2025 IEEE 25th International Conference on COMMUNICATION TECHNOLOGY

Track 6. Cloud and Edge Computing

The capabilities of cloud and edge computing systems now cover three basic organizational needs: networking, storage and computing. By using cloud technologies, data processing and storage become resilient, scalable and adaptable. Alternatively, edge and fog computing brings unparalleled performance to mobile applications and the Internet of Things (IoT) by moving communication, computation and caching resource closer to edge and terminal user devices. Nonetheless, there are numerous significant technical challenges to be addressed including secure virtualization of compute, storage and network resources; dependable distributed storage for big data applications and small devices; high-speed networking in complex and heterogeneous environments; information processing and computing with varying requirements for quality of service; development of algorithms and protocols for improved system integration and computing services; and support for emerging applications such as IoT, artificial intelligence (AI), virtual reality/augmented reality (VR/AR), blockchain, big data robotics, and more.

Topics

- Platforms, infrastructures and applications
- Sustainability and energy efficiency in cloud/edge/fog computing
- Resource allocation, task offloading, SDN/NVF techniques
- Service optimization, communication protocol design in public/private/hybrid Clouds
- Virtualization across data centers and storage
- Machine learning models for edge intelligence/VR/AR
- Cloud computing and big data
- Data center Network (DCN) architectures
- Communications and networking for clouds/edges/fogs
- Cloud/edge/fog computing and on-demand computing models
- Geographical constraints for deploying clouds/edges/fogs
- Privacy, security, ownership and reliability issues
- Cloud/edge/fog performance, QOS and dynamic resource provisioning
- Load balancing and application streaming
- Roaming and mobile services in clouds/edges/fogs
- Content and service distribution
- Enterprise-centric cloud/edge/fog computing

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Submission Instruction

Submission Link:
https://easychair.org/conferences/?conf=icct2025 and select Track 6
Template Paper (Word):
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Important Dates

Paper Submission Deadline: ..... May 25, 2025
Notification of Acceptance: ..... June 25, 2025

Co-Sponsored by: IEEE Beijing Section; IEEE China Council 中国联合会; Northeastern University
Hosted by: Northeastern University
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