ACM SIGCOMM Workshop on Networked Systems for Developing Regions (NSDR)
Kyoto Japan, Aug 27, 2007

SIGCOMM

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The ACM SIGCOMM Workshop on Networked Systems for Developing Regions (NSDR) will be held with ACM SIGCOMM'07 and will provide a venue for researchers to propose and discuss ideas and to participate in the sustainable development and deployment of Internet and communication technologies for developing countries.

Benefits of the Internet and communication technologies are limited to a fraction of the world's population e.g. according to a 2006 survey Internet penetration in North America is 69.1% of population compared to 3.6% for Africa and 10.8% for Asia. Cost factors, low literacy, and limited access to power and bandwidth in developing regions seem to suggest that there is a need for communication technology research specifically aimed to meet the special needs of developing regions.

The great and diverse needs of developing regions (e.g. economic problems, social issues) call for a multi-disciplinary research agenda. However, the focus of NSDR is on communication and networking aspects of developing regions research (e.g. communication infrastructure in rural areas, systems build using such infrastructure that solve some specific problem).

PAPERS

We encourage submission of early works (position papers) describing interesting, original, previously unpublished ideas pertaining to networked systems for developing regions, which:

• propose new research directions,
• target a specific application,
• have the potential to significantly enhance the design and sustainable deployment of networked systems in developing regions,
• or could generate lively debate at the workshop.

Areas of interest include, but are not limited to:

• **Delay Tolerant Networking:** delay-tolerant Internet access in developing regions, DTN routing over wireless rural links
• **Rural Wireless:** long-distance 802.11, WiMaX solutions, directional antennas
• **Low-cost Computing Devices:** low-cost end-user devices which constitute the network, mobile phones as primary computing devices, task-specific devices
• **Sensor Networks:** sensor-nets designed specifically for developing regions
• **Power-Efficient Systems:** power-efficient computing architectures, power-efficient network infrastructure, power-efficient mobile systems
• **Sustainable Deployment:** pricing models for sustainable deployment of communication infrastructure
• **Applications:** healthcare, disaster management, education

IMPORTANT DATES

Submission: April 13, 2007 (23:59 EDT Extended Deadline)
Notification: May 18, 2007
Camera: Jun 13, 2007
Workshop: Aug 27, 2007

For more information see
http://nsdr.dritte.org