Active Constraints Technologies in Neurosurgery for Ill-defined or Volatile Environments

Project Information

**ACTIVE**

- Grant agreement ID: 270460
- Closed project

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

**Total cost**
€ 7 620 767,00

**EU contribution**
€ 5 778 000,00

**Coordinated by**
POLITECNICO DI MILANO

**Start date**
1 April 2011

**End date**
31 March 2015

Project description

Cognitive Systems and Robotics

Active Constraints Technologies in Neurosurgery for Ill-defined or Volatile Environments

The **ACTIVE** project exploits **ICT** and other **engineering** methods and technologies for the design and development of an integrated redundant robotic platform for **neurosurgery**. A light and agile redundant **robotic cell** with 20 degrees-of-freedom (DoFs) and an advanced **processing unit** for pre- and intra-operative control will operate both **autonomously** and **cooperatively** with surgical staff on the brain, a loosely structured environment.
Fields of science

- Engineering and technology > electrical engineering, electronic engineering, information engineering > electronic engineering > control systems
- Engineering and technology > electrical engineering, electronic engineering, information engineering > electronic engineering > sensors > optical sensors
- Engineering and technology > electrical engineering, electronic engineering, information engineering > electronic engineering > robotics
- Natural sciences > computer and information sciences > artificial intelligence > machine 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-2009-6

See other projects for this call

Funding Scheme

CP - Collaborative project (generic)

Coordinator Contact

Coordinator

POLITECNICO DI MILANO
Participants (18)

**Force Dimension s.a.r.l.**
Switzerland
EU contribution
€ 420 000,00

Address
Route saint cergue 295
1260 Nyon

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

Administrative Contact
Patrick Helmer (Dr.)

Links
Contact the organisation
EU contribution
€380,000,00

Address
Trippstadter strasse 122
67663 Kaiserslautern

Region
Rheinland-Pfalz > Rheinhessen-Pfalz > Kaiserslautern, Kreisfreie Stadt

Activity type
Research Organisations

Administrative Contact
Walter Olthoff (Dr.)

Links
Contact the organisation  Website

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TECHNISCHE UNIVERSITAET MUENCHEN

Germany
EU contribution
€361,000,00

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Arcisstrasse 21
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Bayern > Oberbayern > München, Kreisfreie Stadt

Administrative Contact
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KUKA DEUTSCHLAND GMBH

Germany
EU contribution
€0,00
KUKA Laboratories GmbH

Germany

EU contribution

€ 0,00

Address

Zugspitzstrasse 140
86165 Augsburg

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KARLSRUHER INSTITUT FUER TECHNOLOGIE

Germany

EU contribution

€ 587 000,00

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76131 Karlsruhe
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Baden-Württemberg > Karlsruhe > Karlsruhe, Stadtkreis
Administrative Contact
Heinz Woern (Prof.)
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Renishaw (Ireland) Ltd
Ireland
EU contribution
€ 66 000,00
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Swords business park
GL128JR Dublin
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Ireland > Eastern and Midland > Dublin
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Administrative Contact
Mathew Stratton (Mr.)
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THE FOUNDATION FOR MEDICAL RESEARCH INFRASTRUCTURAL DEVELOPMENT AND HEALTH SERVICES NEXT TO THE MEDICAL CENTER
TEL AVIV
Israel
EU contribution
€ 244 000,00
Address
Weizmann street 6
64239 Tel aviv

Administrative Contact
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TECHNION - ISRAEL INSTITUTE OF TECHNOLOGY

Israel

EU contribution
€ 390,000.00

Address
Senate building technion city
32000 Haifa

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CF CONSULTING FINANZIAMENTI UNIONE EUROPEA SRL

Italy

EU contribution
€ 138,428.00

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FONDAZIONE ISTITUTO ITALIANO DI TECNOLOGIA

Italy
EU contribution
€ 297 000,00

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CONSIGLIO NAZIONALE DELLE RICERCHE

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EU contribution
€ 856 993,00

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Piazzale aldo moro 7
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FONDAZIONE IRCCS ISTITUTO NEUROLOGICO CARLO BESTA
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€ 308 125,00
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Activity type
Research Organisations
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MEDIMATON LIMITED
United Kingdom
EU contribution
€ 98 000,00
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Candlemas lane 49
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IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

United Kingdom
EU contribution
€ 779 000,00

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South kensington campus exhibition road
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AZIENDA OSPEDALIERA SAN PAOLO

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EU contribution
€ 0,00

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Last update: 1 August 2019

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