Semantic Low-code Programming Tools for Edge Intelligence

Risultati

Informazioni relative al progetto

SMARTEDGE

ID dell’accordo di sovvenzione: 101092908

Finanziato da
Digital, Industry and Space

DOI
10.3030/101092908

Costo totale
€ 7 353 640,00

Contributo UE
€ 7 353 640,00

Data della firma CE
23 Novembre 2022

Coordinato da
CONSORZIO NAZIONALE INTERUNIVERSITARIO PER LE TELECOMUNICAZIONI

Data di avvio
1 Gennaio 2023

Data di completamento
31 Dicembre 2025

Italy

Risultati finali

Documents, reports (5)

Design of tools for continuous semantic integration

Design of tools for continuous semantic integration [SAG, M11, Type: R, PU]. This deliverable will detail the first design of the SMARTEDGE components for continuous semantic integration.

Final definition of requirements, architecture, and demo plans
Final definition of requirements, architecture, and demo execution plan [IMC, M12, Type: R, PU]. This deliverable will include the revised and final version of (i) SMARTEDGE technical requirements and system functional specifications; (ii) SMARTEDGE architecture; and (iii) the final demo execution plan.

**Design of low-code programming tools for edge intelligence**
Design of Low-code Programming Tools for Edge Intelligence [TUB, M13, Type: R, PU]. This deliverable will detail the final design of WP5 solutions including semantic-driven multimodal stream fusion, swarm elasticity, adaptive coordination, and crosslayer toolchain for device-edge-cloud continuum

**Year 1 comm., dissemination, and standardisation plan**
Year 1 communication, dissemination, and standardisation plan [W3C, M12, Type: R, PU]. Plan and report of the activities carried-out during Year 1. This includes creation of the project website; developing strategy plans for initial dissemination, expl., and comm., identification of which SDOs to target.

**Design of dynamic and secure swarm networking**
Design of dynamic and secure swarm networking [UOXF, M12, Type: R, PU]. This deliverable will detail the final design of the WP4 solutions including discovery, swarm formation, security, and in-network operations

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**Pubblicazioni**

**Conference proceedings (2)**

**Building a P2P RDF Store for Edge Devices**
**Autori:** Guo, Xuanchi; Le-Tuan, Anh; Le-Phuoc, Danh  
**Pubblicato in:** 2023  
**Editore:** TBU  
**DOI:** 10.48550/arxiv.2309.09364

**Semantic Programming for Device-Edge-Cloud Continuum**
**Autori:** Le-Tuan, Anh; Bowden, David; Le-Phuoc, Danh  
**Pubblicato in:** Crossref, 2023, ISSN 2643-3303  
**Editore:** IEEE  
**DOI:** 10.48550/arxiv.2308.10555