

ROS2 for Robot Mapping and Navigation

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July 7, 2019

Abstract

This guide gives an overview of ROS2 status with an example of SLAM implementation. ROS2 is an upgrade after one decade since the introduction of ROS (Robotic Operating System) and is still under heavy development at this moment as June 2019. In this guide, we discuss and evaluate some of its new features by implementing SLAM in ROS2 in simulation and on a real robot. These new features are briefly introduced and some are tested in this implementation. A demo with source code is provided in the end of the paper.

I Introduction

This is time for all good men to come to the aid of their party!

Outline The remainder of this article is organized as follows. Section ?? gives account of previous work. Our new and exciting results are described in Section IV. Finally, Section V gives the conclusions.

II Related Work

A much longer L^AT_EX 2_ε example was written by Gil [?].

III Method

IV Results

In this section we describe the results.

V Conclusions

We worked hard, and achieved very little.

VI Reference