

CCGrid 2010

The 10th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing

May 17-20, 2010, Melbourne, Australia

<http://www.manjrasoft.com/ccgrid2010>

CALL FOR PAPERS

Tremendous advances in processing, communication and systems/middleware technologies are leading to new paradigms and platforms for computing, ranging from computing **Clusters** to widely distributed **Grid** and emerging **Clouds**. CCGrid is a series of very successful conferences, sponsored by the IEEE Computer Society Technical Committee on Scalable Computing (TCSC) and ACM, with the overarching goal of bringing together international researchers, developers, and users and to provide an international forum to present leading research activities and results on a broad range of topics related to these platforms and paradigms and their applications. The conference features keynotes, technical presentations, posters, workshops, tutorials, as well as the SCALE challenges featuring live demonstrations.

In 2010, CCGrid will return to Australia, to Melbourne, to celebrate its 10th anniversary. CCGrid 2010 will have a special focus on three important and immediate issues that are significantly influencing all aspects of Cluster, Cloud and Grid computing: **Economics**, **Environment and Autonomics**. Topics of interest include, but are not limited to:

- **Paradigms and Technologies:** System architectures, Design and deployment; Programming models, language, systems and tools/environments; Virtualization; Middleware technologies; Volunteer Computing.
- **Service-Orientation:** Service oriented architectures; Utility computing models; *aaS paradigm; Service composition and orchestration
- **Greening:** Environment friendly computing ecosystems; Hardware/software/application energy efficiency; Power and cooling; Thermal/power awareness
- **Autonomic Management:** Self-* behaviors, models and technologies; Autonomic paradigms and approaches (control-based, bio-inspired, emergent, etc.); Bio-inspired approaches to management; SLA definition and enforcement;
- **Economic Aspects:** Utility models and computing economies; Economic-based models and approaches.
- **Monitoring and Evaluation:** Performance models; Monitoring and evaluation tools, Analysis of system/application performance; Benchmarks and testbeds.
- **Security and Trust:** Cloud/Grid security and trust; Access control; Data privacy and integrity; Regulation.
- **Applications and Experiences:** Applications to real and complex problems in science, engineering, business and society; User studies; Experiences with large-scale deployments systems or applications.

JOURNAL SPECIAL ISSUE:

Highly rated Top 5 papers from the CCGrid 2010 conference will be selected for publication in a special issue of the "Future Generation Computer Systems (FGCS)" Journal published by Elsevier Press.

CALL FOR WORKSHOP PAPERS

CCGrid 2010 is inviting papers submissions to a list of workshops on emerging topics. For details, please visit:

<http://www.manjrasoft.com/ccgrid2010/workshoplist.html>

PAPER SUBMISSION

Authors are invited to submit papers electronically. Submitted manuscripts should be structured as technical papers and may not exceed 10 letter size (8.5 x 11) pages including figures, tables and references using the IEEE format for conference proceedings (print area of 6-1/2 inches (16.51 cm) wide by 8-7/8 inches (22.51 cm) high, two-column format with columns 3-1/16 inches (7.85 cm) wide with a 3/8 inch (0.81 cm) space between them, single-spaced 10-point Times fully justified text). Submissions not conforming to these guidelines may be returned without review. Authors should submit the manuscript in PDF format and make sure that the file will print on a printer that uses letter size (8.5 x 11) paper. The official language of the meeting is English. All manuscripts will be reviewed and will be judged on correctness, originality, technical strength, significance, quality of presentation, and interest and relevance to the conference attendees.

Submitted papers must represent original unpublished research that is not currently under review for any other conference or journal. Papers not following these guidelines will be rejected without review and further action may be taken, including (but not limited to) notifications sent to the heads of the institutions of the authors and sponsors of the conference. Submissions received after the due date, exceeding length limit, or not appropriately structured may also not be considered. Authors may contact the conference chairs for more information. The proceedings will be published through the IEEE Computer Society Press, USA and will be made online through the IEEE Digital Library.

CHAIRS & COMMITTEES

General Chair

Rajkumar Buyya, University of Melbourne and
Manjrasoft Pty Ltd, Australia

Program Committee Chair

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James Broberg, University of Melbourne, Australia

Publicity Chair

Cho-Li Wang, University of Hong Kong, China

IMPORTANT DATES (TENTATIVE)

Papers Due: 13 November 2009 (extended)
Notification of Acceptance: 25 January 2009
Camera Ready Papers Due: 20 February 2010

SPONSORSHIPS (PENDING)

IEEE Computer Society TCSC, ACM SIGARCH