

1st July - FRAME 2022 Program

(All times shown below are in CT)

<p>Session 1 Introduction and Opening Session Starting time 09:00 – Ending time 10:30</p>	<p>Welcome presentation (20 min)</p> <p>Keynote: Streaming 3D content (45 min) <i>Speaker: Federico Ponchio (ISTI-CNR, National Research Council, Italy)</i></p> <p>WebAssembly as a Common Layer for the Cloud-edge Continuum (20 Talk + 5 Q&A) <i>Jämes Ménétrey (University of Neuchâtel, Switzerland), Marcelo Pasin (University of Neuchâtel, Switzerland), Pascal Felber (University of Neuchâtel, Switzerland), Valerio Schiavoni (University of Neuchâtel, Switzerland)</i></p>
<p>Session 2 Architecture and models for Edge Federations Starting time 11:00 – Ending time 12:15</p>	<p>Towards a Distributed Storage Framework for Edge Computing Infrastructures (20 Talk + 5 Q&A) <i>Antonios Makris (Harokopio University of Athens), Evangelos Psomakelis (Harokopio University of Athens), Theodoros Theodoropoulos (Harokopio University of Athens), Konstantinos Tserpes (Harokopio University of Athens)</i></p> <p>A Minicloud Specification Enabling the Federation of Heterogeneous Edge Resources for Latency Sensitive Applications' Requirements (20 Talk + 5 Q&A) <i>Lorenzo Blasi (Hewlett Packard Enterprise), Andrea Toro (Hewlett Packard Enterprise), Marco Di Girolamo (Hewlett Packard Enterprise), Konstantinos Tserpes (Harokopio University)</i></p> <p>An Automated Pipeline for Advanced Fault Tolerance in Edge Computing Infrastructures (20 Talk + 5 Q&A) <i>Theodoros Theodoropoulos (Harokopio University of Athens), Antonios Makris (Harokopio University of Athens), John Violos (Harokopio University of Athens), Konstantinos Tserpes (Harokopio University)</i></p>
<p>Session 3 Orchestration of applications and data-processing at the Edge Starting time 13:15 – Ending time 16:10</p>	<p>Network Measurements with Function-as-a-Service for Distributed Low-latency Edge Applications (20 Talk + 5 Q&A) <i>Emanuele Carlini (National Research Council of Italy (ISTI-CNR)), Hanna Kavalionak (National Research Council of Italy (ISTI-CNR)), Patrizio Dazzi (Institute of Information Science and Technologies (ISTI-CNR) & University of Pisa), Luca Ferrucci (National Research Council of Italy (ISTI-CNR)), Massimo Coppola (National Research Council of Italy (ISTI-CNR)), Matteo Mordacchini - (National Research Council of Italy (IIT-CNR))</i></p>

Break 15 min

A Mathematical Model for Latency Constrained Self-Organizing Application Placement in the Edge (20 Talk + 5 Q&A)

Matteo Mordacchini (National Research Council of Italy (IIT-CNR)), Emanuele Carlini (National Research Council of Italy (ISTI-CNR)), Patrizio Dazzi (Institute of Information Science and Technologies (ISTI-CNR) & University of Pisa)

A Novel Approach to Distributed Model Aggregation using Apache Kafka (20 Talk + 5 Q&A)

Saira Bano (Institute of Information Science and Technologies (ISTI-CNR) & University of Pisa), Emanuele Carlini (National Research Council of Italy (ISTI-CNR)), Pietro Cassarà (Institute of Information Science and Technologies (ISTI-CNR) & National Inter-University Consortium for Telecommunications), Massimo Coppola (National Research Council of Italy (ISTI-CNR)), Patrizio Dazzi (Institute of Information Science and Technologies (ISTI-CNR) & University of Pisa), Alberto Gotta (Institute of Information Science and Technologies (ISTI-CNR) & National Inter-University Consortium for Telecommunications)

CoTree: Region-free and Decentralized Edge Server Cooperation (20 Talk + 5 Q&A)

Ning Li (Harbin Institute of Technology), Xin Yuan (Harbin Institute of Technology), Zhaoxin Zhang (Harbin Institute of Technology)

Panel Discussion (60 min)

General chair: Massimo Coppola (National Research Council of Italy (ISTI-CNR))

Closing