

DECICE

Device-Edge-Cloud Intelligent Collaboration Framework

DECICE aims to develop an AI-based, open and portable cloud management framework for automatic and adaptive optimization and deployment of applications in a federated infrastructure, including computing from the very large (e.g., HPC systems) to the very small (e.g., IoT sensors connected on the edge).

EDGE | CLOUD | HPC | IoT | HETEROGENOUS SYSTEMS | AI-SCHEDULING | MACHINE LEARNING
DATA CENTERS | SYSTEM MONITORING | DIGITAL TWIN | KUBERNETES



BACKGROUND

Growth and higher complexity of cloud computing industry



CHALLENGE

Ultra-low latency, security and close location (e.g. in Smart Cities)



SOLUTION

AI-Scheduler: using the available resources of a digital twin



DECICE OBJECTIVES



LEVERAGE A COMPUTE CONTINUUM ranging from Cloud and HPC to Edge and IoT.



AI-SCHEDULER supporting dynamic load balancing for energy efficient compute orchestration, improved use of Green Energy, and automated deployment.



API that increases control over network, computing and data resources.



DYNAMIC DIGITAL TWIN of the system with AI-based prediction capabilities.



REAL-LIFE USE CASES of DECICE framework (usability and benefits).



SERVICE DEPLOYMENT with a high level of trustworthiness and compliance with relevant security frameworks.

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Programme

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HORIZON-CL4-2022-DATA-01-02
Research & Innovation Action

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