Machine learning of plan robustness knowledge about instances

WHY?

Our future goal is to build a system:

 Able to act in uncertain domains, as Reinforcement Learning does

· With a representation of the action model richer than Reinforcement Learning, as deliberative planning

Able to deal with large state spaces domains

We have developed an architecture that:

· Gradually and automatically acquires knowledge about the objects behavior in the real world repeating cycles of planning, execution and learning, as it is commonly done in most real world planning situations by humans.

WHAT?

· Learns knowledge about which actions are the most Robust in the real world

 The system uses this knowledge as control knowledge to prefer the more robust actions in future planning.

