

9<sup>th</sup> Workshop in Speckled Computing

24-25 November 2010

Room G.07
School of Informatics
10 Crichton Street

**Edinburgh EH8 9AB** 

### **24 November 2010**

# **Session 1: Speckled Interactions**

08:15	Registration and coffee in the Café
08:45	Welcome and Introduction  D K Arvind (School of Informatics, University of Edinburgh)
09:00	"Spatial Reasoning about Human-Robot Interactions" Aris Valtazanos (School of Informatics, University of Edinburgh)
09:30	"Validation of a Distributed Estimation Algorithm for Mobile Gait Analysis using Specknet"  Alexander Pappe (Otto Bock Gmbh, Duderstadt, Germany)
10:00	"Experimental Measurement of Dynamic Loads of Structures Induced by Groups and Crowds" Vitomir Racic (Department of Civil & Structural Engineering, University of Sheffield)
10:30	Refreshments in the Café
11:00	"Interactive Music Systems and Sensor Technologies" Marc Leman (IPEM, Ghent University, Belgium)
11:30	"Body-Based Gestures and Social Acceptability" Stephen Brewster (School of Computing Science, University of Glasgow)
12:00	"Aerodynamic Speech Database – the New Questions" Didier Demolin (GIPSA Laboratory, Grenoble, France)
12:30	Lunch in the Café and the Atrium
13:00	"Speckled Flamenco Dancer" Mariza Dima (Edinburgh College of Art)



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13:15 Welcome and opening of the Centre for Speckled Computing Sir Timothy O'Shea (Principal, The University of Edinburgh)

### **Session 2: Thematic Talks**

13:30	"Better Monitoring of the Acutely III Patient" Gordon Drummond (Royal Infirmary of Edinburgh)
14:00	"Using Specknets to Understand Land-Atmosphere Interactions at Multiple Scales"  Mathew Williams (School of Geosciences, University of Edinburgh)
14:30	"Anticipating Behaviour" Alan Murray (Edinburgh College of Art)
15:00	Refreshments in the Café

## **Session 3: Speckled Healthcare**

15:30	"COPD and Activity Monitoring" William McNee (Royal Infirmary of Edinburgh) & Roberto Rabinovich (The Queen's Medical Research Institute)
16:00	"Remote monitoring in COPD - What's Missing?" Brian McKinstry (Centre for Population Health Sciences, University of Edinburgh) & Janet Hanley (NHS Lothian)
16:30	"The Use of Specks in Gait Analysis" Alison Richardson & Jennifer Walsh (Astley Ainslie Hospital, Edinburgh)
17:00	"Alarming Seizures" Kamath Tallur (Royal Hospital for Sick Children, Edinburgh)
17:30	"Applications of Speckled Computing in Sleep Disorders" Renata Riha (Royal Infirmary of Edinburgh)
18:00	Canapé Reception in the Café and the Atrium



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## **25 November 2010**

# **Session 4: Monitoring in the Natural Environment**

08:15	Registration and coffee in the Café
09:00	"The Need for Real-Time REDOX Measurement in Freshwater Ecology" Bryan Spears & Bernard Dudley (Centre for Ecology & Hydrology, Edinburgh)
09:30	"Development of a Real-Time, <i>in situ</i> REDOX Sensor for Monitoring Microbial Sediment Processes"  Andrew Free (School of Biological Sciences, University of Edinburgh)
10:00	"Using Specknets to Measure Crop Stress and Forecast Disease" Simon Oxley (Scottish Agricultural College)
10:30	"Linking Soil Carbon Distribution and Physicochemical Conditions in a Heterogeneous Arctic Landscape"  Audrey Wayolle (University of Stirling)
11:00	Refreshments in the Café
	SLIP Students' Showcase (Level 3, Appleton Tower)
11:30	"Flexible Environmental Monitoring of Buildings" Nicky Ellakirk, Marco Elver, Ivan Konstantinov, Peter Nock & Marciej Soczka
12:00	"On-body Indoor Navigational Assistance for the Visually-impaired" Igor Czerwinski, Dimo Iliev, James McKeown & Tsveta Stoyanova
12:30	"Awesomegotchi – Proximity Gaming for Social Networking" Marcin Bot, Mateusz Byczkowski, Ross Hamilton, Andrew Sogokon & Harry Wagstaff
13:00	Lunch in the Café and the Atrium



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## **Session 5: Monitoring in the Built Environment**

14:00	"Crowd Flow Modelling and the Future Benefits of Speckled Computing" David Brocklehurst (Buro Happold)
14:30	"Video Tracking of Human Activity and Voice Recognition Co-combined in Augmented Interactive Performance Environments"  Simon Biggs (Edinburgh College of Art)
15:00	"Tales of Things and other Ghost Stories" Chris Speed (Edinburgh College of Art)
15:30	Refreshments in the Café
16:00	"Evaluating the Performance of Occupied Buildings – An Opportunity for Specks?"  Zack Gill, Buro Happold
16:30	"Tacit Knowledge to Embodied Interaction: Specks in 'Research by Design' " Mark Wright (School of Informatics, University of Edinburgh and Edinburgh College of Art)
17:00	"Algorithmic Challenges for Sensor Networks in Environmental Monitoring" Sotiris Nikoletseas (Computing Technology Institute, University of Patras)
17:30	Canapé Reception in the Café and the Atrium