

Geomatik - Kolloqium

Do. 25.04 ab 16:15 Uhr GFZ Haus H, Raum VR1

Recent achievements of microcontroller technology made the everyday use of smartphones or sensor networks practical. Such devices require specific software solutions e.g. operating systems, network communications and applications that are tailored to the limited hardware and battery capacities. Research in this field became a relevant aspect of the department of Operating Systems and Distributed Systems at Institute of Computer Science Potsdam University and is in the focus of the following talks.



Prof. Dr. Bettina Schnor Energy Management of Android

The talk will give **insights into the energy management and the architecture of Android based smartphones**. Since Android is not limited to Smartphones but is applied for embedded devices in general, its energy management gains increasing relevance.

Bettina Schnor studied Mathematics and Computer Science at the TU Braunschweig. In the 1990s, she established the research field "Distributed Systems" at the Technical University Braunschweig. From 1996 to 2000 she was researcher and lecturer at the Institute of Telematics at the University of Luebeck. Since April 2000 she is head of the Department of Operating Systems and Distributed Systems at Potsdam University. Her research interests are distributed systems, cluster and grid computing, network security and assisted living applications.

Sebastian Fudickar Indoor - Localization

The talk presents an **indoor localization system for smartphones**, which achieves high accuracy with minimal deployment-costs and installation effort. Aside, a general **overview of typical indoor-localization techniques** is given. Furthermore **signal-strength based localization systems** are discussed in greater detail, since being best suited for use in smartphones.

Sebastian Fudickar is a Phd student in Computer Science at Department of Operating Systems and Distributed Systems at Potsdam University, following a M.Sc. in Computer Science (IFI, Potsdam) and a B.Sc. in Software System Engineering (HPI, Potsdam). His research increases the energy efficiency of smartphones and enables future added values (e.g. by bridging the gap between wireless sensor networks and smartphones). His research interest include embedded system, indoor localization, wireless sensor networks and assisted living applications (e.g. fall detection).

Next talk

09.05.2013 Margaria-Steffen, Lamprecht: Geo Workflow-management systems
16:15 Uhr GFZ Haus H, Raum VR1

Veranstalter

Prof. Dr. Bettina Schnor, Institute of Computer Science, Universität Potsdam
Prof. Dr. Joachim Waechter, German Research Centre for Geosciences