



CALL FOR PAPERS

IEEE ICC 2011 Workshop on Future Network (FutureNet IV)

June 9, 2011 Kyoto, Japan

Organizers (General and TPC Co-chairs)

Rolf Winter (NEC Labs Euro)
Joe Touch (USC/ISI)
Masaki Aida (Tokyo Metropolitan University)

TPC (Tentative, to be confirmed)

Xiaoming Fu (University of Goettingen)
Hisaya Hadama (NTT)
Hiroaki Harai (National Institute of Information and Communications Technology)
Toru Hasegawa (KDDI Labs.)
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Martin Karsten (University of Waterloo)
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Yoshiaki Kiriha (National Institute of Information and Communications Technology)
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Yan Ma (Beijing University of Posts and Telecommunications)
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Klaus Wehrle (RWTH Aachen University)
Miki Yamamoto (Kansai University)

Steering Committee

Dipankar Raychaudhuri (Rutgers University)
Ryutaro Kawamura (NICT/NTT)
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Important Dates

Paper submission deadline: Oct 15, 2010
Accept/reject notice: Jan 15, 2011
Camera ready submission: Feb 15, 2011

Objectives

Today's Internet architecture is stifling innovation; restricting it mostly to the application layer. From a number of angles it appears that we have reached a point in the impressive development cycle of the Internet that now requires some major change.

In the past few years, there has been a renewed worldwide interest in future Internet architectures, leading to early-stage research programs such as NSF FIND/FIA in the US, FP7 in Europe and NWGN in Japan. The objective of these R&D programs is to evolve or re-architect the Internet protocol to improve security and usability, incorporate new optical and wireless technologies and better serve the next generation of content, mobile and pervasive network services. The International Workshop on the Network of the Future (FutureNet) is a platform for both evolutionary and clean-slate approaches for redesign of the Internet. The event will uniquely bring together approaches driven by mobile and wireless requirements, network virtualization, network self-management, content and sensor networking and discuss these from both a technical as well as socio-economic perspective.

Topics of Interest

We solicit contributions that report early results addressing research challenges in topics related to the network of the future. Particularly, we want to identify and address issues with a very high potential for significant impacts on the way the network is functioning and being used. The workshop welcomes submissions from both researchers and practitioners but fresh ideas in the form of early results, position papers and systems papers are particularly welcome.

- Re-design and re-evaluation of today's architectural principles
- End-to-end virtualization of the network
- Programmable network equipment such as routers
- Alternatives to established technologies such as routing
- New optical layer networking technologies
- Self-management of networks
- New media-aware transport services
- New approaches to network security and user privacy
- Mechanisms to interconnect extremely heterogeneous edge networks
- Technology based on new communication paradigms
- Enabling technologies for the Internets of Things
- Machine-to-machine networking
- Publish/subscribe network architectures
- Policy and social issues in future architectures

Paper Submission Guidelines

All submissions to ICC 2011 Workshop on FutureNet IV should be written in English with a maximum paper length of five (5) printed pages (10-point font) including figures. Authors may submit an additional page (i.e., 6 pages total) if they agree to provide a one-page fee if the paper is accepted for publication. You may use the standard IEEE conference templates for Microsoft Word or LaTeX formats found at <http://www.ieee.org/web/publications/pubservices/confpub/AuthorTools/conferenceTemplates.html>. PDF versions in A4 format have to be submitted via EDAS. Please follow the updates at the ICC 2011 Website: <http://www.ieee-icc.org/2011/index.php>

General Information

For general information, visit the FutureNet IV web site at: <http://www.futureinter.net/>