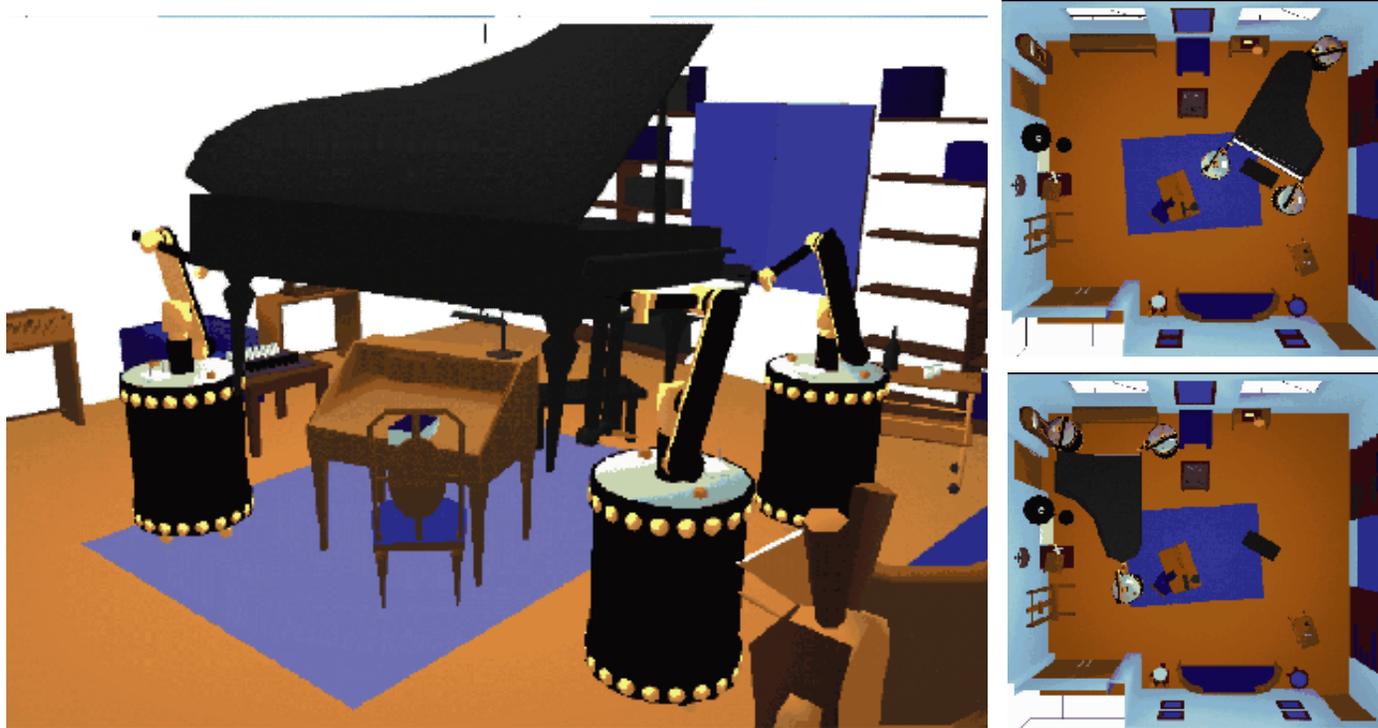


Introduction

Core robotics problems

Core problems: Navigation and motion planning

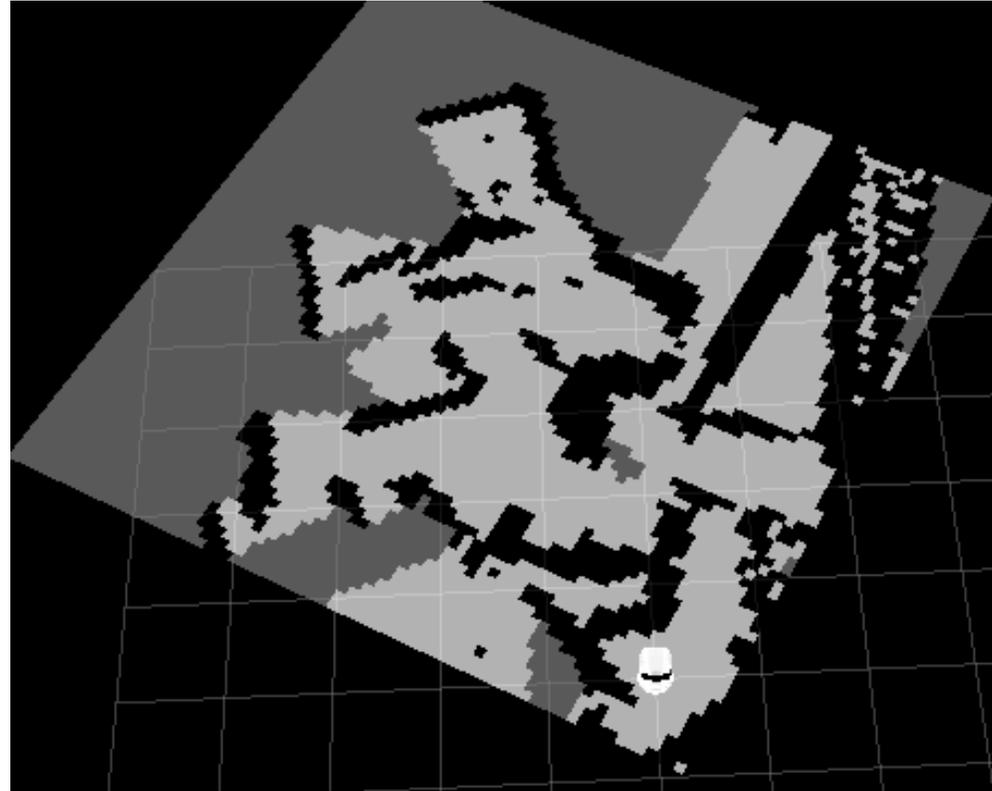
Get from here to there.



[J. Cortes, *Institut National Polytechnique de Toulouse*]

Core problems: Localization and mapping

Where am I? What is around me?



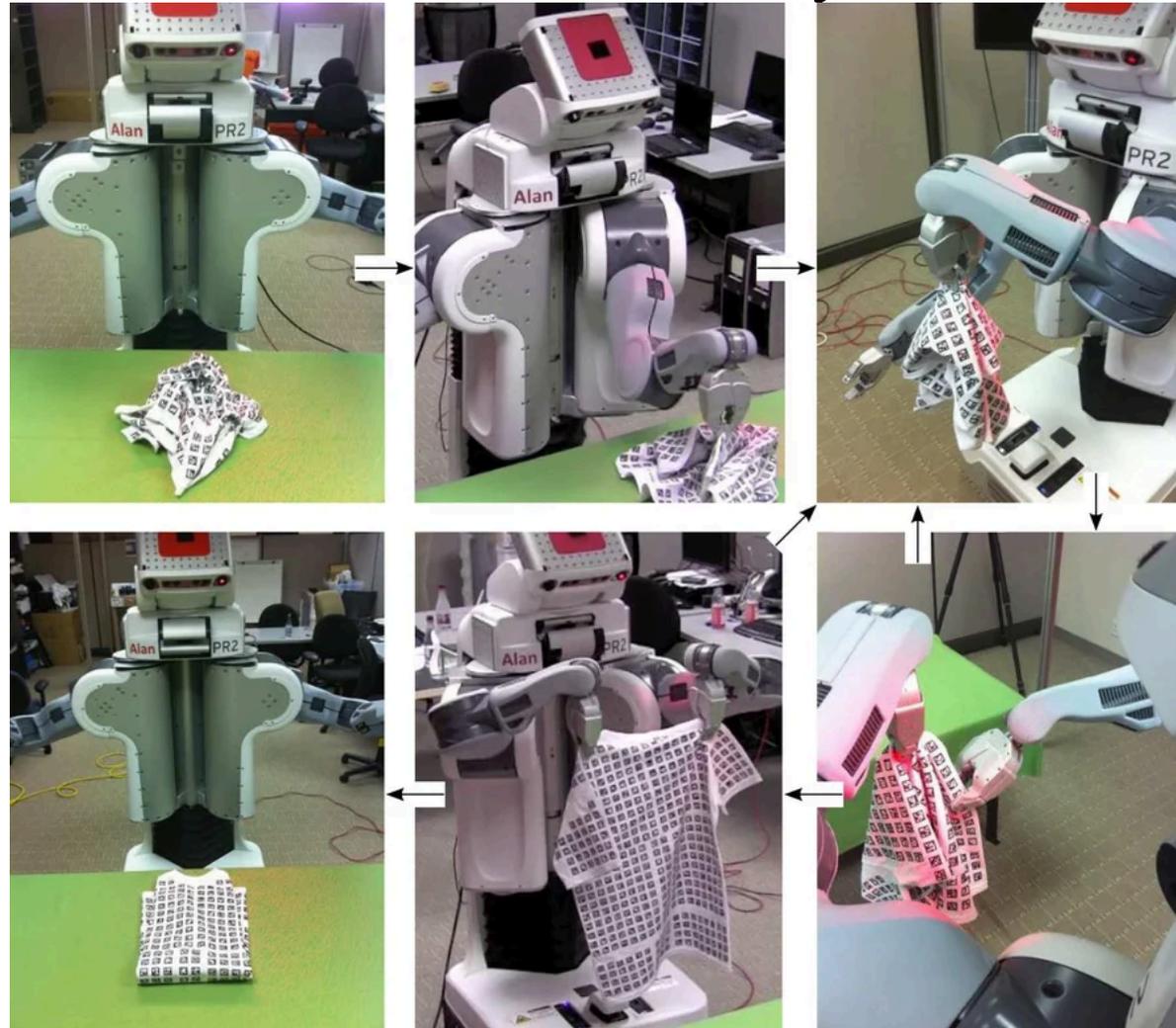
Core problems: Localization and mapping

Where am I? What is around me?



Core problems: Manipulation

Grasp, transport, assemble, or disassemble objects in the environment.



Core problems: Exploration and coverage

Move to see or touch everything in the environment.

