

## BSN 2012 Demos and Research Showcase

---

### 10 May 2012

11:55 – 12:30 (3 minute presentations)

Comparison of Median Frequency Between Traditional and Functional Sensor Placements during Activity Monitoring; Jeroen Bergmann\*, Imperial College London; Selina Graham ; Alison McGregor

Introducing Wearability to Bioimpedance Spectroscopy Measurements; Saim Kim\*, RWTH Aachen University; Thomas Schlebusch, RWTH Aachen University; Lisa Röthlingshöfer ; Guillermo Medrano, RWTH Aachen University; Steffen Leonhardt

Advanced Security System by Sensing Muscle Activation; Kalanyu Zintus-art\*, Tokyo Institute of Technology; Koike Yasuharu, Tokyo Institute of Technology; Kambara Hiroyuki, Tokyo Institute of Technology; Natsue Yoshimura, Tokyo Institute of Technology

Soccer Exergaming: A Platform for Energy Expenditure Video Games, Bobak Mortazavi, Majid Sarrafzadeh; Bobak Mortazavi, Computer Science Department, University of California Los Angeles

A 3 lead ECG ambulatory monitor with ultra low power Analog Front End and Digital Signal Processor for artefact reduction and beat detection; Dilpreet Buxi, Torfinn Berset, Marc Tutelaers, Nick van Helleputte, Sunyoung Kim, Refet Firat Yazicioglu, Jan Stuijt, Jos Hulzink, Martijn Hijdra, Julien Penders and Chris van Hoof (imec The Netherlands), presented by: Torfinn Berset / Julien Penders (imec The Netherlands)

Three Novel Analog Filters (50/60Hz Notch , 0.05Hz High Pass and 250 Hz Low Pass Filter) for ECG Acquisitions; Lei Wang and Haixi Li, Shenzhen Institutes of Advanced Technology, Chinese Academy of Science

Advanced Security System by Sensing Muscle Activation ; Kalanyu Zintus-art , Natsue Yoshimura, Hiroyuki Kambara, Yasuharu Koike, Tokyo Institute of Technology

Design, Implementation and Performance Analysis of a Compact Super Wide Band Textile Antenna for Monitoring Application; Shaad Mahmud , American International University-Bangladesh Dhaka, Bangladesh, Bushra Mahjabeen , Ahsanullah University of Science Technology, Dhaka

WANDA: An End-to-End Remote Monitoring System; Mars Lan, Hassan Ghasemzadeh, Majid Sarrafzadeh, Wireless Health Institute, University of California, Los Angeles

Model-Based Development of Pervasive Health Monitoring Systems; Ayan Banerjee, Sunit Verma, Priyanka Bagade, Joseph Milazzo and Sandeep K.S. Gupta, IMPACT Lab, Arizona State University, Tempe, USA

Measuring skiing performance using a Body Sensor Network, Presenting: Thomas Homewood & Razee Hussein-Jamal, WiseNet, Uppsala University, Sweden, Per Gunningberg, Project supervisor, WiseNet / CoRe, Uppsala University

Microfluidic device for colorimetric analysis of sweat; V.F. Curto, C. Fay, S. Coyle, D. Diamond, F. Benito-Lopez; CLARITY: Centre for Sensor Web Technologies, National Centre for Sensor Research, Dublin City University, Dublin, Ireland