IEEE AOC'12 The 6th IEEE WoWMoM Workshop on
Autonomic and Opportunistic Communications

June 25, 2012 – San Francisco, California, Usa

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Important Dates

Registration Deadline: February 17, 2012
Submission Deadline: February 26, 2012
Notification: April 4, 2012
Workshop: June 25, 2012

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For more information: http://cnd.iit.cnr.it/aoc2012/

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The diffusion of lightweight, powerful portable devices, also enriched with a variety of sensing capabilities, is enabling new ways for users' communication, and laying the foundation for realizing the ubiquitous networking idea. Acting either as the main communication mode or as complement to existing mobile network infrastructures, opportunistic networking can leverage the mobility of end users and enhance their communication capabilities. The opportunistic exploitation of extemporary contacts among the users of the network paves the way to a number of applications but also poses new and challenging problems to the networking research community. The AOC 2012 workshop aims at serving as a meeting point for people working in the area and a forum for exchanging ideas, discussing solutions, and sharing experiences among researchers, professionals, and application developers, both from industry and academia. As with the previous five editions of the AOC workshop series, the scope of this year's workshop will remain on general issues related to opportunistic networking and computing. Yet, AOC 2012 will have a primary interest in new directions of opportunistic communications, such as service composition techniques, scenarios of co-existence with infrastructure networks, and insights to their operation coming from other disciplines such as game theory and cognitive psychology. The workshop will solicit original papers addressing theoretical and practical aspects of autonomic and opportunistic communications but also papers describing prototype implementations and deployments.

Topics of interest for AOC 2012 include, but are not limited to:

- Routing, transport, and reliability issues
- Techniques for data dissemination and replication
- Applications and middleware support, mobile social networking applications
- Mobility models and statistical analysis of mobility traces
- Context and social awareness mechanisms and algorithms
- Co-existence of opportunistic networks with infrastructure mobile wireless networks
- Service composition in autonomic and opportunistic networks
- Cognition-driven information processing and decision making
- Performance modelling, scaling laws, and fundamental limits for autonomic and opportunistic communications
- Game-theoretic insights to the operation of autonomic and opportunistic networks
- Participatory and urban sensing in autonomic and opportunistic networks
- Trust, security, and reputation
- Autonomic and opportunistic communication testbeds and prototypes, measurement data from real experiments
- Socio-economic models for autonomic and opportunistic communications

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