Intelligent Surgical Robotics

Fact Sheet

Project Information

I-SUR

Grant agreement ID: 270396

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

Total cost
€ 4 410 581,00

EU contribution
€ 2 980 000,00

Coordinated by
UNIVERSITA DEGLI STUDI DI VERONA

Start date
1 March 2011

End date
31 December 2014

Closed project

Italy

Project description

Cognitive Systems and Robotics

I-SUR will develop advanced technologies for automation in minimally invasive and open surgery. Currently, automation is not used in the operating room for a number of technical and legal reasons, but it may provide a solution to improve performance and efficiency without increasing operating costs. I-SUR aims at breaking new ground in automation in surgical intervention, in particular design of robotic surgical instruments, task modeling and control in highly uncertain and variable environments, medical situation awareness and its interaction with task control, surgeon-robot communication, and legal barrier identification. The project
will demonstrate that an autonomous robotic surgical action, carried out with the developed technologies, can be as safe as currently achievable by traditional surgery.

Fields of science

social sciences > sociology > industrial relations > automation
engineering and technology > electrical engineering, electronic engineering, information engineering > electronic engineering > robotics > autonomous robots
medical and health sciences > clinical medicine > surgery > surgical procedures

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

UNIVERSITA DEGLI STUDI DI VERONA
Participants (8)

EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH

Switzerland
EU contribution
€ 544 440,00
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Raemistrasse 101
8092 Zuerich
Region
Schweiz/Suisse/Svizzera > Zürich > Zürich
Administrative Contact
Roger Gassert (Prof.)
Links
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TALLINNA TEHNIKAÜLIKOOL
Estonia
EU contribution
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Address
Ehitajate tee 5
12616 Tallinn
Region
Eesti > Eesti > Põhja-Eesti
Activity type
Higher or Secondary Education Establishments
Administrative Contact
Maarja Kruusmaa (Prof.)
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FONDAZIONE CENTRO SAN RAFFAEL DEL MONTE TABOR
Italy
EU contribution
€ 55 170,00
Address
Via olgettina 60
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Region
Nord-Ovest > Lombardia > Milano
Activity type
Research Organisations
Administrative Contact
Mario Valsecchi (Mr.)
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FONDAZIONE CENTRO SAN RAFFAELE

Italy
EU contribution
€ 354 580,00

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Activity type
Research Organisations

Administrative Contact
Maria Rosa Pedrazzi (Dr.)

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OSLO UNIVERSITETSSYKEHUS HF

Norway
EU contribution
€ 500 000,00

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YEDITEPE UNIVERSITY VAKIF

Türkiye
EU contribution
€ 335 420,00

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İstanbul > İstanbul > İstanbul

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OSPEDALE SAN RAFFAELLE SRL
Italy

EU contribution
€ 54 450,00

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UNIVERSITETET I OSLO
Norway

EU contribution
€ 91 400,00

Address
Last update: 25 May 2022

Permalink: https://cordis.europa.eu/project/id/270396

European Union, 2023