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www.wearable-technologies-conference.de

REFERENT / SPEAKER

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VITA



Paul Lukowicz has a MSc (Diploma) in Computer, a MSc (Diploma) in Physics and a Ph.D in Computer Science all from the University of Karlsruhe in Germany. After his Ph.D Paul Lukowicz went to ETH Zurich where built up the wearable computing group with a strong focus on activity and context recognition.

He then went on to Professorship in Computer Engineering at the University of Medical Informatics and Technology in Hall in Tirol, Austria (UMIT) where his group worked on health related applications of pervasive computing and context recognition. This included leading a large project focused on activity tracking in nursing sponsored by the Austrian HITT (Health Information Technology) competence centre. Since 2006 Paul Lukowicz is a full Professor of Computer Science and Head of the Embedded Systems Lab at the University of Passau, Germany. Paul Lukowicz has been involved with numerous European FP5 and FP6 and has led the development of several generations of wearable computing and sensing devices.

ABSTRACT

Innovative High Tech-Accessories with Wearable Technologies

Wearable systems that capture simple motion parameters such as step count, running speed or even step length are now common and available as commercial products. This presentation will explore wearable sensing concepts that go beyond such basic setups. The main part will discuss the use of force sensors (FSRs: Force Sensitive Resistors) integrated in running tights to monitor muscle activity. We will describe the general idea and potential applications. As proof of concept system Wearable systems that capture simple motion parameters such as step count, running speed or even step length are now common and available as commercial products. This presentation will explore wearable sensing concepts that go beyond such basic setups. The main part will discuss the use of force sensors (FSRs: Force Sensitive Resistors) integrated in running tights to monitor muscle activity. We will describe the general idea and potential applications. As proof of concept system jointly developed by Falke AG and the University of Passau will be presented.

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