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Research Interests

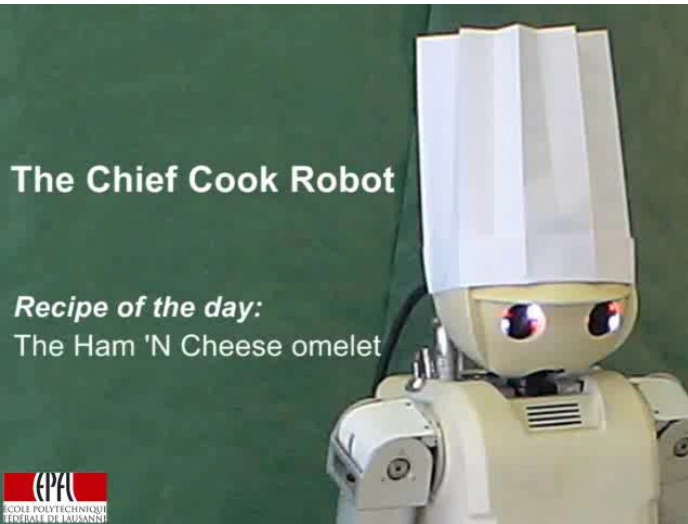
Provide robots with the ability to learn through
human guidance and *autonomously*

Probabilistic approaches to
programming by demonstration,
sensor fusion and
reinforcement learning

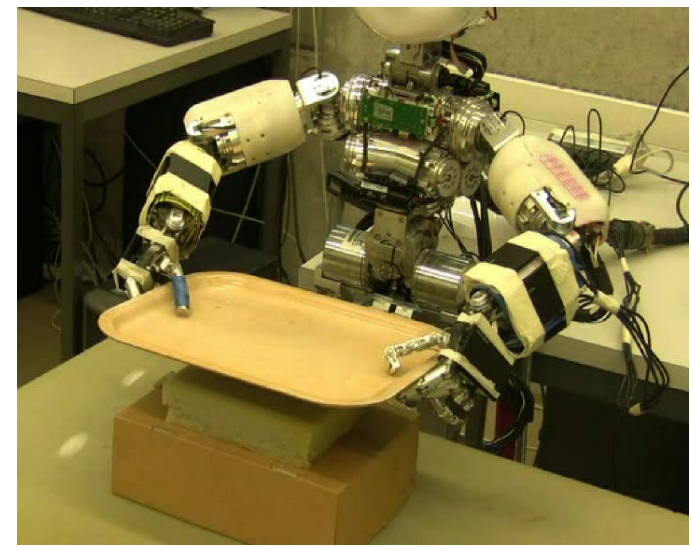
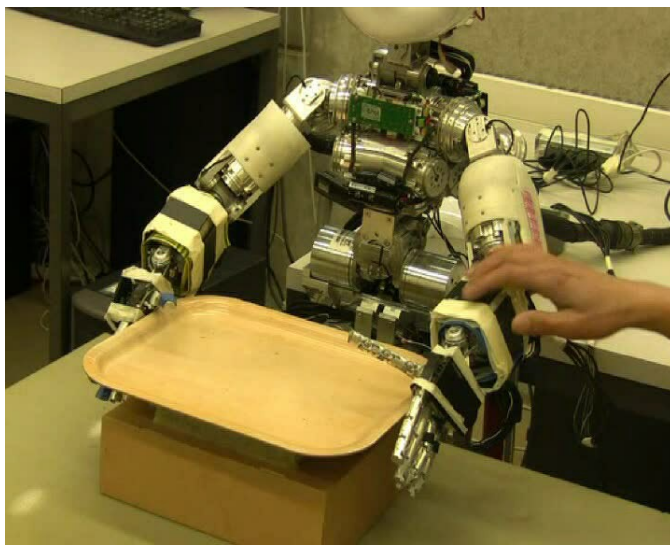
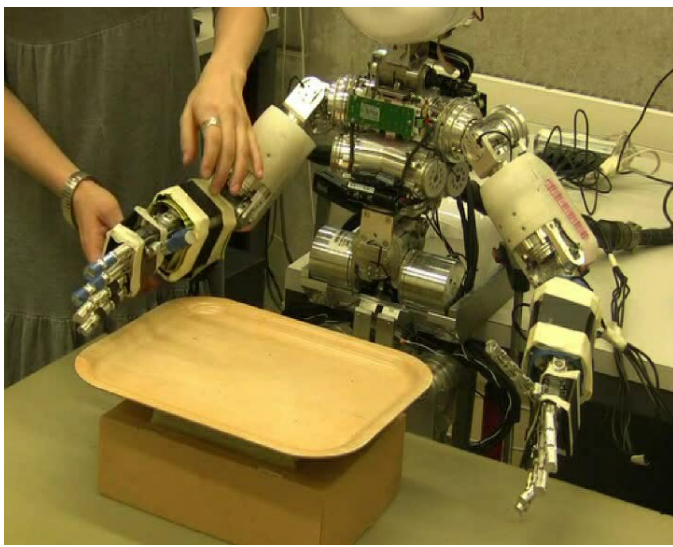
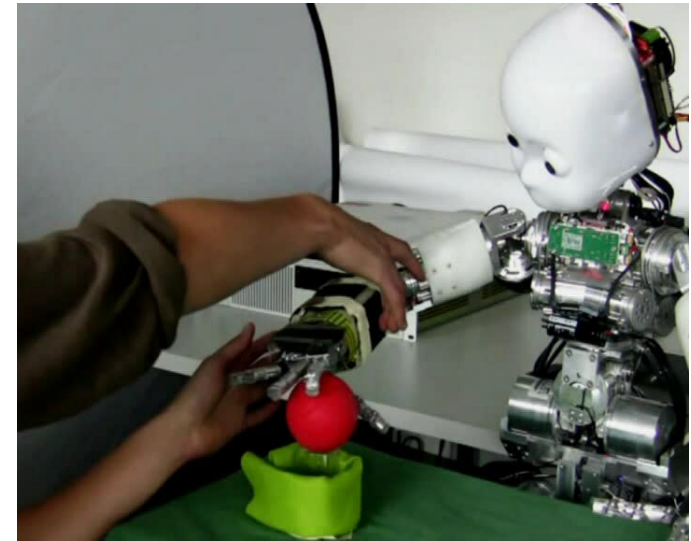
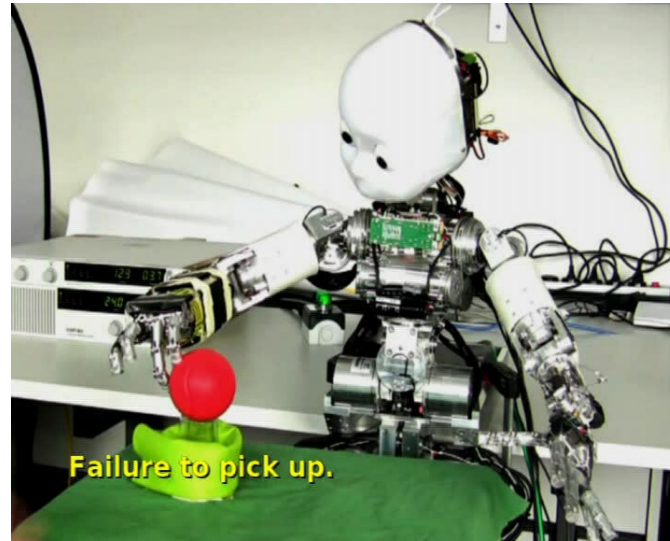
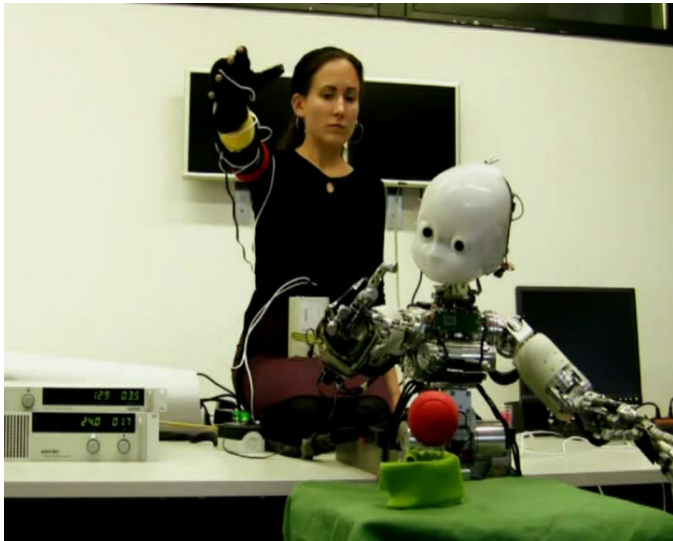
Human-robot interaction

Kinesthetic teaching and task generalization

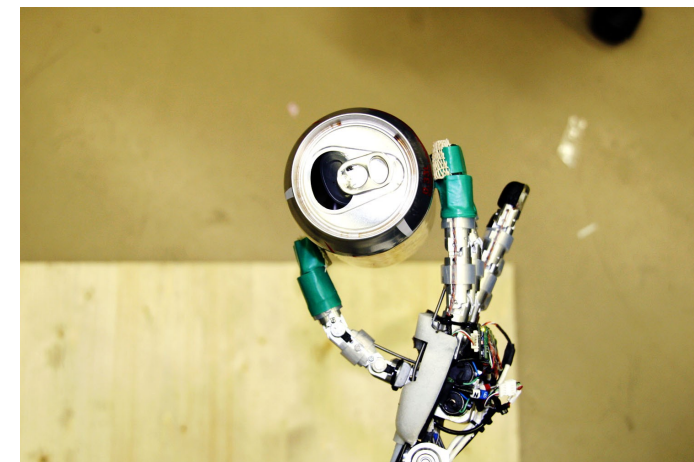
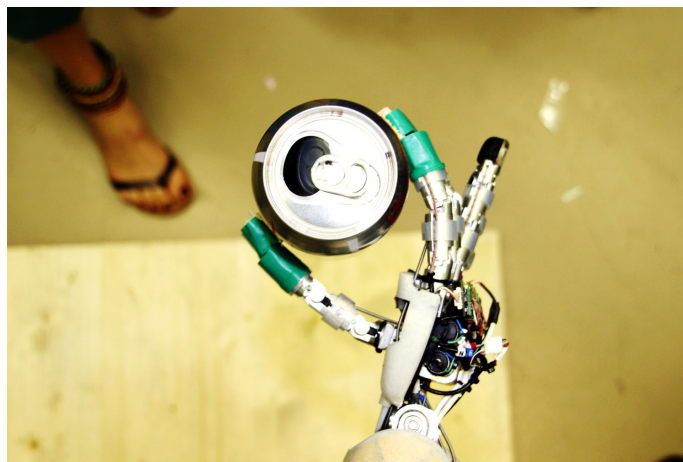
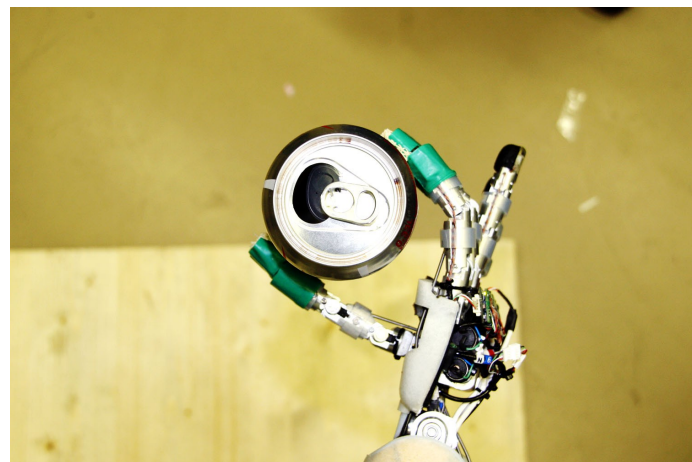
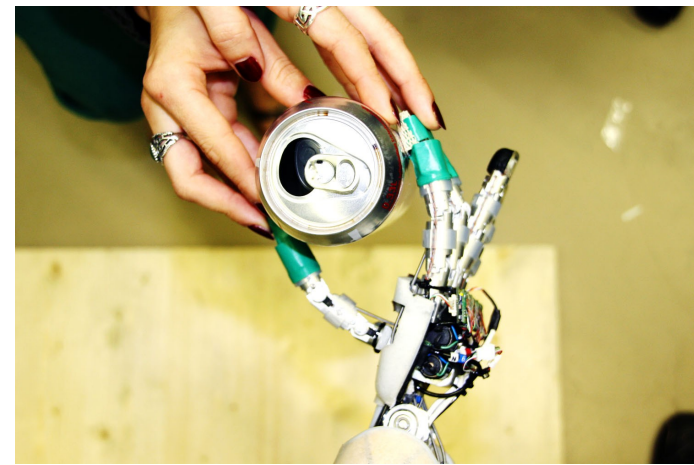
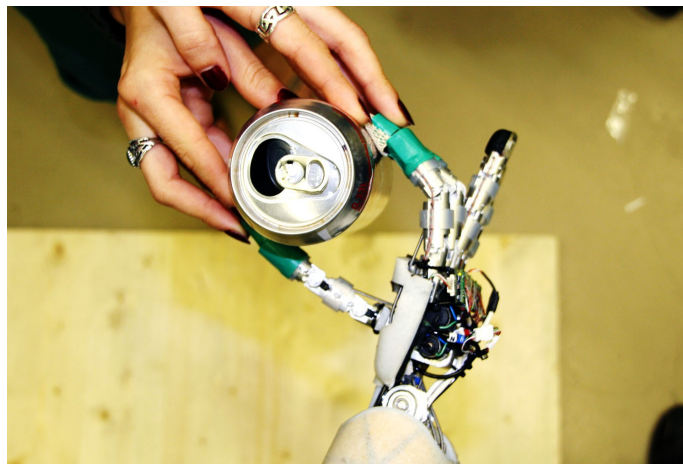
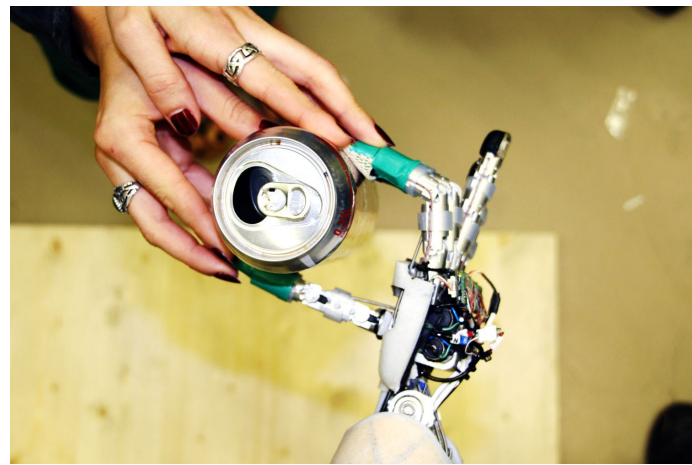
Teaching to make an omelet



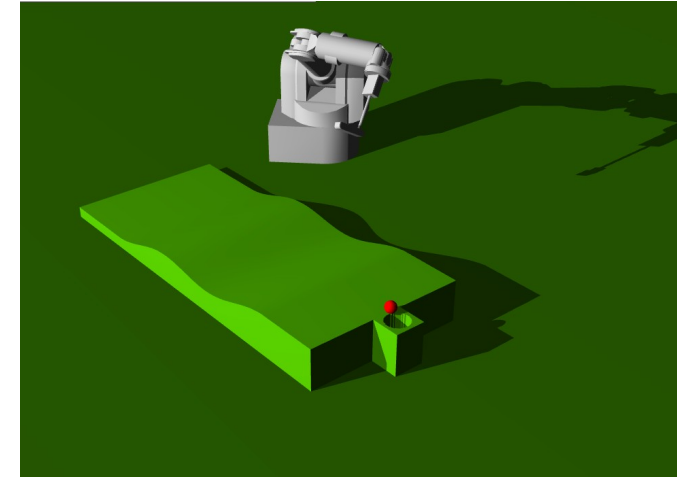
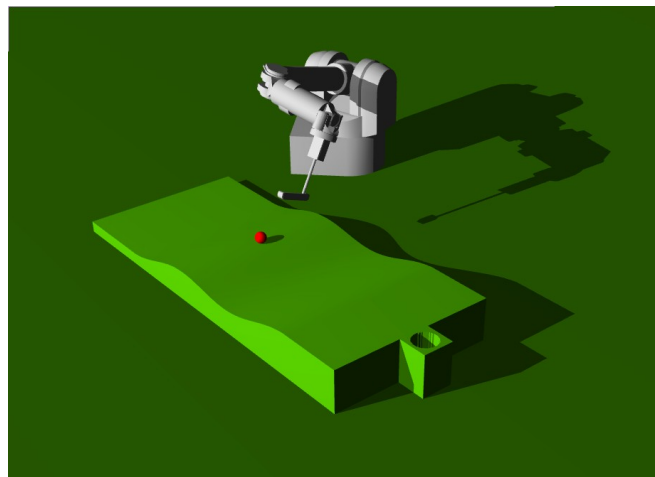
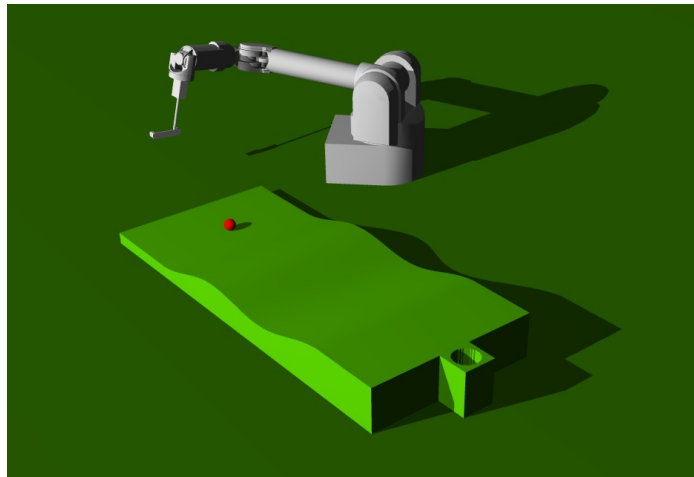
Iterative teaching: *Demonstrations, corrections, reuse*



Teaching to maintain a grasp by tactile sensing



PnP simulator for the WAM arm



Entertainment robotics

Robots can be fun as well!

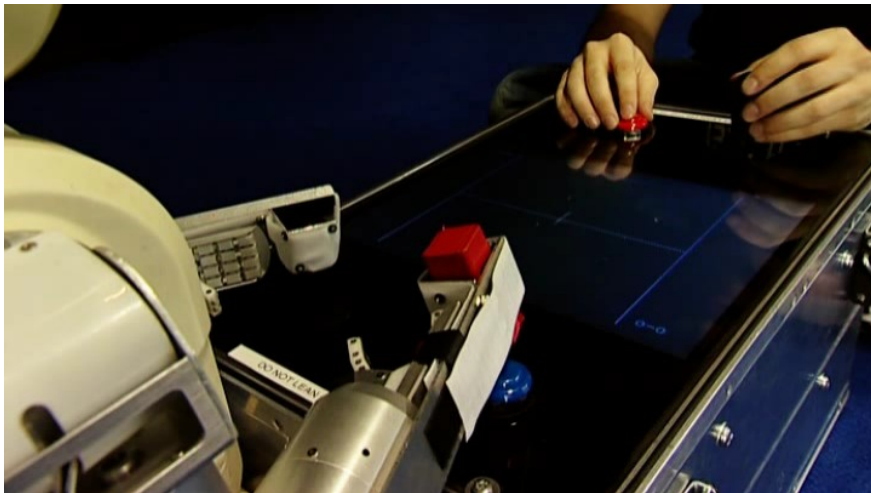
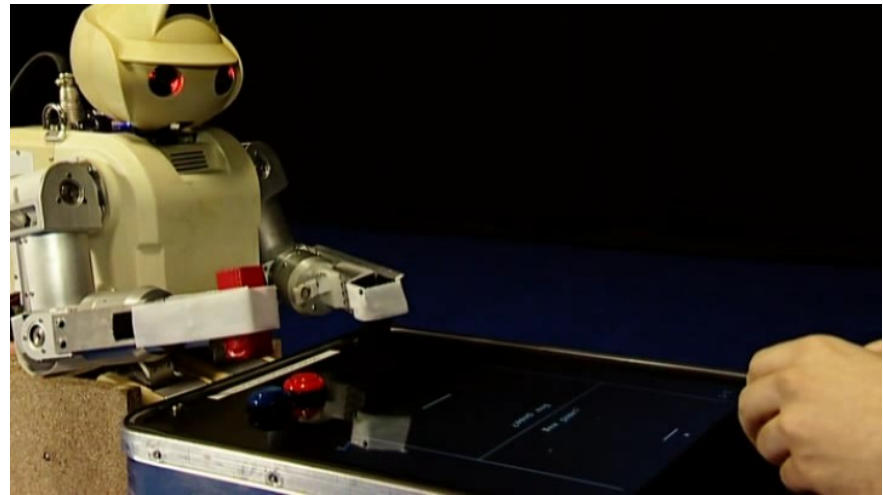
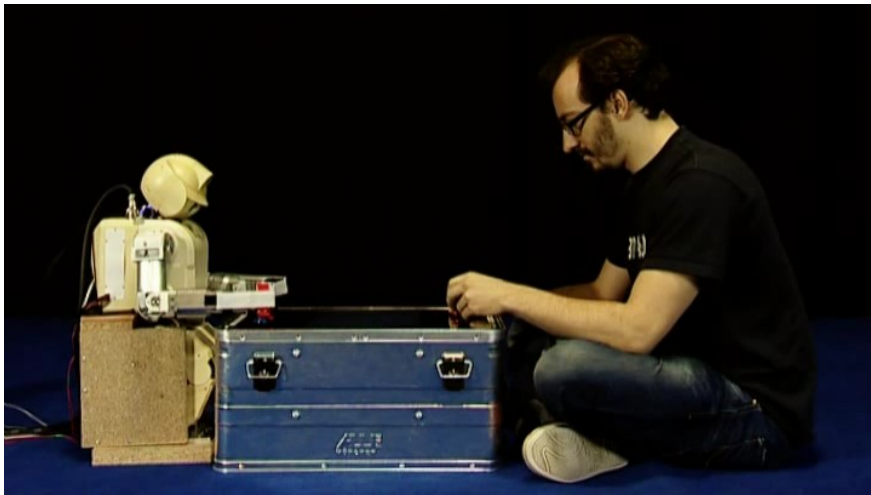
Salvador DaBot, the portraitist



Entertainment robotics

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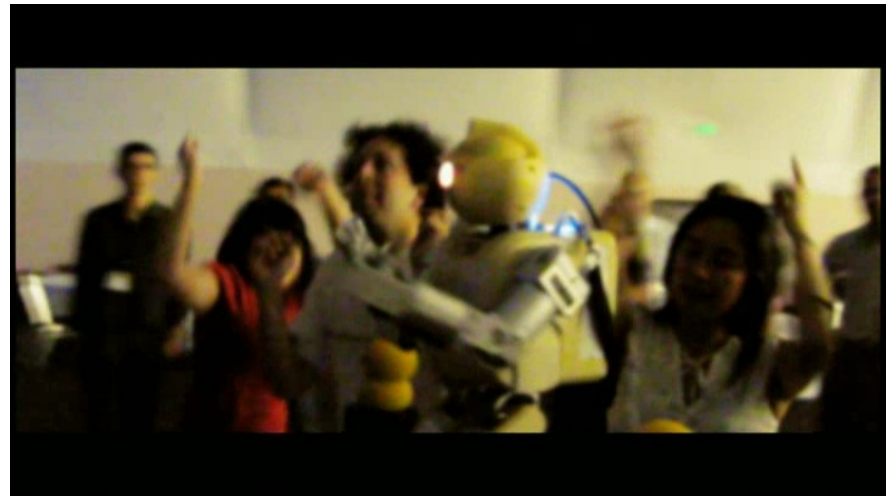
The Pong Robot



Entertainment robotics

Robots can be fun as well!

Yet another dancing robot



Thank you!

Fore more...

lasa.epfl.ch
www.sauser.org