



Call for Papers

## 8<sup>th</sup> Euro-NF Conference on Next Generation Internet NGI 2012

June 25–27, 2012

Blekinge Institute of Technology, Karlskrona, Sweden



### Overview

Following the past successful conferences, NGI 2012 focuses on the design, engineering, and operation of Next Generation Internet networks. It is organized by the Network of Excellence (NoE) Euro-NF, funded by the European Commission during the 7th Framework Program. Euro-NF serves as its main platform for interaction, dissemination, and collaboration. To stimulate discussions, NGI 2012 invites scientists and practitioners from industry and academia, and especially welcomes contributions from outside Euro-NF.

Conference Website: <http://www.bth.se/ngi2012>

Original papers on recent advances in next generation networking are invited. In addition to full papers, we also encourage to present demonstrators. Topics of interest are – but are not limited to – the following areas:

#### **Applications and Services**

- Grid computing
- Cloud computing
- Location-based and context-aware services
- Network co-operation
- Overlay networks and peer-to-peer
- Internet of Things
- Cyber-Physical Systems

#### **Optical Networks**

- Multi-layer networks
- Routing & wavelength assignment
- Traffic grooming and traffic engineering
- Transport Ethernet, PON, WDM

#### **Network Architecture**

- Access, metropolitan, and core networks
- Environment-aware networking
- Flexible and evolvable network architectures
- Inter-domain and intra-domain routing
- Network management and control
- Security architectures and mechanisms
- Network Virtualization
- Network Federation
- Content-Centric Networking
- Networking and nano-sciences
- Energy-efficient networks
- Bio-inspired networking
- Mobility and nomadicity in evolved architectures
- Testbeds and experimental evaluations

## **Wireless Networks**

Ad hoc and sensor networks  
Cellular networks  
Cross-layer design  
Integration of fixed and mobile networks

## **Socio-Economic Aspects**

Cost models  
Regulation, IPR, network neutrality, governance  
SLAs, pricing and QoE  
Trust, privacy, security and risk awareness

## **Traffic Engineering**

Admission and congestion control  
Performance evaluation of NG networks  
Quality of Service (QoS), Experience (QoE) and Resiliency (QoR)  
Service differentiation and multi-service support  
Traffic measurements, modeling and statistical characterization  
Optimization algorithms and heuristics for network dimensioning

## **Submission Guidelines**

Submissions will be done through the [EDAS](#) system. Papers must present original, unpublished research or experiences.

Submitted full papers must not be longer than 8 pages. A paper must contain a short abstract (up to 250 words), the complete list of authors including affiliations, and keywords. The layout of the papers must comply with the [IEEE Transactions templates](#). Please use Word template or LaTeX macros unchanged. If you are not using either of these formats, please contact the conference chair.

For demonstrators, please submit an extended abstract of max. 2 pages.

## **Conference Co-Chairs**

Markus Fiedler, Blekinge Institute of Technology, Sweden  
Daniel Kofman, Télécom ParisTech, France

## **TPC Co-Chairs**

Patrik Arlos, Blekinge Institute of Technology, Sweden  
Piotr Cholda, AGH University of Science and Technology, Poland  
Kurt Tutschku, University of Vienna, Austria

## **Local Organisation**

Charlott Lorentzen, Blekinge Institute of Technology, Sweden

## **Important Dates**

Paper submission deadline:	March 04, 2012
Acceptance notification:	April 20, 2012
Camera-ready version:	May 11, 2012
Registration deadline:	May 25, 2012
Conference dates:	June 25–27, 2012