I am one of the results of the IST-FP6-004370 project Robotcub

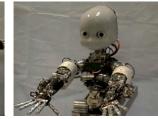
that's me

Robotcub project participants











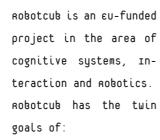












- (1) creating a new advanced humanoid robot - the icub - to support community research on embodied cognition.
- (2) advancing our understanding of several key issues in cognition by exploiting the icub platform in the investigation of cognitive capabilities.

icub is a full-fledged humanoid robot "child" with sophisticate motor skills and several sources of sensory information including vision, sound, touch, proprioception, and vestibular.

name	main expertise in project	conctact
university of genova – LIRA-Lab, dipartimento di Informatica, sistemistica e Telematica – genova – Italy	cognitive Humanoid Robotics vision and Manipulation	pavid vernon giulio sandini giorgio metta
ıtalian ınstitute of тесhnology - genova - ıtaly	robotics, cognitive architecture	giulio sandini giorgio metta
scuola superiore s. anna — arтs Lab — pisa — ɪtaly	яовотісs and месhatronics маnipulation наrdware	paolo Dario
university of uppsala – pepartment of psychology uppsala – sweden	cognitive development of manipulation skills in babies	claes von Hofsten
university of zurich – artificial intelligence Lab, pepartment of information technology zurich – switzerland	cognitive Robotics Audition and Touch	nolf pfeifer
university of rerrara – pepartment of вiomedical science – ниman physiology –rerrara - ɪtaly	Physiology of manipulation control in humans.	Luciano radiga
university of Hertfordshire – pepartment of computer science - united kingdom	cognitive mehavior and Interaction	кеrstin pautenhahn
ɪsτ Lisbon - computer vision and ποbotics Lab Lisbon - portugal	cognitive mobotics eyehead coordination	jose santos-victor
university of sheffield - automatic control and systems engineering pept.	Robotics - control systems	john Grey
ecole polytechnique rederal de Lausanne - nutonomous systems Lab Lausanne - switzerland	cognitive sehavior and interaction, Locomotion	Aude Billard
теlerobot s.r.l genova - Italy	месhanical design and prototype manufacture	rrancesco вессhi





Italian Institute of Technology

who am i?

I am a humanoid robot, my name is icub.I am able to crawl on all fours and sit up. my hands have many joints and I am learning to manipulate objects very skillfully (like a man-cub). my head and eyes are fully articulated and I can direct my attention to things that I like. I can also listen with my ears and feel with my fingertips and I have a sense of balance. At the moment I can do simple things but my human friends are teaching me and my brothers something new every day (we are becoming an international family!).



"open source"

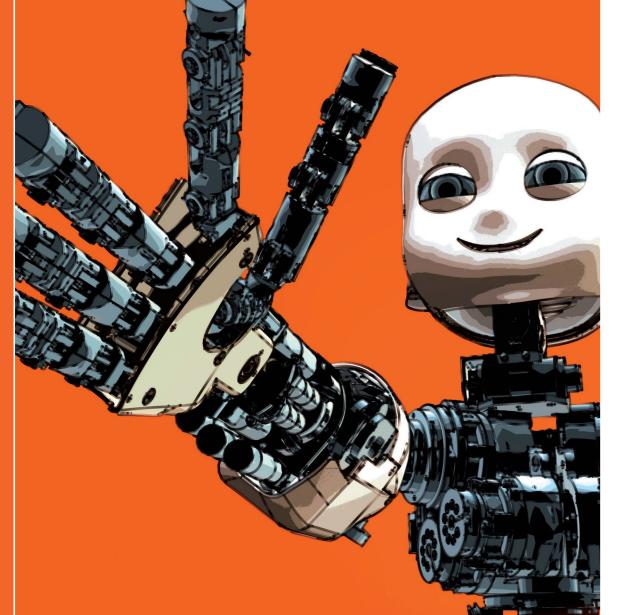
"open call"

RobotCub.org

53 joints mainly distributed in the upper part of the body

104 cm tall in only 22kg of weight

the size of a three and a half years old child



Robotcub

is a "success story" which led

the consortium through 4 years of continuous and intense collaboration among 10 partners

with background ranging from neurophysiology to engineering in the development of innovative technology (every component of the icub has been specifically designed or customised) and cutting-edge science.

our technology is distributed openly following a GPL license. There is an important component devoted to the support of the open nature of the icub by establishing an international research and training facility in genoa at the Italian Institute of Technology. In addition to updating the icub design, it will maintain at least three complete icubs to allow scientists from around the world to use it for experimental research before committing to building their own icub. The research and training facility will also provide a programme of training courses for scientists and students on building, using, and developing the icub cognitive capabilities.

To help researchers get their own copy of the icub, the nobotcub project has launched an open call.

six successful proposers have been awarded with a complete icub "kit" free of charge

six successful proposers have been awarded with a complete icub "kit" free of charge. These robots will be available to research centers in Europe. Additional robots will be built as part of other IST FP7 projects and we are negotiating several requests also from us and Japan.

The icub middleware and, in general,
some of its technology
is now used worldwide
even outside the original domain of humanoid robotics. A lively community of users
is actively contributing to the first complete open source humanoid design.