

# AOC2011

June 20-24, 2011 - Lucca, Italy

## The Fifth IEEE WoWMoM Workshop on Autonomic and Opportunistic Communications

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### Important Dates

Submission Deadline: ~~January 31, 2011~~  
**Extended Deadline: February 14, 2011**  
Notification: April 4, 2011  
Workshop: June 20-24, 2011

### Sponsors



For more information: <http://cnd.iit.cnr.it/aoc2011/>

### CALL FOR PAPERS

The diffusion of lightweight, powerful portable devices, also enriched with a variety of sensing capabilities, is enabling new ways for users to communicate, and is laying the foundation for the ubiquitous networking idea to become a reality. Risen from the ashes of traditional MANETs, which failed to cope with the variability of a network solely made up from mobile users, opportunistic communications have recently stood out and gained a lot of research attention. Opportunistic networking is the enabling strategy for communications in a mobile network. The idea of opportunistically exploiting extemporaneous contacts among the users of the network poses new and challenging problems, as well as providing with novel and promising opportunities, to the networking research community. The AOC 2011 workshop will be a meeting point for people working in the area and it will constitute a forum to exchange ideas, discuss solutions, and share experiences among researchers, professionals, and application developers, both from industry and academia. The AOC 2011 workshop will have a primary interest in the new directions of opportunistic communications represented by mobile social networking, content-centric networking, and participatory sensing. More in general, papers tackling issues related to opportunistic networking and computing are welcome. Original papers addressing both theoretical and practical aspects of autonomic and opportunistic communications are solicited, as well as papers describing prototype implementations and deployments.

Topics of interest include but are not limited to:

- Architectures and models for autonomic and opportunistic communications
- Advanced technologies for enabling autonomic and opportunistic communications
- Tools and techniques for designing, analysing and building autonomic and opportunistic networks
- Scaling laws and fundamental limits in autonomic and opportunistic communications
- Performance modeling of autonomic and opportunistic communications
- Autonomic and opportunistic communication testbeds and measurements
- Algorithms, models, and architectures for opportunistic computing
- Mechanisms, algorithms and testbeds for service provisioning in autonomic and opportunistic networks
- Algorithms, models, and architectures for content centric autonomic and opportunistic networks
- Mobile social networking in autonomic and opportunistic communications
- Participatory and urban sensing in autonomic and opportunistic networks
- Resource management techniques applied to autonomic and opportunistic communications
- Context and social awareness in autonomic and opportunistic networks
- Routing, transport, and reliability issues in autonomic and opportunistic communications
- Techniques for data dissemination and replication in autonomic and opportunistic networks
- Applications and middleware support for autonomic and opportunistic communications
- Mobility models and statistical analysis of mobility traces
- Trust, security, and reputation in autonomic and opportunistic communications
- Socio-economic models for autonomic and opportunistic communications