Call for papers

[FINAL extension]

FRAME 2026 : 6th Workshop on Flexible Resource and Application Management on the Edge

*Affiliated with the **32nd International European Conference on Parallel and Distributed Computing (Euro-par) 2026** – Pisa, Italy*

Key deadlines:

~~**15 May,**~~ **29 May 2026**	**Submission of regular and short papers**
12 June, 2026	Notification of acceptance
10 July, 2026	Camera-ready paper submission
24-25 August, 2026	Workshop day (to be defined)

Website: https://www.accordion-project.eu/frame2026/

The Cloud Computing paradigm provides large groups of different users with pay-as-you-go computing services and negotiated performance and quality. The approach has progressively extended to include Edge, Fog and Internet of Things devices, pushed by large-scale, geographically distributed and mobile-oriented applications. Different infrastructure work together to fulfill articulated and dynamically challenging user requirements, forming what are called **Continuum platforms**. Within the Continuum, Edge resources act as a first layer of local computing capacity and enable deploying dedicated services on a context-driven, tenancy-driven or time-driven basis to serve certain areas and user groups, but the approach comprises a very heterogeneous set of devices, introducing new challenges in the fields of security, orchestration and resource management.

Realizing these benefits requires sophisticated techno-economic modeling of the cloud-edge Continuum, to evaluate the intricate trade-offs between infrastructure investment, operational expenditures, and the delivered value across heterogeneous administrative domains. From a technological perspective, closing the proximity gap toward end-users and IoT devices enables many interactive and time-sensitive services, but requires complex platform modeling and dynamic steering. Robustness is also a key objective, as security and privacy issues and constraints multiply in Continuum platforms and secure federated learning is sought. Latency reduction makes real-time data-driven decisions more viable, allowing collaborative and interactive systems to perform live data processing as well as locality-constrained tasks. Data collection can happen within geographically/administratively bounded areas, ensuring compliance with data privacy and data retention policies.

Recent years have seen further expansion of such a pervasive computing approach toward high-performance systems, more remote, and more specialized devices and techniques. The vanishing boundaries between Cloud and HPC resources' capabilities ushered in the Hybrid HPC-Cloud approach. Machine learning and AI techniques are more and more present in the Continuum, both as application machinery that needs a computing layer and as a powerful tool to help platform management and usage optimization. The surge of services

based on satellite fleets has made space-based data gathering and processing highly relevant, and new synergies with Quantum-based devices and techniques are also seen as a useful resource for Continuum platforms. All such extended Continuum definitions boost the issues of orchestration and management to new levels of complexity and importance.

The 6th International Workshop on Flexible Resource and Application Management on the Edge (FRAME 2026) aims at bringing together cloud and edge computing experts from academia and industry to identify new challenges, discuss novel systems, methods and approaches for the management of resources in cloud-edge infrastructures, as well as to promote this vision toward academia and industry stakeholders. This edition is co-located with Euro-par 2026 in Pisa (Italy).

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Topics of interest

Topics of interest for the workshop include but are not limited to the following ones:

1. Monitoring, analysis and forecast of Resources and Applications at the Edge, including distributed/federated and learning-based approaches.
2. Efficient, sustainable orchestration and Resources management for the Cloud/Edge continuum, including techno-economic analysis and cost-benefit modeling for continuum resources
3. Fault detection and prevention in the Cloud/Edge continuum
4. Adaptive and autonomous management of Applications in the Cloud/Edge continuum
5. Application Models for the Cloud/Edge continuum
6. ML/AI techniques and algorithms for Cloud/Edge orchestration
7. Lightweight tools and techniques for Edge devices, including virtualization, AI inference, and Small language models
8. Neural Network architectures for edge computing such as TinyML and compressed neural networks.
9. Adaptive and efficient inference techniques for foundation models and large-scale AI models in the Cloud/Edge Continuum
10. Digital twins for Cloud, Edge and Continuum platforms
11. Novel Computing and Data Architectures for the Cloud/Edge Continuum and Federations
12. QoE/QoS modeling and assessment for the Cloud/Edge continuum
13. Distributed infrastructures, architectures, network protocols for ultra low latency and 6G systems.
14. Edge support for 6G systems: real-time requirements, sustainability, integration of AI agents and prompt engineering
15. Next-gen applications in the Continuum
16. Workflows on highly heterogeneous and distributed platforms
17. Cybersecurity, privacy, rights and sensitive/strategic data management in the Cloud/Edge Continuum
18. Infrastructure as Code and automation in the Cloud/Edge Continuum
19. All integrations of HPC, Quantum, Cloud, and Continuum platforms, including Hybrid Cloud-HPC-Quantum and Space-based Computing
20. Federated learning, adversarial robustness and secure Federated Learning in the Cloud/Edge Continuum

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Submissions and attendance

Submitted papers must present original work that has not been previously published and is not under consideration for publication elsewhere. All submissions will undergo a thorough peer-review process coordinated by the workshop organizers. Each paper will receive at least three independent reviews from members of the Program Committee, and acceptance decisions will be based on the reviewers' evaluations. Submissions must follow the **Springer LNCS formatting guidelines**. The workshop invites two types of submissions:

- **Regular papers** - at least 10 and up to 12 pages. Regular papers should present mature and original research results supported by solid experimental or theoretical evaluation. Accepted regular papers will be presented at the workshop and **published in the Euro-Par 2026 Workshop Proceedings volume in Springer LNCS**.

- **Short Papers** - at least 4 pages but less than 10. Short papers may describe preliminary work, new ideas, emerging research directions, or position statements intended to stimulate discussion during the workshop. Short papers will be presented at the workshop but will not be included in the official proceedings.

Paper submission and reviewing will be managed through the EasyChair submission system set up for all Euro-par side events, where the FRAME workshop operates as an independent track:

https://easychair.org/conferences/?conf=europar2026workshops

Authors are encouraged to submit an abstract one week before the deadline. Further details on submission instructions and updates will be available on the workshop website.

Publication

Short papers will be presented at the workshop but are **not** eligible for publication in the proceedings. Accepted **regular** papers (10–12 pages) will be published after the conference in the **Euro-Par 2026 Workshop Proceedings volume of Springer Lecture Notes in Computer Science (LNCS)**. Authors of accepted papers will be required to sign the Springer copyright form.

Please note that to appear in the proceedings volume, papers have to meet the following conditions:

- at least one author registers for the workshop
- the final camera-ready version and source files are submitted by the camera-ready deadline and comply with format and page number constraints
- the work is presented in person at the workshop

A journal special issue is being arranged where papers presented at the workshop will be

invited to submit a revised and extended version. Further details will be provided via the FRAME web site.

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Organizers:

* **Massimo Coppola**, ISTI-CNR, massimo.coppolaATisti.cnr.it, General Chair
* **Hanna Kavalionak**, ISTI-CNR, hanna.kavalionakATisti.cnr.it, Program Co-Chair
* **Songhee Kang**, TU Korea, dellabeeATtukorea.ac.kr, Program Co-Chair
* **David Pacios**, FDI-UCM, dpaciosATucm.es, Program Co-Chair

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Preliminary list of program committee members:

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- Lorenzo Blasi, HPE
- Emanuele Carlini, ISTI-CNR
- Patrizio Dazzi, University of Pisa
- Karim Djemame, University of Leeds
- Mark Dokter, Know-Center Research GmbH
- Luca Ferrucci, University of Pisa
- Stefano Forti, University of Pisa
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