



IEEE 2009 Third International Workshop on Scientific Workflows (SWF 2009)

Los Angeles, USA, July 7, 2009

<http://www.cs.wayne.edu/~shiyong/swf/>

In conjunction with IEEE International Conference on Web
Services (ICWS 2009)



Call for Papers

Today, many scientific discoveries are achieved through complex and distributed scientific computations that are represented and structured as scientific workflows. User friendly scientific workflow systems are increasingly being developed to enable e-scientists to integrate, structure, and orchestrate various local or remote data and service resources to perform various in silico experiments to produce interesting scientific discovery. The critical role of scientific workflows in cyberinfrastructure has been recognized by a recent NSF workshop on the challenges of scientific workflows in May 2006, which concluded that “workflows should become first-class entities in cyberinfrastructure architecture. For domain scientists, they are important because workflows document and manage the increasingly complex processes involved in exploration and discovery through computations. For computer scientists, workflows provide a formal and declarative representation of complex distributed computations that must be managed efficiently through their lifecycle from assembly, to execution, to sharing.”

Authors are invited to submit **regular papers** (8 pages), **short papers** (4 pages), and **demo papers** (2 pages) that show original unpublished research results in all areas of scientific workflows. Topics of interest are listed below; however, submissions on all aspects of scientific workflows are welcome. For demo papers, at least one author is expected to present a demo in the workshop during the demo session, special arrangement will be made to meet the need of the authors. Accepted SWF 2009 papers will be included in the proceedings of SERVICES 2009 (Part I), which will be published by IEEE Computer Society Press.

Topics

- Architecture, model, and language
- Provenance management
- Task management
- Workflow scheduling
- Data product management
- Monitoring and failure handling
- Service, Grid, and Cloud workflows
- Scientific workflow composition
- Scientific workflow security
- Modeling, simulation, analysis
- Scalability, reliability, extensibility
- Scientific workflow applications

Important dates

February 16, 2009, paper submission; March 20, 2009, notification; April 10, 2009, camera-ready version due.

Workshop organizers

Workshop chairs: Shiyong Lu, Wayne State University, shiyong@wayne.edu; Calton Pu, Georgia Tech

Publicity chairs: Yong Zhao, Microsoft Corporation; Ilkay Altintas, San Diego Supercomputer Center

Publication chair: Cui Lin, Wayne State University

Previous SWF workshops

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