8th IEEE International Conference on eScience
http://www.ci.uchicago.edu/escience2012/
October 8-12, 2012, Chicago, IL, USA

The 8th IEEE International Conference on eScience (eScience 2012) will be held in Chicago 8-12 October 2012, with workshops (including the Microsoft eScience Workshop) on 8-9 October and the main conference events on 10-12 October. In addition, there are two co-located events, which will have some joint sessions with eScience: Open Grid Forum OGF36 on 8-10 October, and the 12th Annual Global LambdaGrid Workshop (GLIF) on 11-12 October.

Call for Submissions:

Researchers in all disciplines are increasingly adopting digital tools, techniques and practices, often in communities and projects that span disciplines, laboratories, organizations, and national boundaries. The eScience 2012 conference is designed to bring together leading international and interdisciplinary research communities, developers, and users of eScience applications and enabling IT technologies. The conference serves as a forum to present the results of the latest applications research and product/tool developments and to highlight related activities from around the world. Also, we are now entering the second decade of eScience and the 2012 conference gives an opportunity to take stock of what has been achieved so far and look forward to the challenges and opportunities the next decade will bring.

A special emphasis of the 2012 conference is on advances in the application of technology in a particular discipline. Accordingly, significant advances in applications science and technology will be considered as important as the development of new technologies themselves. Further, we welcome contributions in educational activities under any of these disciplines.

As a result, the conference will be structured around two e-Science tracks:

### eScience Algorithms and Applications:
- eScience application areas, including:
  - physical sciences; biomedical sciences; social sciences and humanities
  - Data-oriented approaches and applications
  - Compute-oriented approaches and applications
  - Extreme scale approaches and applications

### Cyberinfrastructure to support eScience:
- Novel hardware
- Novel uses of production infrastructure
- Software and services
- Tools

**PAPERS:**

The conference proceedings will be published by the IEEE Computer Society Press, USA and will be made available online through the IEEE Digital Library. Selected papers will be invited to submit extended versions to a special issue of the Future Generation Computer Systems (FGCS) journal.

Authors are invited to submit papers with unpublished, original work of not more than 8 pages of double column text using single spaced 10 point size on 8.5 x 11 inch pages, as per IEEE 8.5 x 11 manuscript guidelines. (Up to 2 additional pages may be purchased for US$150/page)

It is a requirement that at least one author of each accepted paper attend the conference.

**EARLY RESULTS AND WORKS-IN-PROGRESS POSTERS:**

The posters track will provide an opportunity for researchers to present and demonstrate their new and innovative work-in-progress and obtain feedback from their peers in an informal setting. In addition, posters may summarize interesting on-going research projects in a compact format. The poster session will provide conference attendees with a forum where they can learn about novel on-going research projects that might not yet be complete, but whose preliminary results are already interesting.

Authors are encouraged to submit interesting results on all aspects of conference interest topics. Posters will be peer-reviewed by members of the Posters Committee based on originality, significance, quality, and clarity. In addition to the 2-page submission, accepted poster authors will be asked to generate a poster and possible demonstration to be displayed during a poster session at the conference. Video and live demonstrations of prototypes from industry alongside the posters are welcome. To encourage high-quality submissions, awards will
be presented to the Best Poster and the Best Student Poster.

Early Results and Works-in-Progress Posters will be presented in a poster session and reception Wednesday, 10 October 2012. Poster papers will be archived on the eScience2012 web site.

Authors are invited to submit papers with unpublished, original work of not more than 2 pages of double column text using single spaced 10 point size on 8.5 x 11 inch pages, as per IEEE 8.5 x 11 manuscript guidelines. (Up to 2 additional pages may be purchased for US$150/page)

It is a requirement that at least one author of each accepted poster attend the conference.

WORKSHOPS:

Multiple e-Science 2012 Workshops will be held on Monday and Tuesday, 8th and 9th October. Workshops are an important part of the conference in providing opportunity for researchers to present their work in a more focused way than the conference itself and to have discussion of particular topics of interest to the community. We cordially invite you to submit workshop proposals on any eScience related topic to the Workshop Chair.

To help those interested know their purpose and scope, workshop proposals should include:

- A description of the workshop, its focus, goals, and outcome
- A draft call for papers
- Names and affiliations of the organizers and tentative composition of the committees
- Expected numbers of submissions and accepted papers
- Prior history of this workshop, if any. Please include: number of submissions, number of accepted papers, and attendee count.

Workshop organizers are responsible for establishing a program committee, collecting and evaluating submissions, notifying authors of acceptance or rejection in due time, ensuring a transparent and fair selection process, organizing selected papers into sessions, and assigning session chairs. Proposals will be selected that show clear focus and objectives in areas of emerging or developing interest guaranteed to generate significant interest in the community.

Once accepted, the workshop should establish its own paper submission system. For each paper selected for publication, an author must be registered for eScience 2012. Each paper must be presented in person by at least one of the authors. It is expected that the proceedings of the eScience 2012 workshops will be published by the IEEE Computer Society Press, USA and will be made available online through the IEEE Digital Library.

SUBMISSION PROCESS:

Templates for papers and posters are available from http://www.ieee.org/conferences_events/conferences/publishing/templates.html. Authors should submit a PDF file that will print on a PostScript printer to https://www.easychair.org/conferences/?conf=escience2012

Workshop proposals should be emailed to escience2012-workshops@fnal.gov

IMPORTANT DATES:

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ORGANIZATION:

General Chair: Ian Foster, University of Chicago and Argonne National Laboratory, USA
Program Co-Chairs: Daniel S. Katz, University of Chicago and Argonne National Laboratory, USA; Heinz Stockinger, SIB Swiss Institute of Bioinformatics, Switzerland
Program Vice Co-Chairs (eScience Algorithms and Applications Track): David Abramson, Monash University, Australia; Gabrielle Allen, Louisiana State University, USA
Program Vice Co-Chairs (Cyberinfrastructure to support eScience Track): Rosa M. Badia, Barcelona Supercomputing Center / CSIC, Spain; Geoffrey Fox, Indiana University, USA
Workshops Chair: Ruth Pordes, FNAL, USA
Early Results and Works-in-Progress Posters: Roger Barga, Microsoft, USA
Sponsorship Chair: Charlie Catlett, Argonne National Laboratory, USA
Conference Manager and Finance Chair: Julie Wulf-Knoerzer, University of Chicago and Argonne National Laboratory, USA
Publicity Chairs: Kento Aida, National Institute of Informatics, Japan; Ioan Raicu, Illinois Institute of Technology, USA; David Wallom, Oxford e-Science Research Centre, UK
Local Organizing Committee: Ninfa Mayorga, University of Chicago, USA; Evelyn Rayburn, University of Chicago, USA; Lynn Valentini, Argonne National Laboratory, USA
Program and Poster Committees: see conference website