SEC

The Sixth ACM/IEEE Symposium on Edge Computing

San Jose, CA, December 14-17, 2021



The 2nd Workshop on Edge Computing and Communications (EdgeComm)

in conjunction of the Sixth ACM/IEEE Symposium on Edge Computing (SEC 2021)

http://acm-ieee-sec.org/2021/

Call for Papers

Edge computing emerges as a critical technology component of modern Information and Communication Technology (ICT) industry provisioning storage and computation resources in the proximity of end devices to provide low latency services. By incorporating storage and computation resources in networks, joint allocation and management of communication, computing and storage resources will improve the quality of service and user experience, especially for various delay-sensitive applications. The advancement of edge computing poses many challenges, such as deployment and management of distributed resources. Furthermore, end devices may be mobile all the time and their requests may also change over time, creating spatial and temporal dynamics of workloads in the network. The edge computing system itself also exhibits high dynamics in aspects of network channel conditions, computation and data storage capacities, making system and resource management challenging. The objective of this workshop is to explore recent advances in edge computing systems as well as their associated communication strategies to address the fundamental and practical challenges through disseminations of the state-of-the-art research and discussions between researchers and practitioners in both computing and communication societies. The workshop will be co-located with the sixth ACM/IEEE Symposium on Edge Computing (SEC), November 14-17, 2021, in San Jose CA, USA.

We invite submissions of the novel research on communication and computing design aspects of edge computing, including but not limited to:

- Edge computing infrastructure and edge-enabled applications
- Computing and communication architecture for edge computing and devices
- Workload offloading for edge computing systems
- Resource management and reliability for edge computing
- Energy efficiency of edge computing
- Algorithms and techniques for federated/machine learning and artificial intelligence at the edge
- Novel computing and communications models
- In-network computing and storage
- Computing and communication system co-designs for edge computing
- Deployment and application placement in edge computing
- Secure and safe computing and communications
- Data privacy preserving computing and communications
- Cooperative aerial edge computing and communication systems
- Resource allocation for vehicular edge computing
- Blockchain-enabled edge computing systems
- Orchestra of edge computing, caching, learning and communications
- Experimental testbed and prototype design and development for edge computing

Submission Guidelines

Authors should follow the *IEEE* guidelines when preparing their contributions (maximum paper length: 5 pages with 10-pt font: https://www.ieee.org/conferences/publishing/templates.html). All accepted papers will appear in ACM Digital Library (https://dl.acm.org/).

Submission website: https://edgecomm21.hotcrp.com

Important Dates

Deadline for Submission: September 15, 2021, 11:59PM EDT

Notifications of Acceptance: October 1, 2021

Camera-ready Paper Submission: October 15, 2021 (firm)

Workshop Date: December 17, 2021

Workshop Organizers

- **Workshop Co-Chairs:**
  - Lingjia Liu, Virginia Tech, USA;
  - Wei Gao, University of Pittsburgh, USA
- **Technical Program Committee Chair:**
  - Cong Shen, University of Virginia, USA
- **Technical Program Committee:**
  - TBD