

# Informatik-Kolloquium

Rheinisch-Westfälische Technische Hochschule Aachen  
Fachgruppe Informatik



## EINLADUNG

Zeit: Dienstag, 22.11.2005, 9.00 Uhr

Ort: AH VI., Ahornstr.55

Referent: Dr. Frank Fitzek, Uni Aalborg

Titel: Cooperation in distributed wireless networks:  
The evolutionary step towards real 4G

### Abstract:

Following the evolution process of 1G, 2G, and 3G wireless networks, the 4G network will end up in significant problems in the field of: high data rate support, power consumption, highly complex terminals, large installation costs and lack of services if it is designed following the linear extension approach. In this talk the application of cooperation concepts for real 4G distributed wireless networking is discussed. Cooperation is known as an effective strategy in nature to achieve individual or common goals by forming cooperative groups without central authority. As the cross over between nature and engineering has always been fruitful, the use of cooperative strategies in the field of wireless networking is advocated. Cooperation principles are introduced from the lowest to the highest ISO/OSI layering model. Some concepts are highlighted and their potential is discussed. Most of the problems mentioned before can be solved by concepts of cooperation.

Es laden ein: Die Dozenten der Informatik