of Technology of Troyes)		Fall Preventive exergaming in older adults: more simple or highly sophisticated? Results from qualitative studies in Germany and Australia: Konstantin Aal (University of Siegen)	
<b>15.30-15:55</b>	Chair rise transfer detection and analysis using a pendant sensor: an algorithm for fall risk assessment in older people: Wei Zhang (Philips)		Experience of flow: Hannah R. Marston (German Sport University Cologne)	

**16.00-16.30** Coffee break

	Session 3 Chair	iStoppFalls and Sure Step (Hörsaal 2) Prof. V. Wulf (University of Siegen)
<b>16.30-17.00</b>	Preliminary results of the iStoppFalls randomized clinical trial: Rainer Wieching (University of Siegen)	
<b>17.00-17.25</b>	SureStep – an interactive step training system improves balance & cognitive function in older people: Kim Delbaere (Neuroscience Research Australia)	

**17.30** **Closing of Day 1**  
**Volker Wulf (University of Siegen)**

**19.30** **Dinner at "Gaffel Brauhaus am Dom"**

**Saturday 24 October 2014**

8.30-17.00 Registration

<u>9.00</u>	Session 4a (SR 14/15) Chair	Effectiveness on Physical Performance Janneke Annegarn (Philips)	Session 4b (SR 14/15) Chair	Design & Development of Games for Health Mario Drobics (Austrian Institute of Technology)
<u>09.05-09.30</u>	Effectiveness of an ICT-based exercise program – can it be quantified through an in-home self-assessment approach? Michael Kroll (German Sport University Cologne)		<u>09.05-09.30</u>	An IT perspective on developing games for health: considerations, experiences and recommendations: Karl Kreiner (Austrian Institute of Technology)
<u>09.30-09.55</u>	Impact of combined balance and strength training on intrinsic fall-risk factors in healthy community dwelling old adults: Urs Granacher (Potsdam)		<u>09.30-09.55</u>	Motivotion60+: designing an exergame for mobility support: Michael Brach (University of Münster)
<u>09.55-10.20</u>	A differential analysis of selected factors influencing the effectiveness of iStoppFalls training program: Dennis Fink (German Sport University Cologne)		<u>09.55-10.20</u>	Principles of designing exergames: Nico Kaartinen (Kaasa)

10.30-11.00 Coffee Break

	Session 5a (SR 14/15) Chair	Effectiveness on Cognitive Performance Kim Delbaere (Neuroscience Research Australia)	Session 5b (SR 14/15) Chair	Biomechanics Prof. Zijlstra (German Sport University Cologne)
<u>11.05-11.30</u>	iStoppFalls – results and experiences from the Australian study site: Yves Gschwind (Neuroscience Research Australia)		<u>11.05-11.25</u>	New technologies for the definition and application of biomechanical models for older people balance assessment: Helios de Rosario (Instituto de Biomechánica de Valencia)
<u>11.30-11.55</u>	Effects of exergames on Cognitive performance: Sabine Eichberg (German Sport University Cologne)		<u>11.25-11.45</u>	Dynamic Stability control during perturbed walking across the adult female lifespan:

			Kiros Karamanidis (German Sport University Cologne)
<u>11.55-12.20</u>	Interaction cognitive-motor training and fall risk: Eling de Bruin (ETH Zürich)	<u>11.45-12.05</u>	Measuring functional movement in people with Parkinson's disease using the Microsoft Kinect: Brook Galna (University of Newcastle)
		<u>12.05-12.25</u>	Fall detection in wide areas and tele-assistance with a service robot: Marc Bosch Ruiz (Universidad de Valencia)

12.30-14.00 Lunch

14.00-15.00 **Keynote – Industry:**  
**Chair** Carlos Muchiutti (Philips) - Fall detection and prevention: an industry perspective (Hörsaal 2)  
Rainer Wieching (University of Siegen)

15.00-15.30 Coffee Break

	Session 6 Chair	Best Practice: Academic, Industry, and End-User (Hörsaal 2) Sabine Eichberg (German Sport University Cologne)
<u>15.30-16.15</u>	SilverFit: from idea to product. Computer games to make rehabilitation for elderly people inviting and fun: Joris Wiersinga (SilverFit)	
<u>16.15-16.45</u>	Fall prevention as social business – return of investment by improving health and mobility: Georg Aumayr (Head of Research Department for Johanniter in Austria)	
<u>16.45-17.15</u>	Fall prevention assessment and exercises – Practical use and motivation: Harald Jansenberger (Institute of Jansenberger)	

17.15-17.30 Closing Remarks - End of Conference Rainer Wieching (University of Siegen)