Service ID S00123

Location At user's premises, Italy, Rei

Assessment of AI performance and software optimisation on edge compu

Provider service

Fondazione Bruno Kessler (FBK)

Link to content

https://agrifoodtef.eu/services/assessment-ai-performance-and-software-optimisation-edge-computing-devices

Type of Sector

Arable farming, Food processing, Greenhouse, Horticulture, Livestock farming, Tree Crops, Viticulture

Accepted type of products

Design / Documentation, Software or AI model

Type of service

Collection of test data, Performance evaluation, Test design, Test execution, Test setup

Description

The tests in this service are aimed at products that run complex apps (based on a multitude of microservices, including heavy AI algorithms) in the fields, with limited to no connectivity to the cloud. In these cases, we propose a benchmarking designed to understand what the bottlenecks are in the implemented solution architecture to help TEF customers improve the efficiency and reliability of such products/solutions. The service may also encompass virtual facility elements (enriched datasets, virtual machines hosting containerised modules) blended with physical sensors and infrastructure in our test field or directly installed at the client's premises if need be for the duration of the experimentation.

How can the service help you

After using this service, the customer can identify where there might be bottlenecks (related to computational power, storage, and bandwidth) in the proposed solution and gather important feedback to address any identified issues.

How the service will be delivered

Customisation for this service is possible given the wide spectrum of algorithms that can be used for many different purposes. For these reasons customisation is a requirement that is addressed through a related desk assessment that helps better understand how the solution is working, offered in a related NewService1 (XXX)

Service customisation

The customer provides access to the solution hardware and source code (under NDA) and access to fields, if needed. The service provider will test on its premises and produce a detailed test report with suggestions for improvement in efficiency and reliability based on test field data analysis.The service execution lasts approximately 16 weeks, adjustable as needed.