

MAS4AI

Multi-Agent Systems for Pervasive Artificial Intelligence for assisting Humans in Modular Production

Description

MAS4AI aims at developing a **distributed and interoperable AI multi-agent system** & guidelines for the realization of autonomous modular production and human assistance.

Objectives

Development of a **Multi-Agent-System** for distributing AI components in different hierarchy layers, including the following:

- AI agents using **knowledge-based representation**
- AI Agents for **hierarchical planning** of production processes
- Model-based **Machine Learning** (ML) AI agents

Benefits of the solutions

- **Unified distributed multi-agent system** for safe and highly reactive AI solutions
- **Integration** of **low threshold AI** software applications from diverse AI developers

Leading to:

- ✓ **The lead time** of representative parts is expected to be **reduced by 20%**
- ✓ **Reduction** of production **costs**
- ✓ **Reduce the time** needed for **operations by at least 15%**.

Clustering activities

➤ ICT-38

AI-MAN is the cluster of projects funded under the ICT-38-2020 Call with a focus on integrating state-of-the-art AI technologies in the manufacturing domain.

The cluster will support knowledge sharing, networking, joint dissemination & communication, and promotion of each project's activities and results. The other projects in the **AI-MAN** cluster are:

✓ AI-PROFICIENT	✓ knowEdge
✓ ASSISTANT	✓ STAR
✓ COALA	✓ TEAMING.AI
✓ EU-Japan.AI	✓ XMANAI

➤ ICT-48

Four **European networks of AI excellence centres** are working on aspects of trustworthy AI funded under the H2020-ICT-48-2020 Call. Synergy is pursued with existing initiatives and networks, such as:

- the Confederation of Laboratories for AI Research in Europe (CLAIRE)
- the network of digital innovation hubs in AI,
- the European Laboratory for Learning and Intelligent Systems (ELLIS)
- the European AI Association
- related public-private partnerships (BDVA and euRobotics)

Contact us



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MAS4AI H2020 Project

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