



Pro²Future Scientific Symposium on
**SUSTAINABLE AND COGNITIVE
PRODUCTS AND PRODUCTION SYSTEMS**
of the Future



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DFKI Kaiserslautern - Embedded Intelligence

The Future is Cognitive - Why smaller is better: Edge Embedded AI for Smart Production



Abstract

The talk will discuss various applications of AI in smart production. In particular in relation with IoT (Internet of Things) and sensor systems. It will focus on the question of “How to realize such applications with limited local computational resources available on embedded devices”.

Short Bio

Prof. Dr. Paul Lukowicz is Full Professor of AI at the RPTU in Kaiserslautern, Germany and at the same time is Scientific Director at DFKI Kaiserslautern, where he heads the Embedded Intelligence group. Previous positions include Full Professor of Embedded Systems at the University of Passau, Germany and Full Professor in the Computer Engineering Dept. at the University for Health Sciences, Medical Informatics and Technology in Innsbruck, Austria. His research focusses on context aware ubiquitous and wearable systems, including sensing, pattern recognition, system architectures, models of large scale self-organized systems, and applications. Currently Paul Lukowicz is running a wide range of German national and EU projects.

He is Coordinator of the HumanE AI-Net, a large networking project with more than 50 European partners and acts as Editor for various scientific publications. He has served on more than 50 program committees (including TPC Chair) at high-quality international conferences of all the main conferences within his research area.