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### Special Issue on Recent Advances in Network and Parallel Computing

Network and parallel computing are important research and application fields of current information technology.

The Journal of Networks (JNW, ISSN 1796-2056) is a professional, peer-reviewed, open-access journal publishing high-quality scientific articles in networks field. The journal has a distinguished editorial board with extensive academic qualifications, ensuring that the journal will maintain high scientific standards and have a broad international coverage. The journal is abstracted and indexed in major databases including EBSCO, INSPEC, and EI Compendex. For details on the aims and scope of the journal, please visit the journal web site (URL: <http://www.academpublisher.com/jnw/>).

This special issue has its origins in the [International Conference on Network and Parallel Computing](#) (NPC 2008), which was held in Shanghai, China in October 2008. It will be published by Academy Publisher within the Journal of Networks.

The purpose of this special issue is to provide a channel to guarantee fast publication of extended versions of the high-quality conference papers on network and parallel computing in the Journal.

#### Topics

Topics of this special issue include the following tracks, but are not limited to:

##### **Topic I: Network applications**

1. Peer-to-peer computing
2. Cluster and Grid computing
3. Wireless computing
4. Ubiquitous computing
5. Internet Computing
6. Optical networks
7. Multimedia services and applications

##### **Topic II: Network technologies**

1. Communication technology
2. Web technology
3. Network storage
4. Network reliability, security, and dependability
5. Network algorithms
6. Scheduling and load balancing

##### **Topic III: Network and parallel architectures**

1. Shared and distributed memory
2. Nontraditional processor technologies
3. Network and interconnect architecture
4. Parallel I/O and storage systems
5. System design issues for low power and energy efficiency
6. Performance modeling and evaluation
7. Multicore design issues
8. OS support in hardware

##### **Topic IV: Parallel and distributed software**

1. Parallel programming models, languages and compilers
2. Runtime systems
3. Operating systems
4. Resource management
5. Middleware
6. Data mining
7. Programming environments and tools

## Important Dates

Papers submission:	December 1, 2008
Notification of acceptance:	March 1, 2009
Final paper due:	April 1, 2009
Tentative publication date:	June, 2009

## Submissions

Authors of papers presented at the NPC 2008 and Workshops are welcome to submit extended and revised versions of their papers. Manuscripts submitted for the special issue should report on original research, must contain at least 30% of new material compared to NPC 2008 and Workshop paper, and should not be under consideration for publication by any other journal.

This special issue also welcomes original high-quality contributions that have neither been published in nor submitted to any journals or refereed conferences.

Submissions must be directly sent in PDF format via email to the guest editor Prof. Jian Cao (Email: [cao-jian <at> sjtu.edu.cn](mailto:cao-jian@sjtu.edu.cn)). Please identify your submission in the email subject line "*Submission - JNW Special Issue on RANPC*". Complete guidelines for prospective authors can be found on-line at <http://www.academypublisher.com/forauthors.html>.

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