Adaptive Modular Architectures for Rich Motor Skills

AMARSi

Information and Communication Technologies

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Research packages

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

Open source outcomes

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

From biology to robots

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