

CALL FOR PAPERS

Journal of Combinatorial Optimization
Special Issue on: Network Applications

**** Submission Deadline: July 15, 2005 ****

Aims and Scope

Combinatorial optimization is widely used in networking research for network infrastructure deployment, resource management, as well as a broad range of network operations such as routing, QoS provisioning, etc. To advance and promote the theory and applications of combinatorial optimization in communication networks, we initiate this special issue. The scope of this issue includes all combinatorial optimization problems arising in optical networks, wireless ad hoc networks, sensor networks, mobile communication systems and satellite networks.

Topics of interest include, but are not limited to:

- Energy efficient operation of ad hoc and sensor networks
- Media Access Control in wireless ad hoc and sensor networks
- Routing in wireless ad hoc networks
- Data fusion and aggregation in sensor networks
- Topology control in ad hoc networks
- Low power design in sensor networks
- Resource management in wireless cellular networks, ad hoc networks and sensor networks
- Security and key management in wireless ad hoc networks
- Fault tolerant topology control and routing
- Queue management and QoS provisioning
- Call admission control and scheduling
- Complexity analysis and algorithm design for emerging problems in Internet, optical networks, wireless ad hoc and sensor networks, cellular networks, and satellite networks

Important Dates

Paper Submission: July 15, 2005

Acceptance Notification: September 1, 2005

Final Papers Due: October 1, 2005

Publication of Special Issue: December 2005

Paper Submission

The manuscripts should be prepared in PDF format and sent to Dr. Maggie Cheng at chengm@umr.edu. The preferred length of papers published in this special issue is approximately ten pages.

Guest Editor

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