Homework of Motion Planning for Mobile Robots

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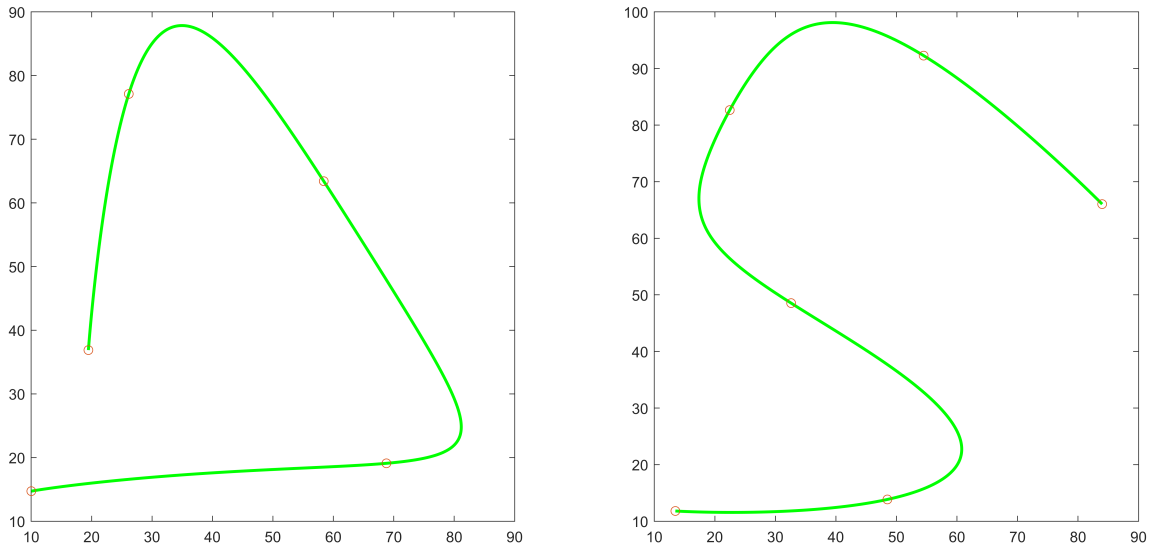
Abstract

Minimum Snap Trajectory Generation.

Keywords: Trajectory Generation

1. MATLAB



(a) hw 1.1 **(b)** hw 1.2

Figure 1: path

2. ROS

Simple C++ wrapper for osqp library: https://github.com/robotology/osqp-eigen.git.

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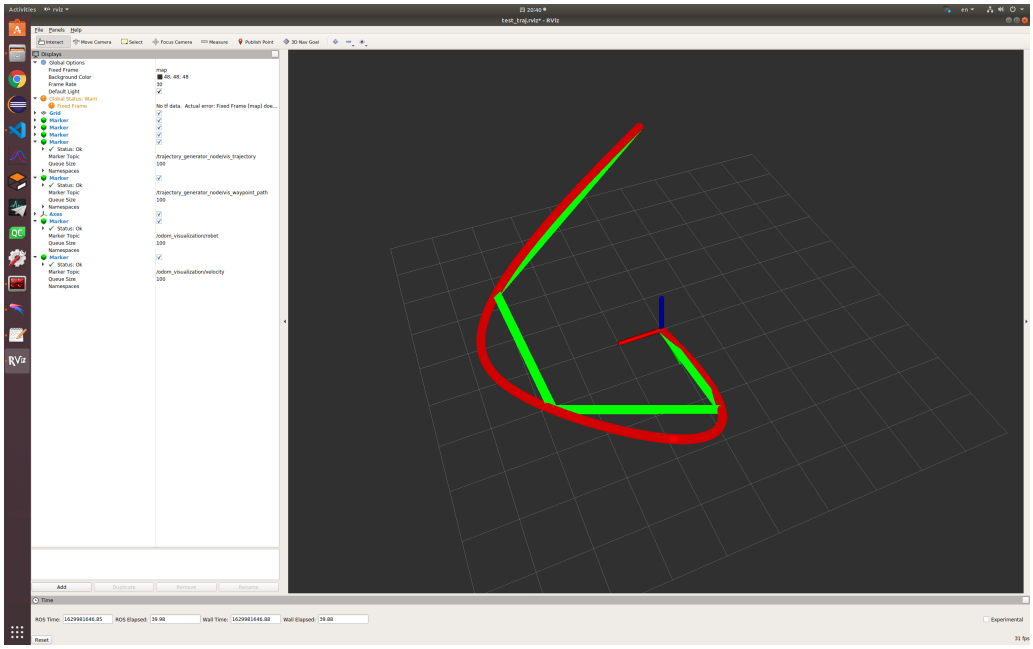
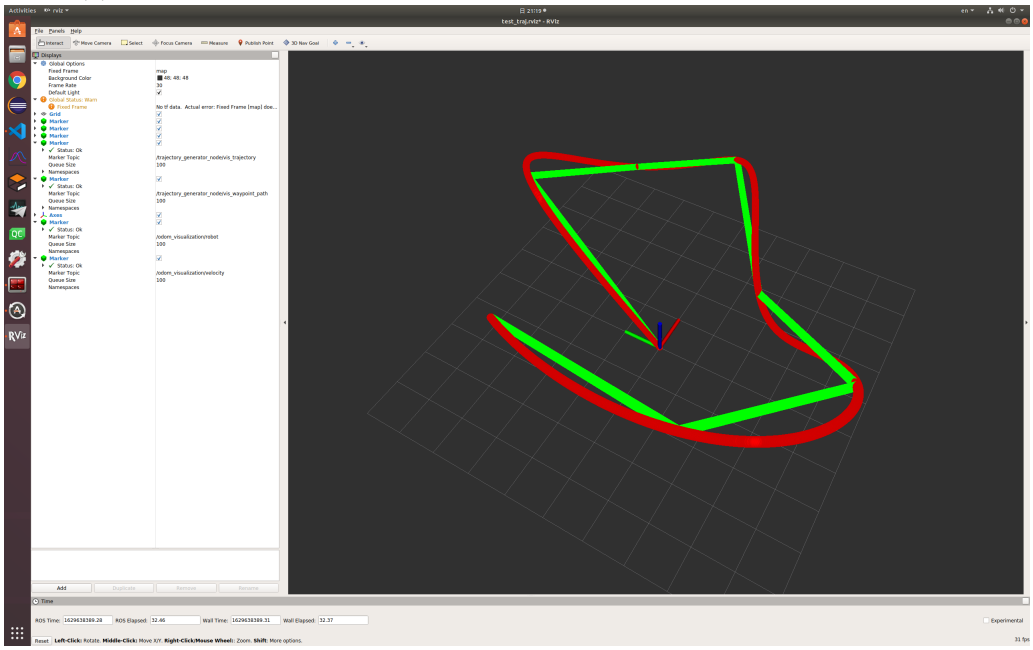


(a) hw 2.1 use OSQP to sovle the QP problem of Minimum Snap Trajectory Generation



(b) hw 2.2 Closed-form Solution Solution to Minimum Snap

Figure 2: path