

EINLADUNG

- Zeit:** Friday, 28. September 2012, 11.00 AM
- Ort:** ComSys Seminar Room, Room 4105, Center for Computer Science, Ahornstrasse 55
- Referent:** Dr. Maurizio Bocca
Signal and Processing Across Networks Lab
University of Utah
- Thema:** Device-Free Localization from Wireless Network Signal Strength Measurements

Radio frequency (RF) sensor networks are wireless networks using as sensor the received signal strength (RSS) of radio signals to perform tasks such as device-free localization and tracking of individuals in indoor environments. With this technology, people to be located are not required to participate in the localization effort by carrying or wearing any radio device, tag or sensor. The RSS links is measured and processed in real-time to locate people from the variations caused by their movements in the monitored area.

The talk will introduce methods and approaches to infer people locations in indoor environments using RSS information. We will focus on the latest developments of this technology, e.g., the use of channel diversity to improve localization accuracy in through-wall scenarios, localization and tracking of multiple people, a more advanced spatial model for the motion-induced variations of the RSS of a link, and the use of these networks for long-term residential monitoring in assisted living and context awareness applications.

Es laden ein: Die Dozenten der Informatik