

CALL FOR PAPERS

The 3rd International Workshop on
Algorithmic Aspects of Cloud Computing (ALGO CLOUD'17)
Vienna, Austria, September 4th-5th, 2017

<https://algo2017.ac.tuwien.ac.at/algocloud/>
co-located with ALGO Congress

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Scope:

ALGO CLOUD is the international forum bringing together international researchers, students, and practitioners to present research activities and results on topics related to algorithmic, design, and development aspects of modern cloud-based systems. ALGO CLOUD is co-located with the ALGO Congress, a leading international meeting of researchers working in algorithms and their engineering.

ALGO CLOUD welcomes submissions on all theoretical, design, and implementation aspects of modern cloud-based systems. ALGO CLOUD is particularly interested in novel algorithms in the context of cloud computing, cloud architectures, as well as experimental work that evaluates contemporary cloud approaches and pertinent applications. ALGO CLOUD also welcomes demonstration manuscripts, which discuss successful elastic system developments, as well as experience/use-case articles. Contributions may span a wide range of algorithms for modeling, practices for constructing and techniques for evaluating operations and services in a variety of systems, including but not limited to, virtualized infrastructures, cloud platforms, datacenters, cloud-storage options, cloud data management, non-traditional key-value stores on the cloud, HPC architectures, etc.

Topics of Interest:

- Algorithmic aspects of elasticity
- Search and retrieval algorithms for cloud infrastructures
- Scale-up and -out for NoSQL and columnar databases
- Resource provisioning and management
- Monitoring and analysis of elasticity for virtualized environments
- Analysis of containerized applications
- Cloud deployment tools and their analysis
- Query languages and novel programming models
- Content delivery through cloud infrastructures
- Load-sharing and caching for cloud systems
- Data structures and algorithms for eventually-consistent stores
- Scalable access structures and indexing for cloud data-stores
- Algorithmic aspects for cloud applications
- Machine learning, analytics and data science
- Resource availability, reliability and fail-over
- NoSQL and schema-less data modeling and integration
- Consistency, replication and partitioning CAP
- Transactional models and algorithms for cloud data-stores

Solicitation:

Original research contributions are sought. Submissions must have a length of up to 12 pages in *L_NC_S* format excluding references and an optional appendix to be read at the discretion of the Program Committee. Authors are invited to submit their manuscripts in PDF using EasyChair on or before *June 23rd, 2017*. Important dates are:

Paper Submission	June 23rd, 2017
Notification of Acceptance	July 25th, 2017
Camera-Ready Due	September 1st, 2017