

SFB/TR 8 Spatial Cognition / IQN Video Conference

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The Capability Map for Robot Arms and Applications

Humans have an abstraction of the capabilities of their arms in the workspace, i.e. which regions can be reached from which directions. A similar abstraction for a robot arm is important for grasp planners, path planners and task planners. It can be used to find good goal configurations for a robot arm or help to generate reachable grasps. The capability map, a compact representation of this kinematic reachability and directional structure information is presented. The example of positioning a mobile manipulator for constrained linear trajectories demonstrates the use of the capability map in a planning problem.

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informelle Kaffeerunde: 15:15
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