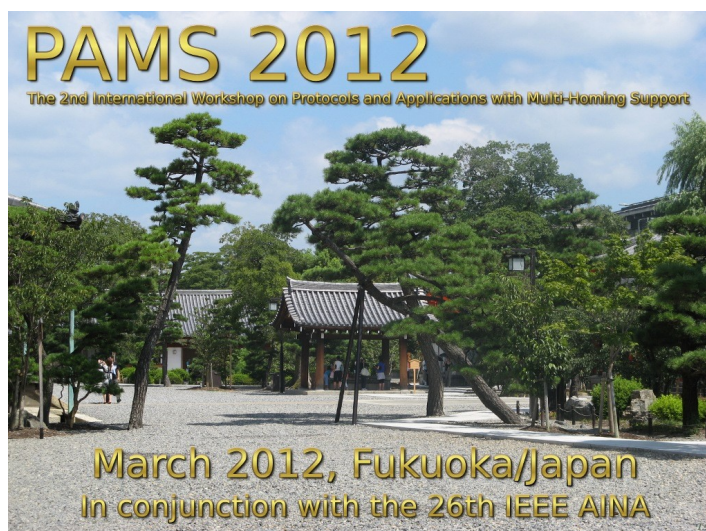# 2nd International Workshop on Protocols and Applications with Multi-Homing Support (PAMS 2012)

to be held in conjunction with the

[26th IEEE International Conference on Advanced Information Networking and Applications (AINA 2012)](#)

Fukuoka, Japan, March 26-29, 2012

http://tdrwww.iem.uni-due.de/pams2012.html

Scope

Network transport protocols such as TCP/IP have been designed under the assumption that an endpoint is connected to a single network and is addressed by only one Network Layer address. But today, with the popularity of resilience-critical applications, such as e-commerce, e-health and emergency services, there is more and more interest in having multi-homed endpoints, where systems are connected to multiple networks and are therewith able to support the necessary resilience. The management of multi-homing creates challenges for applications and underlying protocols as well. For the best application performance, multiple approaches, situated on different protocol layers, should work cooperatively.

Multi-homed Transport Layer protocols such as SCTP are available for quite some time. However, in the last period, and with the recent progress by the IETF related with Multi-Path TCP (MPTCP), which adds multi-homing functionalities to the standard TCP protocol, multi-homed Transport Layer protocols have become a hot research topic. In addition to it, multiple large research projects are working on approaches on the Session Layer (e.g. HIP) and Network Layer (e.g. LISP, ILNP) and are dealing with similar issues. Here, it has to be mentioned that Cross-Layer Optimization in this field may lead to further improvements.

The intent of our workshop is to bring people from research and industry together in order to provide a discussion forum for state-of-the-art topics related with multi-homing on Network, Transport, Session and Application Layers. The workshop will include full-paper sessions as well as a poster session (with short presentations) to introduce preliminary ideas as well as work in progress.

Workshop proceedings will be published by IEEE CS Conference Publishing Service and will be included in the Digital Library.

Topics of Interest

Topics of interest include (but are not limited to):
- Network Resilience by Multi-Homing
- Network Architectures for Multi-Homed Systems
- Performance Evaluation of Multi-Homed Systems
- Deployment of Multi-Homed Protocols in Existing Networks with Middleboxes
- Design and Implementation of Multi-Homed Systems
- Load Sharing and Load Balancing for Multi-Homed Systems
- Mobility for Multi-Homed Systems
- Protocols with Multi-Homing Support
- Congestion and Flow Control of Multi-Homed Systems
- Quality of Service for Multi-Homed Systems
- Security of Multi-Homed Systems
- Application Deployment and Support for Legacy Applications
- Cross-Layer Optimization for Multi-Homed Systems
- Multi-Homing in the Context of Future Internets

Organising Committee

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Michael Welzl, University of Oslo, Norway
Xing Zhou, Hainan University, China

Important Dates

- Paper Submission Deadline: ~~October 01, 2011~~ October 16, 2011
- Author Notification: December 01, 2011
- Camera-Ready Paper Submission: January 06, 2012