



**The First International Workshop on  
Cooperative Networking Applications,  
Theory & Usability Studies  
(CONATUS 2008)**

**To be held in conjunction with**

**The International Wireless  
Communications and Mobile Computing  
Conference 2008  
(IWCMC 2008)**

**August 6-8, 2008**

**Chania Crete Island, Greece**

## **Technical Overview**

The First International Workshop on **Cooperative Networking Applications, Theory & Usability Studies (CONATUS 2008)** will be held in conjunction with IWCMC 2008 which is an ACM sponsored premier conference. CONATUS 2008 provides a forum for engineers and scientists in academia, industry and government to present their latest research findings in cooperative ad-hoc and sensor networks and their potential applications.

In this workshop, we explore fundamental questions regarding the tradeoffs that cooperation introduces, and the role of these tradeoffs in the way that cooperation supports *communication itself*. Most prior work in this area has approached this issue from the vantage point of a node's willingness to forward messages along the next hop (toward the intended destination) along a multi-hop path. In contrast, we seek to broaden the scope of cooperation to include both **Mobility** and **Power** resources. Prior research adopts the consumer MANET and sensor networks model, in which the dynamic allocation of a node's mobility and power is either non-existent or considered the sacrosanct domain of the user, i.e. autonomously determined externally from the network infrastructure. This conception is appropriate for current consumer (e.g., cell phone and laptop) applications, but fails to leverage the unique opportunities present in mission-oriented MANET and sensor networks. Rightly viewed, coordinated contexts require that mobility and power be considered fundamental and contributable resources of every MANET or sensor node that may be contributed towards the common good vis-a-vis systemic objectives. Issues surrounding the cooperative use of power and mobility are the focus of **CONATUS@IWCMC 2008**.

## Areas of Interest

The areas of interest for **Cooperative Networking Applications, Theory & Usability Studies (CONATUS 2008)** include, but are not limited to, the following:

- Network design issues for Cooperative ad-hoc and sensor networks.
- Operation and Management Issues for Cooperative ad-hoc and sensor networks.
- Application Issues for Cooperative ad-hoc and sensor networks.
- The cooperative use of power and mobility and its impact on / application to:
  - o QoS routing in ad-hoc and sensor networks
  - o Topology control in ad-hoc and sensor networks
  - o Security in ad-hoc and sensor networks
  - o Civilian and military applications of ad-hoc and sensor networks.

The purpose of this workshop is to stimulate the study of cooperation (traffic forwarding, mobility, and power) in MANET and sensor networks. The workshop also addresses potential civilian and military applications of cooperative communication networks.

## Organizing Committee

### Workshop Co-Chairs:

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### Publicity Chair:

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## Important Dates

<b>Full Paper Submission</b>	<b>Extended to March 15<sup>th</sup>, 2008</b>
<b>Notification of Acceptance</b>	May 15, 2008
<b>Camera-Ready Version and Copyright Form Submission</b>	June 8, 2008
<b>Registration Deadline for Authors</b>	June 8, 2008
<b>Hotel Reservation Deadline</b>	July 10, 2008
<b>Conference Date</b>	August 6-8, 2008