



Seminar

5G Innovation Centre, 02 CII LG

9 May 2017 @ 11:15



Dr Pete Woznowski and Dr Alison Burrows

University of Bristol

SPHERE - Sensor Platform for HEalthcare in a Residential Environment

The SPHERE project was established with the aim of developing a smart home system, which integrates a combination of off-the-shelf and in-house developed sensors to monitor people's health and wellbeing in the home. Within SPHERE, we are aware that designing effective home healthcare technologies means developing solutions that are flexible and that reflect a sensitive understanding of the diverse users of such systems. To achieve this, the SPHERE system was developed alongside early and sustained user involvement. This talk comprises two presentations by Dr Pete Woznowski and Dr Alison Burrows, who are respectively working on Design, Deployment and Monitoring, and User-Centred Design. Pete will present the architecture of the SPHERE system and discuss the main challenges of deploying the system in up to 100 homes. Alison will present various completed and ongoing user studies, which are contributing to a better understanding of how to design smart home technologies for health and wellbeing.

Dr Pete Woznowski is a Senior Research Associate in IoT networking for SPHERE at the University of Bristol, with specialization in Sensor Informatics. He is interested in serialising the vision of ubiquitous computing, in which diverse sensors residing in our surroundings provide services that a single device cannot. The applications that emerge from this approach can be used, for example, to monitor patients' recovery in their own homes.

Dr Alison Burrows is a Research Associate in User-Centred Design for SPHERE at the University of Bristol. Her role involves collaborating, advising and assisting SPHERE researchers in applying user-centred and participatory design methods to deliver technology that is appropriate and desirable to the stakeholders. The User-Centred Design methodology reflects the particular challenges of investigating the uses of health sensing systems in the home environment, including cultural probes, technology probes and proxies.

SPHERE was awarded a grant of £12 million by EPSRC. The total project investment to date is £15 million.

<http://www.irc-sphere.ac.uk/>

<https://vimeo.com/170587017>

<https://vimeo.com/170160813>