

**The International Conference on Wireless Algorithms,
Systems, and Applications (WASA'06)**

August 15 -18, 2006

Xi'an, China

<http://wasa.cybersphere.net/>

[\(PDF Version\)](#)

**Sponsored by The Chinese Academy of Sciences,
The Operations Research Society of China, and
Xi'an Jiaotong University**

**In-Cooperation with
IEEE Technical Committee on Distributed Processing**

Recent advances in cutting-edge wireless communication and computing technologies have paved the way for the proliferation of ubiquitous infrastructure and infrastructureless wireless networks. These emerging networks are enabling a broad range of applications ranging from critical infrastructure protection and security, to environment monitoring, health care and quality of life. The need to deal with the complexity and ramifications of the ever growing mobile users and services, however, is intensifying the interest in the development of sound fundamental principles, novel algorithmic approaches, rigorous and repeatable design methodologies, and systematic evaluation frameworks for next generation wireless networks.

The objective of WASA is to address the research and development efforts of various issues in the area of algorithms, systems and applications for current and next generation infrastructure and infrastructureless wireless networks. The conference is structured to provide a forum for researchers and practitioners, from the academic, industrial and governmental sectors, with a unique opportunity to discuss and express their views on the current trends, challenges, and state of the art solutions addressing various issues related to current and next generation wireless networks.

This call is to solicit original technical papers, describing previously unpublished research work, visionary approaches, and future research directions dealing with effective and efficient state-of-the-art algorithm design and analysis, reliable and secure system development and implementations, experimental study and test bed validation, and new application exploration in wireless networks. Specific topics of interest include, but are not limited to, the following:

- Theoretical frameworks and analysis of fundamental design issues, including coverage, connectivity, lifetime and power, etc.
- Distributed and localized algorithm design and analysis
- Localization and location verification
- Mobility and mobility management models and model validation
- Topology control and coverage
- Security and privacy
- PHY/MAC/Routing frameworks and protocols

- QoS and fault-tolerance issues
- Information processing and data management
- Programmable service interfaces
- Energy-aware frameworks, systems and protocol design
- Operating system and middleware support
- Cross-layer design frameworks and protocols
- Software-defined radio, reconfigurable radio networks
- Pervasive and ubiquitous computing
- Local area and personal wireless networks
- Applications of ad hoc and sensor networks
- Experimental test-beds, models and case studies

This conference will feature several keynote speeches, given by leading researchers and practitioners in the areas of algorithms, systems, and applications in wireless networks.

All submissions will be handled electronically through the conference website and must be in PDF or PostScript. Papers must not exceed 15 pages (US "Letter" size, 8.5 x 11 inches) including text, figures and references in single-column, single-space format. The font size must be at least 10 points. Questions about the submission process should be directed to any [Program Chairs](#).

All papers will go through a rigorous review process during which three reviews will be sought. Accepted papers will be published in the conference proceedings, which will be published as Springer-LNCS series and distributed at the conference. Selected papers from the conference will be fast-tracked to one of three Special Issues of international Journals.

IMPORTANT DATES

Paper Submission Deadline: ~~March 12th, 2006~~ March 26th, 2006
 Notification of Acceptance: April 30th, 2006
 Camera Ready Copy: May 21st, 2006

ORGANIZING COMMITTEE

General Chairs:

Dingzhu Du, University of Texas at Dallas
 Xian Jiaotong University
 E-mail: dx056000@utdallas.edu

Wei Zhao, Texas A&M University
 National Science Foundation/CNS
 E-mail: zhao@cs.tamu.edu

Program Chairs:

Xiuzhen Susan Cheng
 The George Washington University
 E-mail: cheng@gwu.edu

Wei Li, The University of Toledo
 E-mail: wli@eecs.utoledo.edu

Taieb Znati, The University of Pittsburgh
 E-mail: znati@cs.pitt.edu