

SFB/TR 8 Spatial Cognition / IQN Video Conference

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Spatial Cognition on Ambient Intelligence Wireless Sensor Networks

Wireless Sensor Networks (WSN) are communication networks established by sensor nodes, small, low-cost computing devices that are equipped with sensors. Ambient Intelligence (Aml) is a research effort towards physical environments that react to situations and people in an intelligent, pro-active manner. WSNs constitute the platform for Aml: sensor nodes can be deployed in large numbers due to their low cost, and have sufficient computational power, so as to dynamically create communicating and sensing environments. The talk gives an overview of research at the Distributed and Ubiquitous Systems group of the Technical University of Braunschweig. In the first part of the talk, I illustrate that research on spatio-temporal context-awareness and self-organisation provides new insights into central questions of representation and computational constraints in spatial cognition. In the second part, I summarise cognitive science results on the topic of context, which suggest that context-dependent reasoning and the representation of context play a central role with respect to economy, evolution, and architecture of cognitive systems. It is discussed how these results can be applied to questions of context-awareness in Aml WSN systems.

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