



08.01.2013

Einladung

Am Donnerstag, 07.02.2013, 10:30 Uhr, Hörsaal M6

spricht

Dr. Stephan Sigg

über

“Secure spontaneous device authentication from ambient audio”

On the verge to the Internet of Things computing is becoming increasingly distributed. The rising amount of mobile connections among devices also increases the number of security threats. While classical cryptographic protocols provide a sufficient degree of security, the authentication especially among unacquainted devices poses a mostly unsolved problem in infrastructure-less wireless communication. Due to the broadcast nature of wireless communication it is hard to authenticate distributed devices by traditional protocols. We propose an ad-hoc, interaction-free authentication mechanism for devices in the same context. In particular, we introduce a spontaneous secure context-based device authentication mechanism that utilises fuzzy cryptography, present exemplary results from a system that generates secure keys from fingerprints of ambient audio and discuss solutions to practical issues we faced.

Auf diesen Vortrag wird besonders hingewiesen

Martin Stein, Dekan