Natural human-robot cooperation in dynamic environments

Fact Sheet

Project Information

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

Total cost
€ 8,578,321,00

EU contribution
€ 6,610,986,00

Coordinated by
DEUTSCHES FORSCHUNGSZENTRUM FÜR KUNSTLICHE INTELLIGENZ GMBH
Germany

Start date
1 January 2010

End date
31 December 2013

Closed project

Project description

Cognitive Systems and Robotics

Working together to assess real-life urban disaster sites

NIFTi investigates how natural behavior in human-robot cooperation can arise. The project operationalizes natural cooperation as balancing operational and cooperation demands in a cognitive architecture (CA), to minimize human cognitive task load and optimize joint work flow. The CA combines projections with cognitive user models and plans to predict why changes in human behavior (due to attention, task load) may occur. The CA uses these predictions to anticipate how
it should adapt acting and communication to align with the human. NIFTi focuses on cooperation in the USAR (urban search and rescue) domain, to restrict what actions, forms of communication and user aspects need to be taken into account.

Fields of science

natural sciences > computer and information sciences > artificial intelligence > machine learning > reinforcement learning

social sciences > psychology > ergonomics

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

Coordinator

DEUTSCHES FORSCHUNGSZENTRUM FUR KUNSTLICHE INTELLIGENZ GMBH
Participants (8)

EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH
Switzerland
EU contribution
€ 984 100,00
Address
Raemistrasse 101
8092 Zuerich
Region
Schweiz/Suisse/Svizzera > Zürich
Administrative Contact
Roland Siegwart (Prof.)
Links
Contact the organisation Website

BLUEBOTICS SA
Switzerland
EU contribution
€ 539 000,00
Address
Parc scientifique de l epfl
1015 Lausanne
Region
Schweiz/Suisse/Svizzera > Région lémanique > Vaud
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Administrative Contact
Nicola Tomatis (Dr.)
Links
Contact the organisation Website

Czechia
EU contribution
€ 702 560,00
Address
Jugoslavskych partyzanu 1580/3
160 00 Praha
Region
Česko > Praha > Hlavní město Praha
Activity type
Higher or Secondary Education Establishments
Administrative Contact
Igor Mraz (Mr.)
Links
Contact the organisation Website
STADT DORTMUND
Germany
€ 99 248,00
Address
Friedensplatz 1
44122 Dortmund
Region
Nordrhein-Westfalen > Arnsberg > Dortmund, Kreisfreie Stadt
Administrative Contact
Andrew Kunter (Mr.)
Links
Contact the organisation  Website

FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV
Germany
€ 1 012 280,00
Address
Hansastrasse 27c
80686 München
Region
Bayern > Oberbayern > München, Kreisfreie Stadt
Administrative Contact
Elke Rupp (Ms.)
Links
Contact the organisation  Website

MINISTERO DELL'INTERNO
Italy
EU contribution
€ 66 960,00

Address
Piazza del viminale 1
00184 Rome

Region
Centro (IT) > Lazio > Roma

Administrative Contact
Marco Frezza (Mr.)

Links
Contact the organisation Website

---

UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA

Italy

EU contribution
€ 729 424,00

Address
Piazzale aldo moro 5
00185 Roma

Region
Centro (IT) > Lazio > Roma

Administrative Contact
Luigia Carlucci Aiello (Prof.)

Links
Contact the organisation Website

---

NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO

Netherlands

EU contribution
€ 968 092,00

Address
Activity type
Research Organisations

Administrative Contact
Ger Luijten (Mr)

Links
Contact the organisation  Website

Last update: 1 August 2019

Permalink: https://cordis.europa.eu/project/id/247870

European Union, 2023