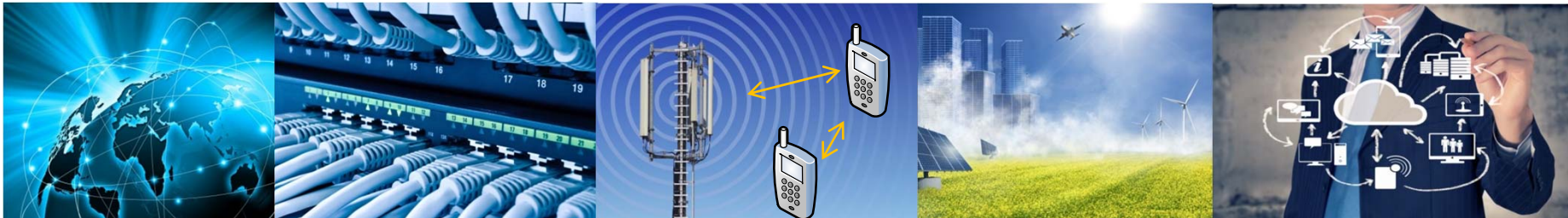
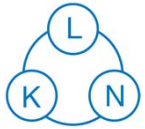


47th ITG 5.2.4 Workshop New Radio Resource Management Concepts

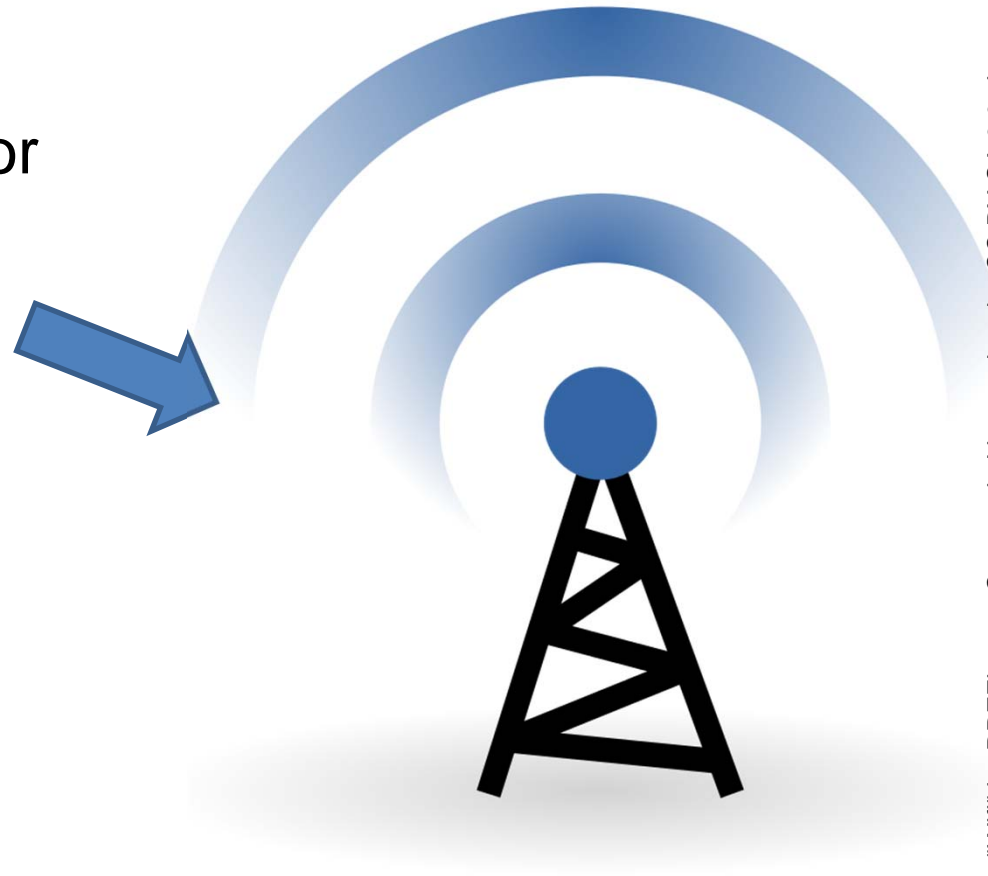


Wolfgang Kellerer
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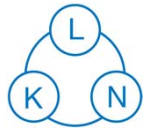


New Radio Resource Management Concepts

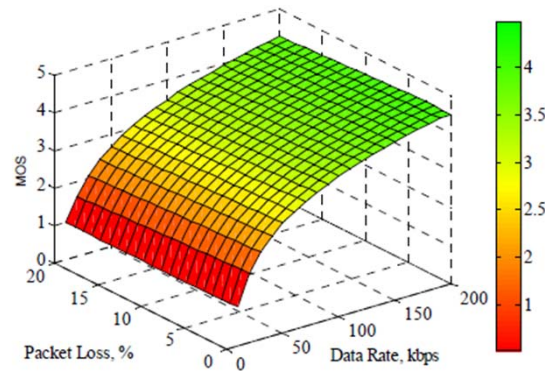
- Mobile traffic growth
- Variable user behavior
- Massive M2M



"Wifi" by RRZEIcons - Own work. Licensed under CC BY-SA 3.0 via Wikimedia Commons - <https://commons.wikimedia.org/wiki/File:Wifi.svg#/media/File:Wifi.svg>



New Radio Resource Management Concepts



Domain context:
ITS, sensors, smart grid, in-vehicle

User context:
Device, movement,...

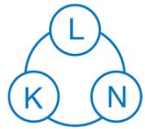
Channel context:
Time variation,...

Application context:
Utility function

Context-aware
Radio Resource Management

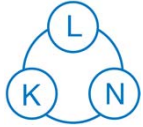
Prediction

LTE, WLAN,...



New Radio Resource Management Concepts

- Novel Radio Resource Management schemes
- Anticipatory scheduling mechanisms and applications
- Context-aware resource allocation
- Prediction techniques for supporting RRM
- RRM for shared resources
- Cloud RAN
- Mobile Edge Computing
- Methods for predicting traffic and user behavior



VDE ITG 5.2.4

IP and Mobility

Fachgruppe - Expert Group

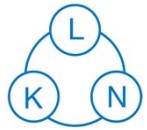
Scope

- architectures, protocols and mechanisms of current and future IP-based mobile communication networks.

Mode of operation

- Regular workshops (2-3 per year): presentations and discussions on selected topics
- Results (slides etc.) are available on the homepage

NEW: <http://itg.lkn.ei.tum.de>



IP and Mobility

Fachgruppe - Expert Group

Resource Management
QoE, SON, Congestion
Control, Interference
Coordination, ...

Technologies
Cellular (LTE, LTE-A, HSPA),
Mesh & Sensor,
Car2X, ...

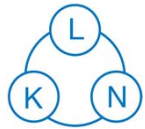
Wireless and
Mobile
Networking

Services, Applications,
Business
GreenIT, Service
Platforms, D2D, M2M, ...

Models and Evaluation
Traffic characterization,
Simulation techniques,
Mobility models, ...

NEW:

<http://itg.lkn.ei.tum.de>



IP and Mobility

Membership

- Workshops are open to the public
(subscribe to mailing list for announcements – see web)
- Experts interested in shaping the work actively are
always welcome
just ask us (Fachgruppensprecher)!



Prof. Dr. Wolfgang Kellerer
Technische Universität München



Prof. Dr. Dirk Staehle
Hochschule Konstanz

NEW: <http://itg.lkn.ei.tum.de>

Prof. Dr.-Ing. Wolfgang Kellerer