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Elektrotechnisches Kolloquium des Fachbereichs Physik/Elektrotechnik der Universität Bremen

Otto-Hahn-Allee, 28359 Bremen
Gebäude NW1, Hörsaal H3

Mittwoch, 25. Juni 2014 um 16:30 Uhr

Eingeladen von:

Prof. Dr. rer. nat.
Carmelita Görg

Wireless Sensor Networks and Spatial Ambient Intelligence

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Modern enabling technologies like the Internet of Things (IoT) and Cloud Computing have opened up more doors for emphasising the importance of the Wireless Sensor Network field. Research and development of concepts related to sensor networks are driving towards taking the experiments from the laboratory into the field with emphasis on various modes of communication including Cognitive Networking, Opportunistic Connectivity and Machine-to-Machine communication. Areas like data and reality mining, cyber-physical systems and others have started pushing towards the formulation of highly complex systems. These systems are centred round the Internet, cloud computing and sensor networks. They are driving towards what has been referred to as the planet nervous system. While elements of the concept have started taking shape, there are significant operational and optimization challenges.

The sensor network and smart environment research lab at AUT has been established mid-2006. The intention at the time is to identify the potential for this emerging field to engage with the local need while contributing to the related science and technology. Exploration of typical large scale process contexts and how to relate that to sensor networks was our main focus at the early stage of our activities. Areas like ambient intelligence and the related association with spatial mapping (both indoor and outdoor), object mobility and its association with opportunistic connectivity, and applications like smart building environment, wildlife, bushfire hazards, cool-stores and others were considered. Recently the focus has turned to key building blocks within future architectures of federated sensor networks. Emphasis is here on the performance of large scale heterogeneous systems.

Wir freuen uns auf Ihren Besuch!