

VENUE

Schloss Karlsruhe

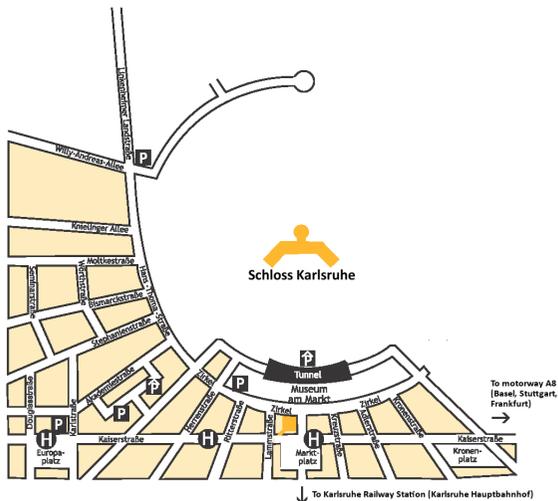
The location of the workshop is

Schloss Karlsruhe
Schlossplatz
76131 Karlsruhe

The conference room's name is

Gartensaal

Please access the building by its main entrance.



AGENDA

Tuesday, June 29, 2010

- 10:00 - 10:45** Invited Talk 1:
„Value of Virtualization for a Mobile Operator?“
Zoran Despotovic (NTT Docomo Eurolabs)
- 10:45 - 11:00** Coffee (15 min)
- 11:00 - 11:45** SpoVNet Project Presentation & Demo
- 11:45 - 12:45** Lunch Break, Poster and Demo Session
- 12:45 - 13:30** Invited Talk 2:
„Wireless Sensor Nodes as Building Blocks for Real Life Applications“
Peter Langendörfer (IHP GmbH)
- 13:30 - 14:15** Invited Talk 3:
„Towards an Internet of Things: Requirements, Challenges & Initial Solutions“
Martin Bauer (NEC Europe Ltd.)
- 14:15 - 14:45** Coffee Break, Poster and Demo Session
- 14:45 - 15:30** Invited Talk 4:
TBA
N.N.
- 15:30 - 16:00** Discussion and Closing Remarks



Universität Stuttgart



Karlsruher Institut für Technologie

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Program

Self-organizing Service Overlays and Network Virtualization Architectures

2nd Workshop on Architectures, Services, and Applications for the Next Generation Internet (WASA-NGI 2010)

June 29, 2010
Karlsruhe, Germany



LANDESSSTIFTUNG
Baden-Württemberg

Project in the BW-FIT Program
Landesstiftung Baden-Württemberg

2ND WORKSHOP ON ARCHITECTURES, SERVICES, AND APPLICATIONS FOR THE NEXT GENERATION INTERNET

Background

A rapidly changing application landscape poses new challenges to the Internet infrastructure. New Web2.0 applications like social networks allow users to interact and cooperate pervasively in business and leisure. The integration of sensors and RFIDs in objects of everyday life has enabled an intelligent interconnection of real-world objects—the **Internet of Things**—at the scale of billions of devices. Although these applications foster the trend towards a “Next Generation Internet”, the transition from nowadays solutions raises many important questions, which are of concern to both industry and academia.

On the one hand, new applications call for in-network support of specific communication services, e.g., publish/subscribe or group communication. Ideally, these services should meet user's non-functional requirements, e.g. in terms of security and quality-of service.

On the other hand, new and evolving Internet applications generate massive amounts of data. For instance, Web2.0 applications require transport of rich multimedia content, while applications from the Internet of Things require processing of real world sensing data collected on a global scale.

Mobility of users and devices increases due to new access networks such as LTE and WiMax and requires migration of both services and data. Upcoming exhaustion of IPv4 addresses and introduction of IPv6 increase the protocol heterogeneity for such scenarios, thus complicating connectivity for such applications.

Recent advances in network virtualization and self-organizing service overlays provide appealing solutions to trim the Internet for these requirements. However, despite of the rapid progress in both areas they only face limited deployment in real-world applications. To bridge the gap between conceptual work and real-world deployment, challenges and requirements must be revisited from the application's point of view.

Scope

This workshop offers an opportunity to discuss challenges and requirements with respect to building network architectures enabling flexible service provisioning and data management from the viewpoint of practitioners and users. A special focus lies on the requirements that arise from different application scenarios in such a context. Questions in this context might be: What issues in the Internet have to be solved for enabling such future applications? What kind of support from the network is required? Which supporting services in the network would be helpful?

Organization

This workshop series is organized by the [SpoVNet](#) (Spontaneous Virtual Networks) project, funded by [Landesstiftung Baden-Württemberg](#). It involves researchers from three universities in Baden Württemberg ([Karlsruhe](#), [Mannheim](#), and [Stuttgart](#)) contributing to develop a platform enabling a seamless transition to the Next Generation Internet. The workshop program is composed of presentations from practitioners as well as researchers with expertise and experience with regard to self-organization, virtualization, and the Internet of things.

Steering Committee

Martina Zitterbart, Karlsruher Institut für Technologie

Wolfgang Effelsberg, Universität Mannheim

Kurt Roethermel, Universität Stuttgart

Organizing Committee

Oliver Waldhorst, Karlsruher Institut für Technologie

Roland Bless, Karlsruher Institut für Technologie

Christoph Mayer, Karlsruher Institut für Technologie

Invited Speakers

Zoran Despotovic (NTT Docomo Eurolabs)

Peter Langendörfer (IHP GmbH)

Martin Bauer (NEC Europe Ltd.)

N.N.



Schloss Karlsruhe. Location for the Workshops on Architectures, Services, and Applications for the Next Generation Internet