



# IEEE Cloud Computing Call for Papers

# Special Issue on Multicloud

**Submission deadline: 2 January 2017 • Publication date: July/August 2017**

As Cloud Computing evolved to a widely used computing as a service model, limitations and intrinsic characteristics of monolithic cloud provider offerings emerged. Moreover, specialized computing power such as clusters, GPUs, solid state storage, and specific applications at different service levels can now be acquired as services from different providers. The use of a combination of cloud services from various providers can be performed to contour limitations of a single provider and enhance application execution by gathering together the necessary specific, on demand resources for a wide range of applications.

This *IEEE Cloud Computing* Magazine Special Issue on Multicloud aims to cover all aspects of connecting multiple clouds to allow automatic, transparent, and on demand application execution that takes advantage from the synergy among resources of different providers. For this synergy to become effective and efficient, connecting different providers across their boundaries brings new, challenging efforts. Multicloud deployment must solve challenges that include resource management and scheduling, identity management, trust and security issues, business models, and incentive mechanisms in multicloud environments. We invite authors to submit outstanding and original manuscripts on the following topics within the context of multiclouds:

- brokering mechanisms,
- resource discovery and management,
- security and privacy,
- authentication and authorization,
- applications and case studies,
- auditing and accounting,
- multicloud APIs,
- monitoring,
- data management,
- performance modeling and evaluation,

- cloud federations,
- scheduling and load balancing,
- hybrid clouds,
- autonomic management,
- multicloud and the Internet of Things,
- QoS and QoE,
- economic and business models,
- cross-service-level management (IaaS, PaaS, SaaS, and XaaS),
- incentive mechanisms, and
- multiclouds and green computing.

## Guest Editors

- Dr. Luiz F. Bittencourt, University of Campinas
- Dr. Rodrigo N. Calheiros, University of Melbourne
- Dr. Craig A. Lee, Aerospace Corporation

## Submission Information

Submissions should be 3,000 to 5,000 words long, with a maximum of 15 references, and should follow the magazine's guidelines on style and presentation (see <https://www.computer.org/web/peer-review/magazines> for full author guidelines). All submissions will be subject to single-blind, anonymous review in accordance with normal practice for scientific publications. For more information, contact the guest editors at [ccm4-2017@computer.org](mailto:ccm4-2017@computer.org).

Authors should not assume that the audience will have specialized experience in a particular subfield. All accepted articles will be edited according to the IEEE Computer Society style guide ([www.computer.org/web/publications/styleguide](http://www.computer.org/web/publications/styleguide)).

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