AIMS 2014 Session: Available Mobile and Wireless Testbed Research Infrastructure

Jim Martin
Associate Professor
School of Computing
Clemson University
jim.martin@cs.clemson.edu

http://sciwinet.org
http://geni.net
AIMS 2014 Session: Available Mobile and Wireless Testbed Research Infrastructures

• Session: Available Mobile and Wireless Testbed Research Infrastructures
• Discussion points:
  • Multidisciplinary economic/policy challenges of measurement platforms
  • Inventory.....what exists?
  • Purpose ..... What are the requirements ?
    • Support research!!
    • Support measurement !!
  • Conclusions ?
    • Lots of efforts....need coordination for the community ??
networking, cybersecurity, Economic models, human behaviors

Rutger's Orbit
GENI/Wimax, …

Phonelab, Sensibility testbed
MITATE, …

Research
Wireless Systems Infrastructure

Commercial
Wireless Systems Infrastructure
networking, cybersecurity, Economic models, human behaviors

CEO Research

DOT/ITS Research

Public Safety/Homeland Security

SciWiNet

Rutger's Orbit

GENI/Wimax, ...

Phonelab, Sensibility testbed MITATE, ...
Geni Wireless directions are under discussion ....

- NSF has recommended the community conduct a Workshop
- Please see: http://groups.geni.net/geni/wiki/GEC19Agenda/GENIWirelessFuture
The goal of SciWiNet is to build wireless infrastructure that supports current and emerging wireless requirements of the academic research community. Through benefits of scale, SciWiNet will enhance the ability of the research community to integrate 3G/4G wireless in their respective research. The project is described as follows:

- SciWiNet resells cellular data services from Sprint. More precisely, we have partnered with Arterra who brokers Mobile Virtual Network Operator (MVNO) arrangements with operators. Our current operator is Sprint, we expect to also operate with T-Mobile in 3Q 2014.
- SciWiNet is an NSF funded project (an EAGER grant) awarded to Clemson University and Rutgers University.
- SciWiNet represents a community of users that collectively provides a support system for academics whose research involves or requires cellular data services.