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.

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

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

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

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

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

PROGRAM CHAIRS

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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.

Only PDF files will be accepted. Manuscripts need to be prepared according to the IEEE CS format . 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**