CAPP_AI4.0

Machining process planning and preparation has a key role in machining, as an important part of industrial production. Process planning ensures that the machining process results in accurate, quality and productive manufacturing. So far, decisions made during planning were made mainly based on experience of skilled professionals. Now, new AI systems can contribute and support process planning to shorten the time needed and get as close to optimal results as possible. This activity aims at increasing awareness, skills and application of these AI support systems that can assist trained employees with their machining process planning and preparation tasks. This activity will result in courses and workshops (as well as learning materials) that will train employees to use these systems and therefore increase the capability, productivity and effectiveness of the SMEs.

Project Duration: JAN 2023- DEC 2024 (2 YEARS)

Keywords: Artificial intelligence, intelligent systems, multi agent systems, Machine learning, statistical data processing and applications using signal processing, Mechanical and manufacturing engineering (shaping, mounting, joining, separation), Numerical analysis, simulation, optimisation, modelling tools.

Partners involved:
Czech Technical University in Prague
Mondragon University
Politecnico di Milano
RF Celada
TU Darmstadt
MADE
WatAJet s.r.l.

Project Budget: 798.821,00 EUROS

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