Keynote: Context to the People

What will it take to make activity recognition systems suitable for consumer applications?

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ABSTRACT
With the advance of sensor enabled smart phones simple context awareness has become a mainstream feature. Commercial apps routinely use location knowledge for the delivery of customized information or fostering social interaction. There are also scores of apps that analyse modes of locomotion for purposes such as calories calorie expenditure assessment or exercise support. On the other hand, more detailed recognition of human activities and complex situations has so far had very little impact on real-life applications.

That talk will look at factors that prevent wide spread use of complex activity recognition and discuss research that works to mitigate those factors. Topics will include working with dynamic, opportunistic sensor configurations, collaborative recognition and new sensing modalities.

BIOGRAPHY
Paul Lukowicz is a scientific director at DFKI (German research center for artificial Intelligence) Kaiserslautern leading the Embedded Intelligence group and a professor of computer science at the university of Passau in Germany. He has a MSc in Computer Science, an MSc. in Physics and a Ph.D. in Computer Science from the University of Karlsruhe, Germany. His research interests include ubiquitous sensing, context awareness, wearable computing, pervasive healthcare, and self-organized systems.