

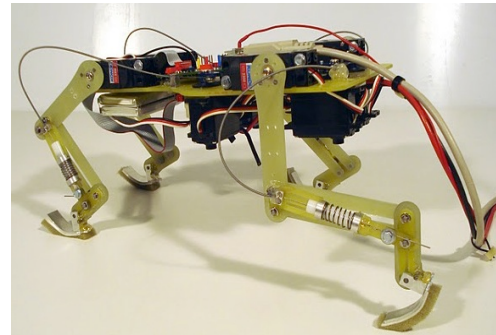
Adaptive Modular Architectures for Rich Motor Skills



from biology



Cognitive Systems, Interaction, Robotics



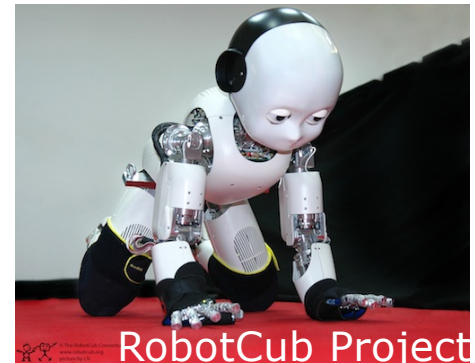
Information and Communication Technologies

March 2010 - February 2014

Research packages

- Human Motor Primitives
- Compliant Systems
- Morphological Computation
- Adaptive Modules
- Learning
- Control Architectures
- Robotic Experimentation

to robots



Open source outcomes

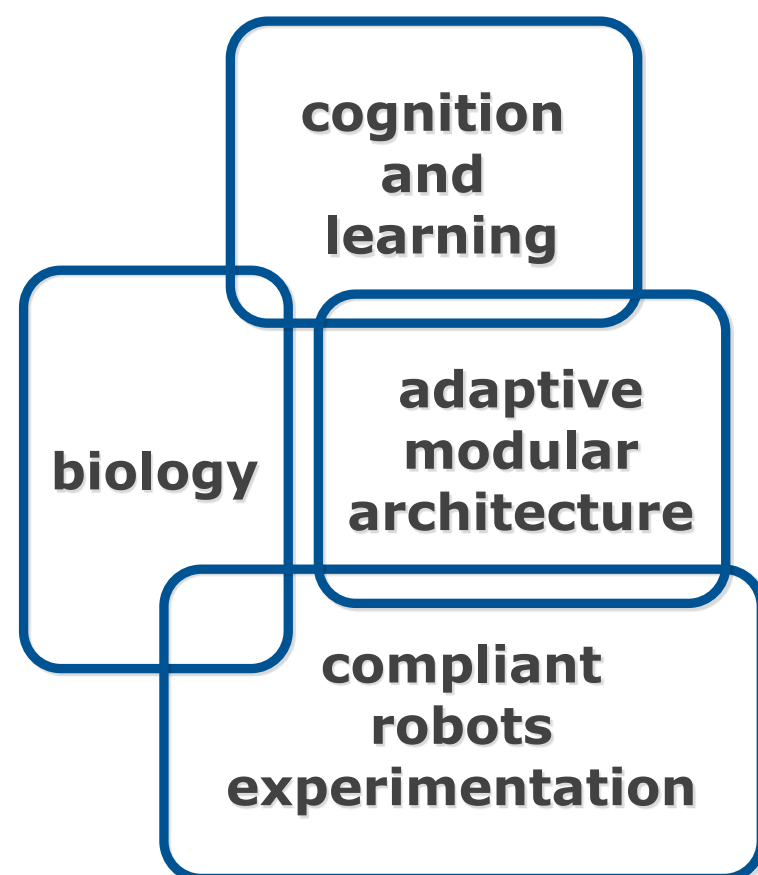
- Quadruped robot
- Compliant extension to iCub
- Software for learning architectures

Objectives

- Qualitative jump in robotic motor skills
- Compliant motion and morphological computation
- Learning and adaptation within modules
- Robotic experimentation in real world scenarios

Impact

- **Rich motor skills and compliance will enable robots to blend seamlessly in our society. Robots will help and interact with people in everyday tasks moving naturally and safely.**



<http://www.amarsi-project.eu>