

Call for Papers

ACM International Workshop on Wireless Mobile Applications and Services on WLAN Hotspots (WMASH) 2006

In conjunction with ACM MobiCom

<http://wmash.dit.unitn.it/>

EXTENDED Submission Deadline: June 20, 2006!!!

September 29, 2006
Los Angeles, California, USA

Important Dates:

- **EXTENDED** Paper Submission Deadline: ~~June 16, 2006~~ **Tue., June 20, 2006**
- Notification to authors: July 24, 2006
- Camera Ready Due: August 4, 2006

ACM WMASH aims to address and discuss the technical and business challenges, ideas, views, and research results in providing public wireless Internet services and applications for mobile users in small, highly-populated, public spaces (wireless LANs and "hotspots").

Since the beginning of the workshop in 2003 several research and business challenges related to public WLAN were put forward. These challenges still need to be explored and market needs to converge while new developments continue. The challenges are: What is the overall network architecture and service model? How to roam through multiple wireless access providers with a unique service contract? How to decouple the wireless infrastructure providers from the Internet service (and content) providers? How to locate service facilities in the wireless access domain and how to match the available facilities with the user needs? How to exploit location and context information? How to provide differentiated service levels to different customers? How to achieve seamless interoperation between WLAN-based hotspots and cellular and other emerging wireless data networks? The last challenge, concerning seamless interoperation, is catching the most attention these days leading to activities in IEEE 802 and in 3GPP to move quickly towards finding standardized solutions.

This workshop will aim at discussing these and several other challenges and issues behind the evolution of WLANs from cable replacement to public access. Leaders and thinkers of the field from academia and industry will assemble to share their ideas and views. Authors are invited to submit original technical papers or position papers, describing current research, experimental work and visions of the future. We are specifically interested in work dealing with network layer and above (layers 3-7). Within the context of interest to this workshop, a list of topics includes, but is not limited to:

- Applications and services
- New service and business models
- Public WLAN and hotspot architectures
- Community-owned WLAN infrastructures
- WLAN-based ad-hoc network service creation and management
- Metro-area hotspots using 802.11/802.16 mesh

- Multi-radio mesh node designs
- Self-configuring mesh networks for public hotspots
- Mobile routers for transient, portable hotspots
- Application case studies of mobile routers
- Inter-working with other wireless systems, e.g., 3G, 802.16
- Mobility, roaming, and handoff management
- Context-aware services and technologies
- Location-aware applications and services
- Multimedia wireless applications, e.g., Voice over WLAN (VoWLAN)
- Authentication, accounting, billing and payment issues
- Security and privacy in public WLANs
- Middleware support
- Service location and discovery
- Traffic measurements and modeling
- Case studies on deployed platforms and experimental test beds

Please consult the Program Co-Chairs Anand R. Prasad (prasad@docomolab-euro.com) and Sajal K. Das (das@cse.uta.edu) if you are uncertain whether your paper falls within the scope of the workshop.

Paper Submission:

The workshop solicits two types of contributions: **regular papers** and **posters**. Submitted regular papers must not be currently under review for any other publication. The poster session are meant for early research results. Posters may not preclude concurrent submissions on the same topic in regular conferences and journals.

All submissions will be reviewed by Technical Program Committee members, and will be judged by their technical merit, originality, and relevance to the workshop. All accepted regular papers and poster descriptions will be published in the workshop proceedings, which will be available at the ACM digital library. Selected regular papers will also be included in a special issue of an ACM journal. The page limits for a regular paper and a poster description are 10 and 3 pages, respectively.

All submissions will be handled electronically via the EDAS system. The exact format of the submission should be referred to the submission guideline at the workshop home page.

We expect authors of accepted papers/posters will attend the workshop and present their work.

Organizing Committee:

General Chair

- Renato Lo Cigno, University of Trento, Italy

Technical Program Co-Chairs

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- Sajal Das, The University of Texas at Arlington, USA

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- Danilo Severina, University of Trento, Italy

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