



Middleware for Communication and Interoperability of Heterogeneous Robots and Smart Connected Devices

Technology

A Middleware allowing an easy integration of heterogeneous systems within cooperative fleets, by assigning each element simple tasks allowing to achieve complex objectives ... A smart system, resilient to failures, able to react to unforeseen events in a completely autonomous manner by finding appropriate solutions

By creating a common communication tunnel between all robots, controllers and smart devices, TalkRobots is able to deal with unexpected situations and proposes an alternative solution: it is a totally smart resilient system!



Keywords

- Interoperability
- Resilience to Failures
- Artificial Intelligence
- Distributed & Secure Communications



Intellectual Property

Patented technology
PCT/FR2019/050328
Copyrighted Source Code (APP)



Development Status

Prototype : communication and interoperability between different robots (UR, Sawyer, ABB ...), drone (Parrot ...) and smart devices (temperature, RFID and pressure sensors)



Partnership

Licensing and/or partnership



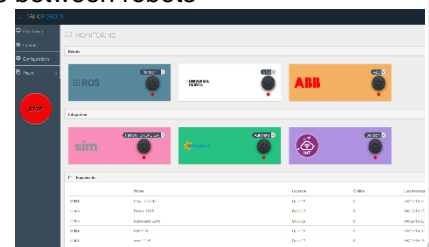
Video Youtube :
SATT NORD
TalkRobots
<https://www.youtube.com/watch?v=IneJ5o0sODY>



Benefits

Talkrobots allows

- Interoperability between Heterogeneous Systems
- Simple and flexible scenario generation and implementation of robotic applications using an intuitive Web interface,
- Easy integration of new robots, sensors and connected objects
- Distributed communications and interactions between robots
- Secure message exchanges
- Resilience to Failures using artificial intelligence
- Easy and inexpensive integration with existing systems



Applications

- Logistic
- Smart Agriculture
- Industrial Cleaning
- Production and Assembly Lines
- And basically, any application related to the industry of the future, which uses a fleet of heterogeneous robots and smart devices

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