

Welcome Message

Welcome to the first GENI Research and Educational Experiment Workshop 2012!

The Global Environment for Network Innovation (GENI) infrastructure has been becoming a more and more mature virtual laboratory for exploring future Internet at-scale. It supports at-scale experimentation on shared and heterogeneous GENI resources among multiple users, provides users programmability throughout the network, and offers collaborative and exploratory environments for innovative research and education. We have witnessed a significant growth of the GENI community for the past few years. More and more researchers, educators, and students have started or are starting to conduct research and educational experiments on the GENI infrastructure. NSF has sponsored the first round of GENI experimenters for testing their innovated research ideas and developing related educational experiments on various GENI resources since September 2010.

In this workshop, we have received a large number of submissions, significantly more than we expected. 18 papers have been accepted. I deeply grateful to the workshop committee including Jeannie Albrecht, Mark Berman, Yong Guan, Yin Pan, Niky Riga, and Bing Wang for their timely reviews within a short time frame.

The success of the workshop is possible only because of the hard work and contributions made by many people, including the organizing committee, the workshop committee, all paper authors, all session chairs, Lux Consulting Group, Inc., and our sponsor GPO/NSF. We gratefully acknowledge all of them. Our special thanks go to Henry Yeh, GPO's project manager, and Mark Berman, GPO's experimentation director. Henry has been a constant source of advice and support for the organization and logistics of the workshop. Mark helped in so many aspects to make sure that the workshop goes well, in addition to being a member of the organizing committee and chair of the panel. Without the support of Henry and Mark, this workshop would not have been possible. We also thank Jeff Forbes, Suzi Iacono, and Bryan Lyles, NSF program directors and senior science advisor, who provide NSF advices for new GENI experimenters. Also, it is an honor to have Chip Elliott to coordinate the NSF advices session. We thank Jeff Chase, our keynote speaker, and Jason Liu, our tutorial speaker, for their contribution to the workshop. We also greatly appreciate the enormous effort from the panelists: Mark Berman, Jason Liu, Robert Ricci, NikyRiga, and Kung-Ching Wang. In addition, we are especially in debt to Tristan Alexander and Deborah Jones who have provided great help on the workshop hospitality and logistics. We also thank all session chairs including Jay Aikat, Mark Berman, Richard Brooks, Chip Elliott, Sonia Famhy, Yang Xiao, and Michael Zink, and several students including Anand Allkia, Binh-Yen Nguyen, and Praveen Iyengar for their help. It has been a great pleasure to work

with the other members of the organizing committee consisting of Yong Guan, Yin Pan, Bing Wang, and Mark Berman. I am very thankful to all of you.

We truly hope that all of you will find this workshop to be an interesting, enriching, and informative experience. In closing, we look forward to working with all of you to continue the GENI Research and Educational Experiment Workshops.

Kaiqi Xiong

On behalf of the Workshop Organizing Committee:

Kaiqi Xiong (Rochester Institute of Technology)

Yong Guan (Iowa State University)

Yin Pan (Rochester Institute of Technology)

Bing Wang (University of Connecticut)

Mark Berman (BBN/GPO)