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FIRST CALL FOR PAPERS

Infrastructure virtualization has emerged as an important architecture and experimentation concept for the Internet infrastructure. The global computing and communication infrastructure will encompass (as it does today) a diverse and huge collection of networking, computing and storage resources. Together they need to form a coherent infrastructure and meet our society's requirements for the 21st century. Infrastructure virtualization involves creation of a virtual slice of network, computing and storage resources in support of a service, an application, or an experiment from a physical substrate of diverse resources. Thus infrastructure virtualization provides a platform to allow innovation on a global scale and enables new business models.

There are many technical problems to solve to enable Infrastructure virtualization: how to discover and advertise the resources; how to create and manage an infrastructure slice across diverse resources; how does virtualization extend into the data center or to the wireless edge; how to implement virtualization across heterogeneous resources and protocols; how to map an application or service to run on an infrastructure slice; what applications and capabilities are enabled by infrastructure virtualization; how does infrastructure virtualization impact the business models of network operators; and others.

Many research groups worldwide are pursuing different aspects of infrastructure virtualization; various international funding agencies are actively supporting research in this area; and many providers and vendors are very interested in exploring how this concept and associated technologies would help solve their business problems and create new growth opportunities. The goal of the workshop is to feature recent research and developments related to infrastructure virtualization; to allow exchange of ideas; and to help build a research and user community to explore and help realize the potential of infrastructure virtualization.

TOPICS OF INTEREST

We encourage the submission of **position papers** and of works **which encompass the whole infrastructure virtualization** (network and storage and computing resources). We solicit previously unpublished work on the following, non exhaustive, list of topics:

- ❖ Infrastructure virtualization architecture;
- ❖ Resource allocation to virtual slices;
- ❖ Impact of infrastructure virtualization on the data center;
- ❖ Management tools for infrastructure virtualization;
- ❖ How can infrastructure virtualization enable or support cloud computing;
- ❖ Isolation and slice independence in a virtualized infrastructure;
- ❖ Integration of the wireless edge into a virtualized network;
- ❖ Inter-operability and federation of virtualized infrastructures;
- ❖ Cross-layer protocols for virtualized networks;
- ❖ Applications and services enabled by virtualized infrastructure; and
- ❖ Security issues with virtualized infrastructure.

IMPORTANT DEADLINES

Paper submission deadline:	**March 25th, 2010**
Acceptance notification:	**April 12th, 2010**
Camera ready final submission:	**May 1st, 2010**
Workshop:	**Monday August 30, or Friday September 3, 2010**

INSTRUCTIONS FOR AUTHORS

Authors should submit **pdf** papers exclusively, at http://www.easychair.org/conferences/?conf=visa10. Please follow the format of ACM SIGCOMM 2010 submissions, except anonymity is not required and the page limit is **eight** pages. This workshop strongly encourages the submission of exploratory results that point to new directions and challenges in the design and management of a virtualized infrastructure.

http://conferences.sigcomm.org/sigcomm/2010/workshops/visa/

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