CALL FOR PAPERS

Special Session on
Collaborative Networking Infrastructure

Submission Deadline Extended: January 31, 2006

Brief Description:

A Special Session on collaborative networking infrastructure is being organized under the 2006 Collaborative Technologies Symposium (CTS'06) to be held May 14-17, 2006, Luxor Hotel, Las Vegas, Nevada, USA. This special session is planned to bring together people from industry, government and academia who are working to innovate, develop and use networking infrastructure for the purpose of collaborative work in various fields of knowledge. Some of the recent examples of collaborative work via networking include SPARC that researchers in upper atmospheric and space physics from around the world are able to use. SPARC provides the users with a set of online collaboration tools and workspaces that link together scientific instruments, data, and models. Work is in progress to design and test portable mobile collaborative networks that can be created to deal with emergencies.

This special session looks at all hardware and software issues that are involved in providing a reliable, robust and ubiquitous networking infrastructure to build collaborative tools and services and the state of the art as well as experimental results and posters about ongoing work in this direction. We invite original contributions on these emerging and important areas of information technology.

Topics of Interest include (but are not limited to):

High Speed Networking for Collaboration
Collaborative Sensory Networks
Group and Cooperative Communications
Event Detection, Classification and Tracking
Wireless, Mobile and Portable Collaborative Networking and Issues
Protocols for Collaborative Ad Hoc and Sensor Networks
Data Transport in Wireless Ad Hoc and Sensor Networks
Power-aware and Energy-efficient Designs
Localization and Synchronization in Wireless Sensor Networks
Data Gathering, Fusion, and Dissemination in Collaborative Wireless Sensors
Routing Protocols and Routing Metrics
Cross-layer Design and Optimization Methods
Application, Operating System and Middleware Support
Reliability, Security, and Trustworthiness in Ad Hoc and Sensor Networks
Fault-tolerance, Self-healing, and Reliability of Networks
Location Discovery and Time Synchronization Techniques
Network Coverage and Connectivity
Topology Discovery, Management and Self-organization
Network Scalability and Limitations
Building Community Networks Issues Performance Modeling and Analysis
Quality of Service Issues
Query Processing and Data Aggregation Design,
Implementation and Management of Collaborative Websites and Services
Tools and Techniques for Web based Collaborative Multimedia Communications
Software Development for Data Visualization from Distributed Data Centers

Paper Submission:

Papers reporting original and unpublished research results on above and any other related networking topics are solicited. Submission should include a cover page with authors' names, affiliations, addresses, fax and phone numbers, and email addresses. Please indicate clearly the corresponding author and the name of the special session. Include up to 6 keywords and an abstract of no more than 300 words. Please submit an electronic copy of your full manuscript (not to exceed 15 double-spaced pages including figures, tables, and references or not exceeding 7 pages in length in single-space, two columns IEEE format) for consideration, to session organizer at zubairi@fredonia.edu by **January 31, 2006**.

Consistent with standard practice, each submitted paper will receive three reviews. Papers will be selected based on their originality, timeliness, significance, relevance, and clarity of presentation. Initial selection will be based on full papers. Submission implies the willingness of at least one of the authors to register and present the paper, if accepted. All accepted papers in the Symposium are expected to be presented and will be included in the conference proceedings. It is our intent to have the proceedings formally published in hard and soft copies and be available at the time of the conference.

Important Dates:

Paper Submission Deadline:	**January 31, 2006**
Notification of Acceptance:	**February 15, 2006**
Registration & Camera-Ready Paper Due:	**March 10, 2006**

Special Session Organizers:

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If you have questions concerning session paper submission or session content, please contact the Special Session organizer at the address above.

For information or questions about the full Symposium's program, tutorials, exhibits, demos, panel and special sessions organization, please consult the conference web site at URL: http://www.engr.udayton.edu/faculty/wsmari/cts06/ or contact the symposium co-chairs: Bill McQuay at AFRL/IFSD, WPAFB (William.McQuay@wpafb.af.mil) or Waleed W. Smari at the Dept. of Electrical and Computer Engineering, University of Dayton (Waleed.Smari@notes.udayton.edu).