Innovative aerial service robots for remote inspections by contact

Fact Sheet

Project Information

Funded under
Specific Programme "Cooperation": Information and communication technologies

AIRobots
Grant agreement ID: 248669

Closed project

Start date
1 February 2010

End date
31 January 2013

Total cost
€ 3 614 142,00

EU contribution
€ 2 616 000,00

Coordinated by
ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA

Italy

Project description

Cognitive Systems and Robotics
Innovative aerial platform for physically interacting with the human world
The goal of the AIRobots project is to develop a new generation of aerial service robots capable to support human beings in all those activities which require the ability to interact actively and safely with environments not constrained on ground but, indeed, freely in air. The step forward with respect to the “classical” field of aerial robotics is to realize aerial vehicles able to accomplish a large variety of applications, such as inspection of buildings and large infrastructures, sample picking, aerial remote manipulation, and so forth. The aerial platform will be
remotely supervised by the operator with the use of haptic devices and will be like a flying hand for the human, thanks to force and visual feedback strategies.

Fields of science

engineering and technology  >  electrical engineering, electronic engineering, information engineering  >  electronic engineering  >  sensors

engineering and technology  >  electrical engineering, electronic engineering, information engineering  >  electronic engineering  >  robotics

Programme(s)

FP7-ICT - Specific Programme "Cooperation": Information and communication technologies

Topic(s)

ICT-2009.2.1 - Cognitive Systems and Robotics

Call for proposal

FP7-ICT-2009-4

See other projects for this call

Funding Scheme

CP - Collaborative project (generic)

Coordinator Contact

ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA
Participants (5)

WAYGATE TECHNOLOGIES ROBOTICS AG

Address
Technoparkstrasse 1
8005 Zurich

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH

Address
Technoparkstrasse 1
8005 Zurich

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
EU contribution
€ 614 520,00

Address
Raemistrasse 101
8092 Zuerich

Region
Schweiz/Suisse/Svizzera > Zürich > Zürich

Administrative Contact
Roland Siegwart (Prof.)

Links
Contact the organisation Website

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UNIVERSITA DEGLI STUDI DI NAPOLI FEDERICO II

Italy
EU contribution
€ 458 072,00

Address
Corso umberto i, 40
80138 Napoli

Region
Sud > Campania > Napoli

Activity type
Higher or Secondary Education Establishments

Administrative Contact
Cinzia Cannizzaro (Ms.)

Links
Contact the organisation Website

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UNIVERSITEIT TWENTE

Netherlands
EU contribution
€ 610 155,00
UNIVERSITA DEGLI STUDI DI SALERNO

Italy

€ 72 000,00

Address
Via giovanni paolo ii 132
84084 Fisciano sa

Region
Sud > Campania > Salerno

Administrative Contact
Carmen Caterina (Ms.)

Links
Contact the organisation Website

Last update: 16 July 2019

Permalink: https://cordis.europa.eu/project/id/248669

European Union, 2023