

**IEEE First International Workshop on
Cloud Federation Management:
Identity, Resources and Applications (CFM:IRA 2014)**

CALL FOR PAPERS

As part of the
7th IEEE/ACM International Conference on Utility and Cloud Computing (UCC 2014)
December 8-11, 2014 -- London, UK
<http://computing.derby.ac.uk/ucc2014>

Scope, Participants, and Objectives:

This workshop will explore the fundamental concepts, design options, and challenges for managing cloud federations. Cloud federation involves all levels of the cloud system software stack, e.g., identity, resources, and applications. Across all of these areas, though, secure federation management is a key issue, i.e., how federations are initiated, how trust is established, how policies are decided and enforced, either unilaterally or jointly, etc. Effectively addressing these issues will entail not only an enormous amount of technical work, but also an enormous amount of cultural adaptation to fully realize the benefits of cloud federation.

There is an increasing awareness that cloud federation is a fundamental capability and necessary prerequisite to enabling the kind of global "inter-cloud" that many associate with being "in the cloud". The international scientific community has long recognized the need for federation management across operational grids. In 2011, the US Government Cloud Computing Technology Roadmap identified ten high-priority requirements for cloud computing, including "Frameworks to Support Federated Community Clouds", to manage interactions and collaborations across many different government agencies. Cloud federation across international boundaries has also been recognized, most notably for the secure, on-demand sharing of data for international disaster response efforts. Cloud federation will also enable a wide range of business-to-business interactions, such as supply chain management and even feature film production. Hence, participation from across all of these sectors is expected and encouraged.

Beyond paper presentations, the objective of this workshop is to engage technology producers, consumers, and funding agencies in realizing the future of cloud federation management.

The Workshop topics include (but are not limited to) the following:

- Federated Identity Management
- Federated Resource Management
- Identity Attribute Management
- Delegation of Trust
- Trust Federations
- Broker/Proxy Approaches
- Authorization Attribute Name Space Management
- Software-Defined Networks to support Cloud Fed Management
- Big Data Management in Federated Environments
- Mobile Federated Environments
- Testbeds and Experimental Results
- Federation Standards
- Governance and Regulatory Issues
- Adoption Challenges and Strategies

Paper Submissions:

Authors are invited to submit papers electronically through *<EasyChair>*. All accepted workshop papers will be published as part of the UCC conference proceedings. Workshop papers have a maximum of 6 pages in length in IEEE format. At least one author of each paper must register for the workshop. 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.

Important Dates:

Workshop paper submission: 1 August 2014

Notification of Acceptance: 29 August 2014

Proceedings-ready Copy: <??> September 2014 *<depends on main conference>*

Workshop Organizers:

Dr. Craig A. Lee, lee@aero.org
Senior Scientist, The Aerospace Corporation
Board Member, Open Grid Forum

David Bernstein, david@cloudstrategypartners.com
Managing Director, Cloud Strategy Partners, LLC
Founder/Chairman, IEEE P2302: Standard for Intercloud Interoperability and Federation
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