

Flexible Assembly Systems through Workplace-Sharing and Time-Sharing Human-Machine Cooperation (PISA)

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Abstract

PISA is a European Integrated Project (IP) in the research area “next generation of flexible assembly technology and processes”. The general aim of the project is to develop intelligent assist systems (IAS) in order to support the human worker instead of replacing him. Thus, flexibility should not be reached through fully automated assembly systems but should instead support the better integration of human workers. This paper gives a report on the project, launched in September 2006.

Keywords

Human-machine cooperation, human-centered automation, reusability, reconfigurability, assembly systems, cooperating robots.