Harokopio University of Athens (HUA)

Intelligent Computer Systems and Applications (ICSA) Lab

A few words about us

- Harokopio University of Athens (HUA) is a public university in Athens, Greece
- School of Digital Technology
  - Aims at advancing sciences related to information acquisition, enrichment and processing, and related services and applications
  - The department of Informatics and Telematics offers B.Sc. Degrees and postgraduate programmes that result in Master and PhD degrees
- 20 faculty members, >10 Post doctoral researchers, >50 PhD candidates, several technical laboratory staff members
- Institute of Computer Systems and Applications (ICSA)
  - More than 15 members (5 Professors, Post-Doc, PhD, MSc students)
  - Participation in more than 15 R&D funded projects
  - Publications in top journals and conferences
  - Experience in Project Coordination of Horizon Europe programs
  - Extensive experience in proposals writing

Learn about us: www.icsa.hua.gr

Intelligent Computer Systems and Applications - Main expertise

☐ Network architectures and technologies:

- Intelligent transport systems' standards and protocols
- Vehicular communications (V2X) & Unmanned Aerial Systems
- High-speed wireless access networks & mobile communications (5G, 6G)
- Software-Defined Networking (SDN), Networks Functions Virtualization (NFV), Management & Orchestration (MANO)
- Quality of Service and Experience management in mobile networks

☐ Services and applications:

- Highly automated driving functions, perception and control
- AI-enabled optimization (non-causal reasoning, ML, RL, FL, etc.)
- Optimization and performance evaluation of wireless systems
- Electronic healthcare systems and applications
- Technology acceptance modeling

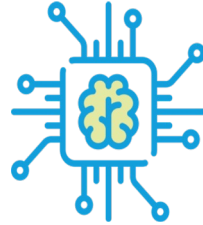# Intelligent Computer Systems and Applications Lab – Ongoing projects EU

EECONE
European Ecosystem for green Electronics
partially funded by the HORIZON-KDT-JU-2022-2-RIA-Topic-2
01.07.2023-30.06.2026

EcoMobility
Intelligent, Safe and secure connected Electrical Mobility solutions: Towards European Green Deal and Seamless Mobility
partially funded by HORIZON-KDT-JU-2022-2-RIA-Topic-1
01.05.2023-31.04.2026

Edge AI Technologies for Optimized Performance Embedded Processing),
partially funded by the EU, HORIZON-KDT-JU-2021-2-RIA-Focus-Topic-1,
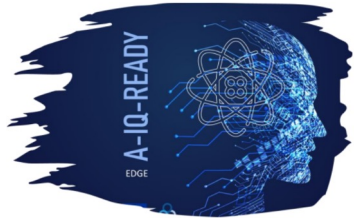*01.12.2022 – 31.12.2025*

HiCONNECTS
Heterogenous Integration for Connectivity and Sustainability)
partially funded by the EU, HORIZON-KDT-JU-2021-1-IA
01.01.2023 – 31.12.2025

BIO-STREAMS
Multi-Pillar Framework for children Anti-Obesity Behaviour building on an EU Biobank, Micro-Moments and Mobile Recommendation
partially funded by the EU, HORIZON-HLTH-2022-STAYHLTH-01-05-two-stage
01.05.2023-30.04.2026

A-IQ-READY
Artificial Intelligence using Quantum measured Information for realtime distributed systems at the edge
partially funded by the EU, HORIZON-KDT-JU-2021-2- RIA
01.01.2023 – 31.12.2025

ARCHIMEDES
Trusted lifetime in operation for a circular economy
Partially funded by the HORIZON-KDT-JU-2022-2-RIA-Topic-1
01/05/2023 -30/04/2026

PowerizeD
Digitalization by Intelligence for Power Electronic within Value Chains)
Partially funded by the EU, HORIZON-KDT-JU-2021-IA
01.01.2023 – 31.12.2025

AIMS 5.0
Artificial Intelligence in Manufacturing leading to Sustainability and Industry5.0
Partially funded by the HORIZON-KDT-JU-2022-2-RIA-Topic-1
01/05/2023 -30/04/2026

SMART SUSTAINABLE CITIES
Smart and Sustainable Cities (SC2), Establishment of a Cross-Domain Research Group for Conducting Research and Development Activities in the Dubai area
partially funded by the Dubai government
Will start soon.

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Thank you!