Graz University of Technology

Einladung des Instituts für Technische Informatik

zum GASTVORTRAG am 03.06.2019 um 12:30 Uhr

im NXP Semiconductors Seminarraum, IE01090, Inffeldgasse 16/I, 8010 Graz

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Title : **Activity Sensing and Localization in Indoor Environments**

Lecturer : **Prof. Omprakash GNAWALI, University of Houston, USA**

When : **12:30, June 3, 2019**

Where : NXP Semiconductors Lecture room (Inffeldgasse 16, 1st floor)

Abstract:

Sensing people and mobile objects in indoor environments are key building blocks of many smart building applications. In this talk, I will share some recent results from my research in indoor localization and people sensing in buildings. We have developed new ways to use ultra sonic sensing to count and track people in buildings while ensuring privacy. We have made ultra-wide band radio based indoor localization more accurate, efficient, and scalable. I will also describe what we learned from evaluating these approaches on long and short-term deployments in buildings and on test-beds.

Speaker Bio:

Omprakash Gnawali is an Associate Professor at the Computer Science Department of the University of Houston. He does research on IoT, with a focus on wireless and sensing technologies. Other areas of interest include cybersecurity, data analytics, mobile systems, and technology for the emerging markets. He received his SB and MEng from MIT, PhD from USC, and was a postdoc at Stanford.