

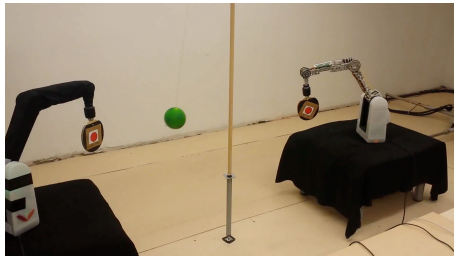
Multiobjective Reinforcement Learning (MORL) on Tetherball BioRob



CONFLICTING OBJECTIVES, e.g.:

- ▶ *Safety*: smooth and low torque movements,
- ▶ *Performance*: quickly send the ball to the opponent.

MORL: find the set of policies representing the best compromises among the objectives.



MOTIVATION: novel promising MORL policy gradient algorithms have been proposed but not tested on real robots yet.

GOALS: study and application of such algorithms, find their limitations and propose a way to overcome them.