



Editor in Chief

Allan Gottlieb

gottlieb@nyu.edu

Guest Editors

Gregory Chockler

chockler@il.ibm.com

Eliezer Dekel

dekel@il.ibm.com

Joseph JaJa

joseph@umiacs.umd.edu

Jimmy Lin

jimmylin@umd.edu

Important dates

Paper submission due:

1 September 2009

1st review due:

15 November 2009

2nd review due:

15 December 2009

Acceptance notification:

31 December 2009

Final papers:

31 January 2010

Call for Papers

A Special Issue of Journal of Parallel and Distributed Computing on “Cloud Computing”

Cloud computing is emerging as a cost-effective paradigm for accessing and provisioning computational resources over the internet. Although today's solutions vary widely in their service, programming, and business models, they are invariably supported by large collections of physical resources spread over multiple distributed data centers. The expected unprecedented scale of these environments raises numerous new research questions and opens up new avenues for exploration by the parallel and distributed computing research community. This special issue seeks to catalyze this activity by focusing on all aspects pertaining to both classical and emerging topics in parallel and distributed computing with relevance for building scalable infrastructure for cloud computing.

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

- **Cloud Architectures:** compute, network, and storage architectures; consistency, reliability, and fault-tolerance models; privacy and security mechanisms;
- **Operational Aspects:** design and construction of data centers; power and resource management; virtualization and consolidation; monitoring and reporting; interoperability;
- **Programming Models and Algorithms:** parallel and distributed programming frameworks; workflow management; map-reduce algorithms and extensions;
- **Applications:** data-intensive applications; scalable analytics; traditional HPC applications in the cloud; data warehousing.



Guide for Authors

The submitted papers must be written in English and describe original research which is not published nor currently under review by other journals or conferences. Author guidelines for preparation of manuscript can be found at <http://ees.elsevier.com/jpdc>. For more information, please contact the Editor-in-Chief:

Submission Guideline

All manuscripts and any supplementary material should be submitted through Elsevier Editorial System (EES) at <http://ees.elsevier.com/jpdc>. Authors must select “**Special Issue: Cloud Computing**” when they reach the “Article Type” step in the submission process. First time users must register themselves as Author.