3nd International Workshop on Localized Algorithms and Protocols for Wireless Sensor Networks

(In conjunction with DCOSS 2009)

Marina Del Rey, California, June, 2009

Important Dates:

Paper Submissions: March 01, 2009
Notification: April 15, 2009
Final Version: May 08, 2009

CALL FOR PAPERS

Following two successful events in 2007 and 2008, the 3nd International Workshop on Localized Algorithms and Protocols for Wireless Sensor Networks (LOCALGOS 2009) aims to cover comprehensively the algorithmic issues in the hot area of ad hoc and sensor networking.

This workshop concentrates on such network layer problems as data communication (routing, QoS-routing, geocasting, multicasting, broadcasting, etc.) and topology control (neighbor discovery, power adjustment, neighbor elimination, etc.). The main paradigm shift is to apply localized (or greedy) schemes as opposed to existing protocols requiring global information. Localized algorithms are distributed approaches where simple local node behavior achieves a desired global objective. Localized protocols provide scalable solutions, that is, solutions for wireless networks with an arbitrary number of nodes.

The objective of the workshop is to present state of the art research results on various aspects of localized algorithms and protocols in this rapidly growing area of ad hoc and sensor networks.

Topics of interest include but are not limited to:

- Localized unicast and multicast routing protocols
- Localized broadcasting algorithms
- Localized QoS communication protocols
- Localized geocasting protocols
- Localized clustering algorithms
- Localized protocols for duty-cycled sensor networks
- Localized auto-configuration and network formation algorithms
- Topology construction and maintenance based on local information
- Energy-efficient and bandwidth-efficient communication
- Relative positioning algorithms based on local information
- Network graph properties supporting localized protocols
- Localized algorithms for data management and query
- Localized incentive schemes for selfish wireless networks
- Localized algorithms in delay/disruption tolerant networks
- Security based on local information in wireless sensor networks
- Bounds analysis in localized solutions
- Worst and average case analysis in localized algorithms

Paper submission: Papers are solicited in the IEEE proceedings format with up to eight (8) pages. Papers in PDF format must be submitted via Easy Chair by using the following URL: http://www.easychair.org/conferences/?conf=localgos09 no later than March 01, 2009. All submissions must be original prior unpublished work and not under review elsewhere. All papers will be reviewed and selected based on their originality, merit, and relevance to the workshop. Accepted papers must be presented at the workshop, and will appear in the DCOSS proceedings. Please email songwz@wsu.edu and wu@cacs.louisiana.edu if you have any questions.

Website: http://sensorweb.vancouver.wsu.edu/services/localgos09/