

Call for Paper

The 14th IEEE International Conference on Cloud Computing Technology and Science

CLOUDCOM2023

Naples, Italy, 4-6 December 2023

<http://2023.cloudcom.org>

IEEE CloudCom is the premier conference on Cloud Computing worldwide, attracting researchers, engineers, and students from the fields of cloud computing, big data, systems architecture, service-oriented architecture, virtualization, security and privacy, high performance computing, always with an emphasis on how to build cloud computing platforms with impact.

The conference is co-sponsored by the Institute of Electrical and Electronics Engineers (IEEE), is steered by the Cloud Computing Association, and draws on the excellence of its world-class Program Committee and its participants.

Distinguished papers will be invited for fast-track publication of extended versions in Springer's Journal of Cloud Computing and the top Security & Privacy articles in a special issue of MDPI's Journal of Cybersecurity and Privacy (JCP)

Topics of interest include (but are not limited to):

CLOUD ARCHITECTURE

- Virtualization technologies and enablers, Virtual machines, Containers
- Unikernels and Microservices and cloud services delivery models
- Networking technologies
- Cloud system design with FPGAs, GPUs, APUs
- Storage and virtualization, Storage & file systems
- Scalability, performance, and Cloud elasticity
- Resource provisioning, monitoring, management & maintenance Cloud capacity planning
- Operational, economic & business models
- Energy efficiency, Green data centers
- Resilience, fault-tolerance, disaster recovery
- Modeling & performance evaluation

SECURITY, PRIVACY AND TRUST

- Accountability & auditing
- Blockchain Cloud services
- Cryptography in the Cloud, Cryptographic protocols against internal attacks in the Cloud
- Hypervisor security
- Authentication, Authorization, Identity management, Security as a service, Secure, interoperable identity management
- Trust models for Cloud services, Trust & credential management,
- Security risk management in Cloud computing environments
- Privacy protection in Cloud platforms, Privacy policy framework in the Cloud Privacy-preserving data mining in the Cloud, Information sharing and data protection in the Cloud, Prevention of data loss or leakage
- Energy, cost, efficiency of security in the Cloud
- Security SLAs

IMPORTANT DATES

- Deadline for submission of full papers: 31/07/2023
- Acceptance notification: 01/10/2023
- Final camera-ready papers due: 01/11/2023

SUBMISSION

Submitted papers must not substantially overlap papers that have been published or that are simultaneously submitted to a journal or a conference with proceedings. Authors must submit their papers by the deadline indicated below, using the [EasyChair submission system](https://www.easychair.org).

Only PDF files will be accepted. Manuscripts need to be prepared according to the [IEEE CS format](https://www.easychair.org). All regular paper submissions should be written in English with a maximum paper length of 8 pages, including references and everything. All submitted papers will be reviewed by at least three experts.

Detailed instructions for electronic submission and review process can be found at <http://2023.cloudcom.org>

CLOUD SERVICES AND APPLICATIONS

- Cloud services models, frameworks, Cloud protocols
- Cloud programming models, Cloud Application development methodologies and tools, debugging tools, benchmarks, and
- Cloud services reference models & standardization
- XaaS (everything as a service including IaaS, PaaS, and SaaS), Services for compute-intensive applications, for emerging technologies
- Service deployment and orchestration in the Cloud,
- Data management applications & services, Data-provisioning services, Systems interactions and machine learning,
- Fault-tolerance & availability of cloud services and applications, Mining and analytics, Traffic prediction models and auto-scaling for Cloud services
- Business models & economics of Cloud services

EDGE COMPUTING, IOT AND DISTRIBUTED CLOUD

- Cloudlet-enabled applications, Software infrastructure for cloudlets, Distributed Cloud infrastructure
- Foundations and principles of distributed Cloud computing
- Architectural models, prototype implementations and applications, inter-cloud architecture models
- Cloud brokers and coordination across multiple resource managers
- Dynamic resource, service and context management in edge computing
- Fog computing
- IoT cloud architectures & models
- Cloud-based context-aware IoT
- Economics and pricing
- Existing deployments and measurements of public, private, hybrid, and federated environments

PROGRAM CHAIRS

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