

June 4 - FRAME 2024 Program

(All times shown below are in CEST (GMT+2))

Session 0: Introduction and Opening Session
09:00 – 10:00

Welcome presentation (15 min)

Keynote: (45 min)

Speaker:

(Will be updated later)

Session 1: Future Directions for Edge Computing
10:00 – 10:25

Urgent Edge Computing (20 Talk + 5 Q&A)

Patrizio Dazzi (University of Pisa), Luca Ferrucci (Università di Pisa), Marco Danelutto (University of Pisa), Konstantinos Tserpes (Harokopio University of Athens), Antonios Makris (Harokopio University of Athens), Theodoros Theodoropoulos (Harokopio University of Athens), Jacopo Massa (National Research Council of Italy, Pisa), Emanuele Carlini (National Research Council of Italy, Pisa), Matteo Mordacchini (National Research Council of Italy, Pisa)

Coffee break
10:30 – 11:00

Session 2: Advances in Sustainable and Efficient Edge Computing
11:00 – 13:00

Towards Sustainable Deployment of Microservices over the Cloud-IoT Continuum, with FREEDA (15 Talk + 5 Q&A)

Jacopo Soldani (Università di Pisa), Roberto Amadini (Università di Bologna), Antonio Brogi (Università di Pisa), Stefano Forti (Università di Pisa), Saverio Giallorenzo (Università di Bologna), Pierluigi Plebani (Politecnico di Milano), Monica Vitali (Politecnico di Milano), Gianluigi Zavattaro (Università di Bologna)

Optimizing Resource Allocation in the Edge: A Minimum Weighted Vertex Cover Approach (20 Talk + 5 Q&A)

Antonios Makris (Harokopio University of Athens), Emmanouil Maragkoudakis (Harokopio University of Athens), Ioannis Kontopoulos (Harokopio University of Athens), Theodoros Theodoropoulos (Harokopio University of Athens), Ioannis Korontanis (Harokopio University of Athens), Emanuele Carlini (National Research Council of Italy)

Italy, Pisa), Matteo Mordacchini (National Research Council of Italy, Pisa), Patrizio Dazzi (University of Pisa, Italy), Theodora Varvarigou (Harokopio University of Athens)

Towards Energy-Aware Execution and Offloading of Serverless Functions (20 Talk + 5 Q&A)

Cecilia Calavaro (Tor Vergata University of Rome), Gabriele Russo Russo (Tor Vergata University of Rome), Martina Salvati (Tor Vergata University of Rome), Valeria Cardellini (Tor Vergata University of Rome), Francesco Lo Presti (Tor Vergata University of Rome)

Striking Trade-off Between High Performance and Energy Efficiency in an Edge Computing Application for Detecting Floating Plastic Debris (20 Talk + 5 Q&A)

Marco Lapegna (University of Naples Federico II), Giuliano Laccetti (University of Naples Federico II), Raffaele Montella (University of Naples Parthenope), Diego Romano (Italian National Research Council)

Encoding Consistency: Optimizing Self-Driving Reliability With Real-Time Speed Data (15 Talk + 5 Q&A)

William Fowler (Tufts University), Alicia Esquivel Morel (University of Missouri-Columbia), Kate Keahey (Argonne National Laboratory)

**Lunch break
13:00 – 14:00**

Session 3: Panel: Industrial Exploitation of Continuum Platforms - experience and outcomes of the CHARITY project for XR-AR enabling of the Continuum

14:00 – 16:00

Will be updated

**Coffee break
16:00 – 16:30**

Session 4: Advancements in Smart Infrastructures

16:30 – 17:35

OUTFIT: Crowdsourced Data Feeding Noise Maps in Digital Twins (20 Talk + 5 Q&A)

Elena Ascari (Institute for Chemical-Physical Processes, CNR), Mauro Cerchiaro (Institute for Chemical-Physical Processes, CNR), Pasquale Gorrasi (Institute for Chemical-Physical Processes, CNR), Antonella Longo (University of Salento), Gabriele Mencagli (University of Pisa), Francesca Miccoli (University of Salento), Marco Zappatore (University of Salento)

Towards enabling observability of energy demand (10 Talk + 5 Q&A)

Alessandro Bocci (University of Pisa), Antonio Brogi (University of Pisa), Gianpaolo Cugola (Politecnico di Milano), Stefano Forti (University of Pisa), Luca Mottola (Politecnico di Milano), Virginia Pilloni (University of Cagliari), Sabrina Romano (ENEA Italian National Agency for New Technologies), Jacopo Soldani (University of Pisa), Elio Usai (University of Cagliari)

Reactive Autoscaling of Kubernetes Nodes (20 Talk + 5 Q&A)

Tarek Menouer (CGI France), Christophe Cérin (University Sorbonne Paris Nord), Patrice Darmon (CGI France)

Closing