



# Call for Papers: **HotNets-IV**

## Fourth Workshop on Hot Topics in Networks



November 14-15, 2005  
College Park, MD USA

The Fourth Workshop on Hot Topics in Networks, HotNets-IV, will bring together researchers in the networking and distributed systems community to debate emerging research directions. The goal of the workshop is to promote community-wide discussion of ideas that will influence and foster continued research in the field. The workshop will provide a venue for researchers to present new ideas that have the potential to significantly impact the community in the long term, especially those that are architectural or design-oriented in nature.

Each potential participant should submit a short paper describing such an idea; the paper could, for example, expose a new problem, advocate a new solution, or debunk existing work. Attendance is limited to around 60 participants, by invitation based primarily on paper submissions. HotNets-IV is sponsored by ACM SIGCOMM.

We encourage submissions across the broad range of networking and distributed systems research, not limited to those topics covered by the SIGCOMM conference. Submissions may be on topics traditionally published at SIGCOMM, NSDI, SOSP/OSDI, SenSys, or MobiCom, or they may be on topics that have yet to find a home in an established conference. Topics of interest include, but are by no means limited to:

**General Chair:**

Neil Spring (UMD)

**Program Committee Co-Chairs:**

Jon Crowcroft (Cambridge)

Srinivasan Seshan (CMU)

**Program Committee:**

Bengt Ahlgren (SICS)

Paul Barford (UWisc)

John Byers (BU)

Deborah Estrin (UCLA)

Tim Griffin (Cambridge)

Venkata Padmanabhan (MSR)

Jen Rexford (Princeton)

Ion Stoica (UCB)

**Steering Committee:**

Larry Peterson (Princeton)

Alex Snoeren (UCSD)

John Wroclawski (MIT)

- Internet and non-Internet architectures, past, present, and future
- Overlay, peer-to-peer, and programmable network infrastructures
- Sensor networks, storage area networks, and other examples of "extreme" networking
- Wireless networks, mobility, and pervasive computing
- Network failures, vulnerabilities, and exploits: detection, analysis and defenses
- Network management and control
- Novel distributed applications and services, including systems for content distribution and real-time media
- Lessons drawn from failed research, and controversial/disruptive topics
- Architectural insights or understanding of network behaviors

The selection of HotNets papers will be based primarily on their potential to influence future research. This influence can be exercised in many ways, exemplified by but not limited to the following:

- Describing a novel approach to an old problem that promises to influence future research
- Describing a new problem that requires our attention
- Articulating a new perspective about networking and distributed systems
- Debunking an old perspective about networking and distributed systems

Copies of the accepted papers will be made publicly available via the Web prior to the workshop. Proceedings will be distributed at the workshop and will be made available through ACM's digital library. Examples of papers from past HotNets workshops can be found at: <http://www.acm.org/sigs/sigcomm/hotnets>. The Program Committee will write short New York Times Book Review-style reviews of accepted papers, for inclusion in the proceedings, to provide the broader community with an additional perspective on future directions in the field. Unlike other workshops and conferences, rejected papers will only receive a very short review.

The acceptance of a paper to the HotNets workshop does not preclude the later acceptance of a related paper to the ACM Sigcomm 2006 conference. However, any derived Sigcomm submission must provide a significantly more in-depth treatment of the idea, for example, by providing a more complete evaluation. Assuming that there is sufficient new material in a Sigcomm submission, the existence of a prior publication at HotNets will be ignored during the evaluation for acceptance to Sigcomm. Further details about this policy and its application to other conferences will be posted on the HotNets IV Web page (<http://www.acm.org/sigs/sigcomm/HotNets-IV>).

**Important dates:**

Submissions due: **August 1 2005**  
Acceptance notification: **October 10 2005**  
Camera-ready copy due: **October 31 2005**

**Workshop Web page and submission information:**

<http://www.acm.org/sigs/sigcomm/HotNets-IV>