

CALL FOR PAPERS

3rd IFIP/IEEE International Workshop on Bandwidth on Demand and Federation Economics (BoD 2010)



April 23, 2010, Osaka, Japan

<http://www.csg.uzh.ch/events/bod10/>



In conjunction with IEEE/IFIP NOMS 2010

"Scalable and Economic Bandwidth Allocation in the Future Internet"

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The rapid technological progress in the area of network virtualization, mainly driven by new optical fiber technology and virtual router infrastructures, is generating a new trend for the provisioning of bandwidth on demand. The support of fully decentralized bandwidth allocation and network management schemes shows further advantages in terms of robustness and scalability for large-scale systems.

However, suitable business models for such novel bandwidth services have not yet evolved, despite of simple time-based charging methods for different bandwidth levels. This is especially so in the case of federations among multiple virtual network providers where more than one administrative domain are involved in the provision of a single service. Such federated infrastructures include neighborhood wireless mesh networks and experimental facilities like GENI or PlanetLab, which require different economic models than the ones proposed for ISP interconnection and the Grid to capture the whole complexity of this novel type of multi-tier resource sharing economy.

The third BoD workshop follows the first and second successful workshops which were held in conjunction with IEEE Globecom 2006 and IEEE/IFIP NOMS 2008, as well as a Dagstuhl seminar held in 2009. The workshop seeks original papers, both from industry as well as academia, dealing with the technical, economic, and regulatory dimensions of bandwidth allocation in fixed and wireless networks. The workshop will include presentations and discussions of accepted technical papers, as well as invited talks.

Topics of Interest:

- Scalable bandwidth allocation in optical, wireless, and Internet domains
- Network management schemes for BoD
- Fully decentralized and P2P-based bandwidth allocation
- Economic and cost-effective bandwidth allocation
- Energy-efficient bandwidth allocation
- Incentive mechanisms and bandwidth allocation policies
- Economic management of network resources
- Bandwidth provisioning on demand
- Provisioning of networks on demand
- Market-based allocation mechanisms such as auctions
- Secure and robust network provisioning
- Economic studies in carrier and service provider networks
- Market and business models
- Cost and revenue models
- Market liquidity aspects
- Game theoretical bandwidth allocation models
- Network allocation in test-bed infrastructures like GENI or PlanetLab
- The economics of federation and policy design
- Network provisioning in non-profit systems like neighborhood networks
- Peer-to-peer Internet access sharing
- Industrial developments of new network technologies like network virtualization
- Bandwidth allocation in virtual and overlay networks
- Bandwidth allocation in wireless mesh networks
- Technical improvements in transport and data networks
- Legislative and regulatory issues
- Legal issues of bandwidth allocation

Paper Submissions:

Papers must be written in English and will be subject to a full review process. Papers are solicited as full papers of no more than 8 pages or short papers (position statements or work-in-progress papers) of no more than 4 pages in IEEE two-column format.

Submissions must be in PDF and will be handled using the JEMS system. Please refer to <http://www.csg.uzh.ch/events/bod10/> or contact bod10@lists.ifi.uzh.ch for additional information. Those papers accepted will be published in IEEE Xplore.

Important Dates:

Paper registration and submission deadline:	January 4, 2010	Final versions of papers due:	February 19, 2010
Notification of acceptance:	February 8, 2010	Workshop date:	April 23, 2010

Organizing Committee:

- Panayotis Antoniadis, LIP6, France
- David Hausheer, UC Berkeley, USA and University of Zurich, Switzerland
- Kohei Shiimoto, NTT Labs, Japan
- Burkhard Stiller, University of Zurich, Switzerland
- Jean Walrand, UC Berkeley, USA