

News

OverDrive wins Best-Paper Award

The OverDrive publication of Bernhard Heep, Martin Florian, and Ingmar Baumgart won this year's best paper award of the Wireless On-Demand Network Systems and Services Conference (WONS). We congratulate all authors for this great success.

http://telematics.tm.kit.edu/projects_2420.php

03/18/2013 Joachim Wilke <wilke@kit.edu>

Institute for Telematics in Full Swing

At 02.07. the Institute of Telematics had its annual works outing and took a bike trip for a golf trial lesson. Even if not every shot on the driving range and every swing on the green hits the target, fun for golf and the unusual movements prevailed. Afterwards, during a common lunch at the Zollhaus tips and tricks for the best backswing have been exchanged.

07/02/2013 Jens Horneber <horneber@kit.edu>

Conferences & Workshops

PerSens 2013

Vom 18. bis zum 23. März fand der PerSens Workshop im Rahmen der IEEE Percom 2013 statt, die Wissenschaftler aus der ganzen Welt nach San Diego lockte. Christian Haas stellte das Paper "Evaluating Energy-Efficiency of Hardware-based Security Mechanisms" vor, welches in Zusammenarbeit mit Joachim Wilke und Anton Hergenröder am Institut für Telematik entstanden ist. Ziel der Arbeit war es, den Energiebedarf hardwarebasierter Sicherheitsbausteine systematisch und realitätsnah auf echter Sensoriknoten Hardware zu evaluieren und mit gängigen Softwareimplementierungen zu vergleichen.

03/03/2013 Christian Haas christian.haas@kit.edu

NetSys 2013



Figure 1 NetSys 2013

During the conference NetSys 2013, Dr. Ingmar Baumgart and Fabian Hartmann presented their demonstrator "User-centric networking powered by SODESSON" (Fig. 1) which enables a decentralized social network by utilising only the users' devices and allows transparent data transfer by face-to-face meetings if internet connectivity is not available. If a user possesses multiple devices, they get synchronized automatically.

03/11/2013 Fabian Hartmann <fabian.hartmann@kit.edu>

WONS 2013 in Banff

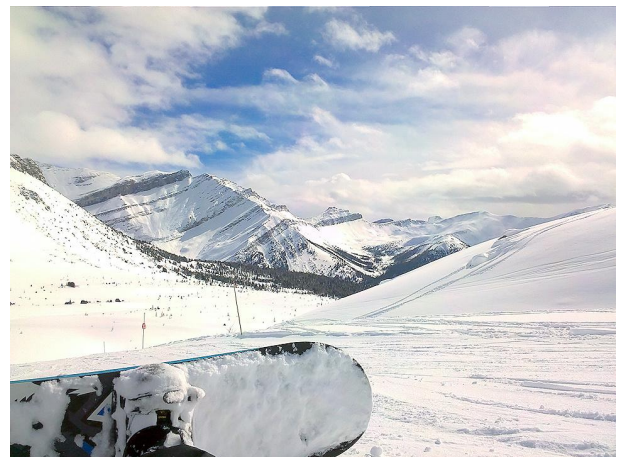


Figure 2 This year's WONS conference was located directly in the Rocky Mountains.

From 18.-20.03. the 10th Annual Conference

on Wireless On-Demand Network Systems and Services (WONS) took place in Banff, Canada (Fig. 2). The research group of Martina Zitterbart was present with two different publications. Martin Florian presented the paper “OverDrive: An Overlay-based Geocast Service for Smart Traffic Applications” which is joint work with Bernhard Heep and Ingmar Baumgart. Joachim Wilke presented the paper “Energy-Efficiency of Concast Communication in Wireless Sensor Networks” which is joint work with Christian Haas.

<http://2013.wons-conference.org/>

03/18/2013 Joachim Wilke <wilke@kit.edu>

INFOCOM - Turin



Figure 3 INFOCOM - Turin

From 14th to 19th of April, INFOCOM was held this year at Lingotto Conference Centre in Turin, Italy (Fig. 3). Sören Finster presented the paper “Elderberry: A peer-to-peer, privacy-aware smart metering protocol”, a joint work with Ingmar Baumgart, at the Workshop “Communications and Control for Smart Energy Systems”. The paper addresses privacy issues in Smart Metering and provides privacy through cooperation of Smart Meters using a peer-to-peer overlay.

04/14/2013 Sören Finster <finster@kit.edu>

eEnergy - Berkeley

This years ACM eEnergy took place in Berkeley, CA from May 22th to 24th (Fig. 4). Sören Finster presented the paper “Smart Metering using Application-Tailored Networks”, a joint work with Hans Wippel, as a poster. The paper explores ap-



Figure 4 eEnergy - Berkeley

proaches for the usage of Application-Tailored Networks within the Smart Grid.

05/22/2013 Sören Finster <finster@kit.edu>

Guests & Visits

Visitors from Canada

For four weeks in May and June Prof. Jörg Liebherr from University of Toronto, ON, Canada, was visiting the institute. He was accompanied by his PhD Student Boris Drazic. Both conducted research in overlay-based routing mechanisms during this time.

05/21/2013 Dr. Oliver Waldhorst <waldhorst@kit.edu>

References

- I. BAUMGART and F. HARTMANN: *User-centric networking powered by SODESSON*. PIK - Praxis der Informationsverarbeitung und Kommunikation, 36(2):147–148, May 2013.
- S. FINSTER and I. BAUMGART: *Elderberry: A peer-to-peer, privacy-aware smart metering protocol*. In *Proceedings of the 2nd IEEE INFOCOM Workshop on Communications and Control for Smart Energy Systems (CCSES 2013)*, April 2013.
- C. HÜBSCH: *Flexible Application-Layer Multicast in Heterogeneous Networks*. PhD thesis, June 2013.
- H. WIPPEL and S. FINSTER: *Smart Metering using Application-Tailored Networks*. Poster, May 2013.

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