

11th IEEE International Conference on Fog and Edge Computing (ICFEC 2027)

In conjunction with the 27th IEEE International Symposium on Cluster, Cloud, and Internet Computing (CCGrid 2027)

Dallas-Fort Worth, Texas, USA

24-27 May 2027

Call for Papers

The 11th IEEE International Conference on Fog and Edge Computing (ICFEC 2027) is a premier forum that brings together researchers, practitioners, industry experts, and technologists to discuss and explore the latest developments, trends, and innovations in fog and edge computing. ICFEC 2027 will be held in conjunction with the 27th IEEE International Symposium on Cluster, Cloud, and Internet Computing (CCGrid 2027) in Dallas-Fort Worth, Texas, USA.

As alternatives to traditional cloud computing, new paradigms such as fog computing, edge computing, and the edge-fog-cloud continuum have been proposed and are increasingly being deployed. These approaches aim to bring computational resources closer to data sources, thereby reducing network latency and data traffic at the core of the network. Use cases for fog and edge computing range from smart factories over smart grids to autonomous vehicles, just to name a few examples. New methods and mechanisms are essential for effectively managing software, infrastructure, and network aspects impacted by the adoption of these emerging computing paradigms.

Topics of Interest

ICFEC 2027 takes a broad view of fog and edge computing and aims to publish high-quality research contributions and experience reports related to system designs, end-to-end architectures, enabling technologies, and domain-specific applications within these emerging computing paradigms. Some representative topics of interest include, but are not limited to:

- Hardware architectures and devices for fog and edge computing
- Software architectures, programming models, network protocols, storage and data management platforms, middlewares, and runtime systems for fog computing, edge computing, or the edge-fog-cloud continuum
- Federated learning algorithms, architectures, and protocols in and for the compute continuum
- LLM agents and agentic AI systems across the edge-fog-cloud continuum, including on-device and edge inference, multi-agent coordination, and agent-driven orchestration and resource management
- Resource management, task scheduling, and capacity planning solutions
- Simulation toolkits for fog computing, edge computing, or the compute continuum
- Performance monitoring and metering of infrastructures along the compute continuum
- Security, privacy, trust, and provenance issues and solutions for the compute continuum
- Energy-efficient and environmentally-aware computing in the compute continuum
- Domain-specific applications, such as in smart manufacturing, mobility, healthcare, and agriculture
- Emerging trends such as edge computing in space, quantum computing at the edge, edge digital twins, and sustainable fog/edge computing
- Practical experience in developing, deploying, and evaluating fog/edge computing systems, applications, and services

Submission Instructions

All papers must be original and not simultaneously submitted to another journal or conference.

- Authors should submit papers, written in English, electronically in PDF format, and may not exceed 8 letter-size pages in length, including all figures, tables, and references.
- Apart from regular papers, authors may also submit short papers and extended abstracts for posters.
- All manuscripts will be reviewed and judged on originality, technical strength, significance, presentation, and relevance to the conference by at least three reviewers.

Papers may be submitted online at [EasyChair](#).

Publication

Papers that are accepted for publication may be accepted as REGULAR papers (8 pages), SHORT papers (4 pages), or extended abstracts for POSTER (2 pages), depending on the reviewers' recommendations. Accepted regular, short, and poster papers will be included in the conference proceedings that will be published through the IEEE Computer Society Conference Publishing Services.

Important Dates

Paper Submission Deadline: 20th December 2026

Notification of Acceptance: 20th January 2027

Camera-ready submission: 16th March 2027

Conference dates: 24th – 27th May 2027

Organising Committee

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