

Technology matured by

TRBOTS



MIDDLEWARE FOR COMMUNICATION AND INTEROPERABILITY OF
HETEROGENEOUS ROBOTS

ROBOTICS

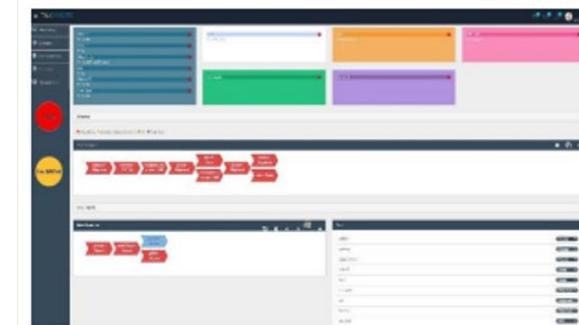
INTEROPERABILITY

MIDDLEWARE

TalkRoBots is a middleware solution that overcomes this interoperability issue. It enables heterogeneous robots using both open and proprietary systems (ROS, ABB, etc.) to communicate and share information transparently. The technology also allows robots and environmental sensors to communicate with each other. TalkRoBots includes a cloud server that enables operators to dynamically plan manufacturing scenarios, monitor their status, access sensor data, and reconfigure the scenario.

Benefits:

- Advanced communication capabilities; interoperability between heterogeneous robots using different systems (for example, an AGV can communicate equally with another AGV or with an industrial manipulator robot).
- Easy planning and implementation of dynamic scenarios; ubiquitous and easy integration of external IoT sensors or robots.
- Distributed communication without a centralized server; no changes to the language used by the robotics programmer; secure message exchange.
- Cost-effective and easy integration into existing systems; built-in AI to assist the operator in decision-making in the event of a breakdown.



Partnership: Co-development; Licensing agreement

IP: Patent (<5 years)

TRL: 6