



Machine Learning for Autonomic System Operation in the Heterogeneous Edge-Cloud Continuum

The vision of the MLSysOps project is to enable autonomic, efficient, and adaptive end-to-end system management and application orchestration on the heterogeneous and dynamic edge-cloud continuum by using ML/AI models.

OBJECTIVES

Deliver an open AI-ready, agent-based framework for holistic, A Support green, resource-efficient, and trustworthy system trustworthy, scalable, and adaptive system operation across the heterogeneous cloud-edge continuum.

Call: HORIZON-CL4-2022-DATA-01

Total Project Costs: € 5,711,250.00

<lalis@uth.gr>

Grant Agreement: 101092912

Type of Action: RIA

Duration: 36 months Start Date: 01 Jan 2023 Funding Agency: HADEA

Contact: Prof. Spyros Lalis

Coordinator)

University of Thessaly (Project

Develop an AI architecture supporting explainable, efficiently retrainable ML models for end-to-end autonomic system operation in the cloud-edge continuum.

Support cross-layer orchestration including resource constrained edge devices through innovative, portable, container-based technology.

ments.

operation, while satisfying application QoS/QoE require-

Enable efficient, flexible, transparent tier-less storage and 6 Realistic model training, validation, and evaluation. isolated application execution across the heterogeneous contin-



Use Cases



SMART AGRICULTURE







This project has received funding from the European Community's Horizon Europe Programme under the Grant Agreement #101092912.

