

📅 July 7-12, 2025

CONFERENCE WEBSITE: <https://services.conferences.computer.org/2025/cloud/>

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## | About the Conference

IEEE International Conference on Cloud Computing  
(IEEE CLOUD 2025)

July 7-12, 2025, Helsinki, Finland

<https://services.conferences.computer.org/2025/cloud/>

IEEE CLOUD is the flagship conference focusing on innovative cloud computing across all “Everything as a Service” (XaaS) paradigms. This includes modeling, designing, developing, publishing, monitoring, managing, operating, delivering, and scaling XaaS offerings from the cloud to the edge. The conference is a prime international forum for researchers, academics, businesses, industry, and standard bodies to exchange the latest advances in the state of the art and practice of cloud computing, identify emerging research topics, and define the future of cloud computing.

IEEE CLOUD 2025 invites researchers, practitioners, and innovators to submit original papers addressing all aspects of cloud computing infrastructure, technologies, applications, and business innovations. Topics of interest include but are not limited to the following.

### Important Dates

JUL  
07

CONFERENCE  
DATE  
**July 7-12,  
2025**

## Cloud Architecture and Infrastructure

- Data center architectures
- Virtualization and multi-tenancy
- Cloud storage
- Cloud-native programming models (serverless, microservices, service mesh, etc.)
- Software-based networking technologies (SDN, NFV)
- Multi-cloud and cloud federation environments
- Private and hybrid cloud environments
- Edge and fog computing infrastructure

## Cloud Management and Operation

- Performance monitoring and optimization
- Fault tolerance, high availability, and reliability
- Resource allocation and scheduling
- Load balancing and automated scaling
- Cost optimization strategies
- DevOps, CI/CD, IaC and cloud automation
- Optimizing AI workloads on heterogeneous infrastructure
- Optimizing heterogeneous infrastructure for AI workloads

## Sustainable Cloud Computing

- Carbon footprint measurement for hardware and software systems
- Carbon-aware and grid-aware system management
- Sustainable data center design
- Sustainable software development practices for cloud services
- Energy-efficient service architectures

- Green cloud architectures and solutions

## Cloud Security and Privacy

- Trusted environments and Zero trust architectures
- Identity and access management, authorization, and authentication
- Assurance, audit, certification, regulatory compliance
- Privacy-aware and cross-data center data management

## Cloud Computing in Emerging Technologies

- AI and ML in cloud environments
- Edge intelligence & AI analytics at the edge
- IoT cloud platforms
- Digital twins & metaverse Applications
- Quantum computing integration
- 5G/6G and cloud integration
- Blockchain in cloud services

## Cloud Economics

- Strategies for enterprise business transformation
- Cloud Service Level Agreements (SLAs) and Service Level Objectives (SLOs)
- Economic and business models for XaaS (including RoI analysis)
- Economic models for AI cloud deployments
- Adaptive pricing strategies
- Cross-cloud market mechanisms

\*\*\*IMPORTANT DATES (ANYWHERE ON EARTH)\*\*\*

Open Submission: December 1, 2024

Abstract Submission Deadline: February 24, 2025

Paper Submission Deadline: March 3, 2025

Acceptance Notification: May 6, 2025

\*\*\*MANUSCRIPT GUIDELINES AND SUBMISSION  
INFORMATION\*\*\*

Please visit the Information for Authors page on  
the Congress website for manuscript guidelines:  
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