

47th Meeting of the VDE/ITG Section 5.2.4

IP and Mobility

Stuttgart, June 25th/26th, 2015 hosted by Alcatel-Lucent Bell Labs

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

Call for Contributions

Within its series of round tables, the VDE/ITG Section 5.2.4 "IP and Mobility" organizes a workshop on the topic

New Radio Resource Management Concepts

The workshop will take place at Alcatel-Lucent Bell Labs, Lorenzstr. 10, 70435 Stuttgart, on June 25th, 2015. We solicit:

- Technical overview presentations
- Project presentations
- Presentations of results of ongoing research
- Visionary (possibly provocative) presentations

The exponential growth of the mobile traffic based on highly variable user behavior and massive machine-to-machine communication will have a strong impact on the bandwidth consumption of the future wireless infrastructure. One way to approach this problem is to have a smarter **Radio Resource Management (RRM)** which does not treat all users the same way, but is aware of the specific needs and requirements of each user. Recent research has shown that considerable gains can be achieved in terms of network utilization and user experience when using context information and a prediction of the upcoming status of the network. Context information, like e.g. expected channel degradations or user behavior, can be used as add-on for an efficient usage of the resources, especially when multiple technologies, such as e.g. LTE and WiFi, are available. Furthermore, resource allocation can strongly benefit from the smart anticipation of users' demand and expected channel gain.

The objective of this workshop is to bring together stakeholders from telecom operators, vendors, and academia to discuss challenges and opportunities of new RRM concepts. Topics of particular interest include (without limiting the scope of the workshop):

- 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

Please inform the workshop organizers about your planned contribution by **May 29th, 2015**. The number of contributions is limited and assigned on a first come first served basis. The workshop program will be published in early June. Participants should register via email by **June 12th, 2015**.

The **workshop** will take place in the afternoon of **June 25th, 2015**, followed by a joint **dinner** for all participants on a self-pay basis. In the morning of **June 26th, 2015**, the ITG 5.2.4 internal section meeting will take place, which is open to guests. Please contact us if you are interested in our work.

For further questions, please do not hesitate to contact the workshop organizers:

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