

WNC3

International workshop on **Wireless Networks: Communication, Cooperation and Competition**

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Call for papers for WNC3'2008

April 4th, Berlin, Germany



Scope of the Symposium (part of WiOpt'2008)

Research in the area of wireless communication networks has recently experienced an unprecedented embrace by both industry and academia. Interest has been fueled by advances that promise exponential gains in the error performance of networks with reduced structure, little central oversight, and limited computational capabilities. The research area's utility and challenging nature is demonstrated both by the contributions from a variety of disciplines, such as information theory, discrete mathematics, game theory and finance, as well as from the effort to unify the above and to bring forth the inherent complexities of multi-terminal communication and interaction.

In pace with the above challenges, the workshop will promote new results which explore the theoretical limitations of network communications, propose novel network coding schemes, present relaying methods and cooperation protocols, and investigate fundamental tradeoffs between cooperation and competition for resource allocation. The aim being to provide the participants with an in-depth and unifying exposition to the complex nature of analyzing, coding, cooperating and competing in wireless networks, the workshop will seek to expose the intricacies of multi-terminal network theory and the advanced mathematical structures that support network communication and interactions.

Topics of Interest

In the framework of communication, cooperation and competition over wireless networks, papers are solicited in, but not limited to, the following directions.

- Cooperative diversity
- Network coding techniques
- Information theoretic bounds
- Stochastic network optimization
- Queueing theoretic aspects
- Application of game theory tools
- Application to sensor networks

Important Dates

Final paper submission deadline : **December 8, 2007**
Notification of acceptance : **January 21, 2008**
Camera-ready papers due : **February 21, 2008**
Early registration deadline : **March 1, 2008**

Papers and Submission

Please see at <http://www.wiopt.org>