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Configuration Space



CJ Taylor

Welcome to Week 2! In this module, we begin by introducing the concept of configuration space which is a

▼ More

Configuration Space Applications



2.1: Introduction to Configuration Space 4 min

(</learn/robotics-motion-planning/lecture/0auld/2-1-introduction-to-configuration-space>)



2.2: RR arm 2 min

(</learn/robotics-motion-planning/lecture/mNhWs/2-2-rr-arm>)



2.3: Piano Mover's

Help Center

**Problem** 3 min

(/learn/robotics-motion-planning/lecture/Yh5fc/2-3-piano-movers-problem)

**Setting Up your MATLAB Environment**

(/learn/robotics-motion-planning/supplement/E7Hk2/setting-up-your-matlab-environment)

Path Planning in Configuration Space

**2.4: Visibility Graph** 3 min

(/learn/robotics-motion-planning/lecture/e1iaQ/2-4-visibility-graph)

**2.5: Trapezoidal Decomposition** 1 min

(/learn/robotics-motion-planning/lecture/KQQGu/2-5-trapezoidal-decomposition)

**2.6: Collision Detection and Freespace Sampling Methods** 5 min

(/learn/robotics-motion-planning/lecture/v8M8j/2-6-collision-detection-and-freespace-sampling-methods)

**Quiz: Configuration Space** 4 questions

(/learn/robotics-motion-planning/exam/dYQsq/configuration-space)

**Assignment: Configuration Space** 3h 00m

(/learn/robotics-motion-planning/programming/BBYLi/configuration-space)